

Academic Health Center Shared

2-565 Moos Tower

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: Beniak MPH, Judith Anne
Description: Student may contact the instructor or department for information.

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: Kachgal, Mera
Description: This Web-based, one credit course is for undergraduate students who are exploring health majors and professions. Students will have the opportunity to reflect on their own values, skills and interests. You will learn more about the academic and experiential requirements for health professional schools at the University. Activities will include interest inventories, discussion, journaling, developing an action plan, and other reflective assignments. This course will help you decide if a career in the health professions is a good fit for you.
Style: 100% Web Based.
Grading: 33% quizzes, 33% reflection paper, 33% other evaluation.
Exam Format: multiple choice, matching, true/false, and short answer

AHS 1102 Orientation to Health Careers

OPT No Aud, 1 credit(s); Credit will not be granted if credit has been received for: AHS 1101;
Instructor: Simpson, Scott W
Description: This Web-based, one credit course is for undergraduate students who are exploring health majors and professions. Students will have the opportunity to reflect on their own values, skills and interests. You will learn more about the academic and experiential requirements for health professional schools at the University. Activities will include interest inventories, discussion, journaling, developing an action plan, and other reflective assignments. This course will help you decide if a career in the health professions is a good fit for you.
Style: 100% Web Based.
Grading: 33% quizzes, 33% reflection paper, 33% other evaluation.

AHS 1600 The Future Physician I: Medicine in the 21st Century

A-F only, 1 credit(s); prereq instr consent ;
Instructor: Todd, Tricia
Description: Student may contact the instructor or department for information.

AHS 1602 The Future Physician II: Experiences in Health

2 credit(s); prereq 1601, instr consent ;
Instructor: Todd, Tricia
Description: Student may contact the instructor or department for information.

AHS 2300 Orientation to Clinical Research

A-F only, 1 credit(s); prereq instr consent , [referral from UMTC academic adviser or faculty member], interview, application essay, GPA of at least 3.50;
Instructor: Kachgal, Mera

Description: This seminar course is intended for pre-health students who are exploring careers in clinical research. Course topics will include an introduction to the field of clinical research, ethical conduct and professionalism, and clinical research methods pertinent to dentistry, medicine, public health, pharmacy, and nursing. In addition to biweekly lectures, students will participate in a supervised field experience in which they observe clinical research practices. In addition, students will develop a clinical research proposal for the Undergraduate Research Opportunity Program (UROP).

AHS 2707H Global Health Challenges for Future Health Professionals

A-F only, 2 credit(s), max credits 8, 4 completions allowed;
Instructor: Todd, Tricia

Description: This is a two-credit course designed for freshman and sophomore students in the University Honors Program who have an interest in learning more about emerging health issues and the challenges and opportunities health professionals have as they work to address those health issues. You will hear from researchers, faculty, and practicing health professionals who are wrestling with the challenges to human and animal health and how those challenges are tied to the changing expectations and responsibilities of health professionals. The increasing, changing and expanding challenges to human health will require more broadly and highly trained health professionals in the future. This course will help you understand what you need to prepare for, and how to begin that preparation. This course is intended for freshman/sophomore students. Questions, contact the University Honors Program.

AHS 4300 Directed Study

1-3 credit(s), max credits 6; prereq instr consent ;
Instructor: Todd, Tricia

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

Accounting

3-122 CarlSMgmt

ACCT 2050 Introduction to Financial Reporting

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

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

ACCT 2050 Introduction to Financial Reporting

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

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

ACCT 2050 Introduction to Financial Reporting

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

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

ACCT 2050 Introduction to Financial Reporting

A-F only, 4 credit(s); prereq Soph; Credit will not be granted if credit has been received for: APEC 1251;
Instructor: Biondich, Nick 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. There are many reasons why students study accounting. For example, you may have taken an accounting or bookkeeping course in high school and discovered that you were interested in the subject. Or, you may be planning to pursue a career in business and are required to take accounting as a part of your degree or certificate. Or, perhaps you are enrolled in the course because of curiosity, to understand why your employer, parents, or friends keep suggesting that you take some accounting. In this course, you will learn --the nature of financial transactions; --the Generally Accepted Accounting Principles (GAAP) that businesses and nonprofit organizations in the United States 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. I will also work with you to help you understand why the discipline of accounting is so important. My hope is that by the end of the course, you will be able to say not only that you've learned a lot but also that you personally realize some value from the course, even if it is the only accounting course you plan to take. As you learn the fundamentals of accounting and its terminology, you will gradually discern many areas that will affect you throughout your life. Whenever your corporate employer describes its financial goals for the coming year, whenever you observe how the stock market reacted to a corporation's earnings information, 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. Course Outline Lesson 1: Uses of Accounting Information, the Basic Financial Statements, and Measuring Business Transactions Lesson 2: Measuring Business Income and Understanding the Accounting Information System Lesson 3: Financial Reporting and Analysis, Merchandising Operations, and Internal Control Lesson 4: Short-Term Financial Assets and Inventory Lesson 5: Midcourse Exam Lesson 6: Long-Term Assets Lesson 7: The Time Value of Money, Current Liabilities, and Long-Term Liabilities Lesson 8: Contributed Capital, the Corporate Income Statement, and the Statement of Stockholder's Equity Lesson 9: The Statement of Cash Flows Lesson 10: Advanced Topics Lesson 11: Financial Performance Evaluation Lesson 12: Final Exam Course Materials Needles, Belverd E., Jr. Financial Accounting, 8th ed. Packaged with Electronic Working Papers CD-ROM. Boston: Houghton Mifflin Co., 2004.

Style: 100% Web Based.

Grading: 30% mid exam, 35% final exam, 35% written homework.

Exam Format: --The 2 exams are supervised, in-person (not online)

ACCT 2050 Introduction to Financial Reporting

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

Instructor: Caliendo, Charles Michael

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

ACCT 2050 Introduction to Financial Reporting

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

Instructor: Peng, Xiaoxia

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

ACCT 2050 Introduction to Financial Reporting

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

Instructor: Zhang, Ivy Xiyang

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

ACCT 2050 Introduction to Financial Reporting

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

Instructor: Kim, Jae Bum

Description: Student may contact the instructor or department

for information.

ACCT 2050 Introduction to Financial Reporting

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

Instructor: Batina, Tom

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

ACCT 2050H Honors: Introduction to Financial Reporting

A-F only, 4 credit(s);

Instructor: White, Paul Andrew

Description: This course introduces the topic of financial accounting for U.S. organizations. The purpose of financial accounting is to provide information to owners of the firm and other interested parties to serve as the basis for making decisions about that firm. The student who successfully completes this class will be able to read and understand U.S. financial statements. This course is unusual in that it covers in one semester material that is more commonly covered in two semester courses or one and a half semester courses. The benefit to this is that the student can get a lot of education for the time and tuition dollar. Also, packing the introductory accounting into one semester frees up time and credit hours that can be used on elective courses. The cost to the student is obvious; this course moves quickly and you must be willing to put in extra time and effort in order to take advantage of this saving. The purpose of this class is to introduce accounting, which is both the language of business and its primary information system. The learning goal is that students be able to read and understand U.S. financial statements. By the end of the course, the student should be able to prepare basic financial statements including the cash flow statement and to read and interpret annual financial reports.

Style: 50% Lecture, 20% Discussion, 30% Small Group Activities.

Grading: 40% mid exam, 20% final exam, 8% special projects, 16% quizzes, 3% written homework, 13% class participation.

ACCT 3001 Introduction to Management Accounting

A-F only, 3 credit(s); prereq 2050;

Instructor: Kirscht, Carrie Lynn

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

ACCT 3001 Introduction to Management Accounting

A-F only, 3 credit(s); prereq 2050;

Instructor: Caliendo, Charles Michael

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

ACCT 3001 Introduction to Management Accounting

A-F only, 3 credit(s); prereq 2050;

Instructor: White, Paul Andrew

Description: 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 3199 Internship in Public Accounting

S-N only, 2 credit(s); prereq 5125, instr consent;

Instructor: Biondich, Nick E

Description: Students interested in earning academic credit for work involving an accounting internship should contact nick biondich at 612-624-7055.

ACCT 3201 Intermediate Management Accounting**A-F only, 2 credit(s); prereq 3001, acct or finance major;****Instructor:** White,Paul Andrew

Description: 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.**Instructor:** Beil, Frank J**Description:** Student may contact the instructor or department for information.**ACCT 5125 Auditing Principles and Procedures****A-F only, 4 credit(s); prereq [3101 or 5101 or 5100 or 6100], [acct major or grad mgmt student];****Instructor:** Batina, Tom**Description:** Student may contact the instructor or department for information.**ACCT 5135 Fundamentals of Federal Income Tax****A-F only, 4 credit(s); prereq [2050 or MBA 6030], [mgmt or grad mgmt student];****Instructor:** Carter, Gary Wm

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, 30% Discussion. Problem solving**Grading:** 42% mid exam, 33% final exam, 25% reports/papers.**ACCT 3299 Internship in Management Accounting****S-N only, 2 credit(s); prereq Acct 3201, instr consent;****Instructor:** Biondich, Nick E

Description: Students interested in earning academic credit for work involving an accounting internship should contact Nick Biondich at 612-624-7055.

ACCT 5101 Intermediate Accounting I**A-F only, 4 credit(s); prereq Grade of at least B- in 2050, [mgmt major or mgmt grad student];****Instructor:** Tranter, Terry L

Description: The class will primarily utilize lectures and student questions to cover the material. Grades will be based on total points earned on three midquarters (100 points each), two written assignments which will be graded for writing style, punctuation, and grammar as well as content (40 points each), and a final (180 points). Exams are almost exclusively problem oriented and require free-hand computations (no multiple choice or true/false). Students will be expected to do substantial problem assignments outside class which are not formally graded, but are necessary to master the material. Students should expect to spend 8-12 hours outside of class each week.

ACCT 5160 Financial Statement Analysis**A-F only, 2 credit(s); prereq [5100/6100 or 3101/5101], [accounting or finance major];****Instructor:** Beil, Frank J**Description:** Student may contact the instructor or department for information.**ACCT 5101 Intermediate Accounting I****A-F only, 4 credit(s); prereq Grade of at least B- in 2050, [mgmt major or mgmt grad student];****Instructor:** Biondich, Nick E**Description:** Student may contact the instructor or department for information.**ACCT 5160 Financial Statement Analysis****A-F only, 2 credit(s); prereq [5100/6100 or 3101/5101], [accounting or finance major];****Instructor:** Issaevitch, Thomas

Description: This course will teach students how to use financial statements for a number of purposes but with an emphasis on equity valuation. We will begin with an introduction to equity valuation concepts. We will then use business and economic knowledge, cases, and statistical evidence to understand how financial statements can be used to estimate value, earnings quality, and management ability. (Note: there are no statistical or economic pre-requisites).

Style: 40% Lecture, 40% Discussion, 20% Small Group Activities.**Grading:** 30% final exam, 20% reports/papers, 20% quizzes, 20% written homework, 10% class participation.**ACCT 5101 Intermediate Accounting I****A-F only, 4 credit(s); prereq Grade of at least B- in 2050, [mgmt major or mgmt grad student];****Instructor:** Forester, Clayton L**Description:** Student may contact the instructor or department for information.**ACCT 5102 Intermediate Accounting II****A-F only, 4 credit(s); prereq 5101 [mgmt or grad mgmt student];****Instructor:** Tranter, Terry L

Description: Students in class are juniors, seniors, and master's students. While most students are accounting majors, the course is also valuable for students in finance. The class covers the valuation of liabilities and owners' equity accounts, as well as cashflow statements and earnings per share calculations. Students need a thorough background in financial accounting and present value calculations to do well in Acct 5102.

Style: 100% Lecture.**Grading:** 47% mid exam, 25% final exam, 19% reports/papers, 9% other evaluation.**Exam Format:** Open-ended questions 85+%; essays 10-15%; 4-6 questions per exam; exams are long and run the full class period**ACCT 5236 Introduction to Taxation of Business****A-F only, 2 credit(s); prereq 5135, acct major;****Instructor:** Gutterman, Paul Gerard

Description: Also known as "Tax 2," this course is a continuation and building upon the fundamental tax principles learned in Acct 5135. Whereas the first tax course focused on individual taxation, this course is intended as a broad overview of entity taxation. Specifically it is a survey to the income tax laws governing the taxation of corporations, partnerships, limited liability companies, limited liability partnerships, and S corporations. The course will also build upon and increase the student's knowledge and skills relating to tax research by requiring the writing of two research memorandums.

Style: 60% Lecture, 15% Discussion. Problems**Grading:** 40% mid exam, 40% final exam, 20% other evaluation. research memoranda**Exam Format:** multiple choice + short essay**ACCT 5125 Auditing Principles and Procedures****A-F only, 4 credit(s); prereq [3101 or 5101 or 5100 or 6100], [acct major or grad mgmt student];**

ACCT 5310 International Accounting

A-F only, 2 credit(s); prereq 5101; [5102 or Concurrent registration is required (or allowed) in 5102] recommended;

Instructor: Rayburn, Judy Ann

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

ACCT 6100 Financial Statement Analysis

A-F only, 4 credit(s); prereq MBA 6030, MBA student;

Instructor: Beil, Frank J

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

ACCT 6160 Accounting for Mergers and Acquisitions, and Derivatives

A-F only, 2 credit(s); prereq MBA 6030, MBA student;

Instructor: Beil, Frank J

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

ACCT 8001 Internal Control

A-F only, 4 credit(s); prereq MAcc grad major;

Instructor: Kallio, Larry Rodger

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

ACCT 8002 Securities and Exchange Commission (SEC) and Standard Setting

A-F only, 4 credit(s); prereq MAcc grad major;

Instructor: Kallio, Larry Rodger

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

ACCT 8801 Empirical Research in Capital Markets

4 credit(s); prereq Business admin PhD student or instr consent;

Instructor: Shroff, Pervin Keki

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

ACCT 8811 Information Economics I

4 credit(s); prereq Business admin PhD student or instr consent;

Instructor: Kanodia, Chandra S

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

Addiction Studies

Credit Certificate Prog/College of Continuing Edu

ADDS 4001 Professional Practice of Addictions Counseling

A-F only, 3 credit(s); prereq Adds student, instr consent ;

Instructor: Van Cleve, Michael

Description: Core addictions counseling functions including clinical assessment, case management, documentation treatment planning, and ethical issues. Students begin process of securing internship.

ADDS 4002 Internship in Substance Abuse Counseling I

S-N only, 2-8 credit(s), max credits 8, 4 completions allowed; prereq Adds 4001, Adds student, instr consent ;

Instructor: Rohovit PhD, Julie Lynn

Description:

ADDS 5003 Applied Psychopharmacology for Human Service Professionals

A-F only, 2 credit(s);

Instructor: Frenz, David Arthur

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

ADDS 5004 Co-Occurring Addictive and Mental Health Disorders

A-F only, 2 credit(s); prereq Cannot be taken for cr by MSW students;

Instructor: Van Cleve, Michael

Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Visit "Class URL" for ODI policies, including fee and financial aid restrictions. A large number of chemically dependent individuals also have one or more mental health disorders. In addition, many of those with mental health disorders also struggle with substance abuse or dependence. The purpose of this course is to familiarize clinical practitioners with the relationship between mental disorders and substance abuse, the characteristics of the most common mental disorders, and the methods used to treat individuals who have co-occurring conditions. The course will describe how mental health disorders interact with substance abuse disorders, the medications that are used to treat these conditions, and the community resources that can be helpful for these clients. It will also discuss approaches to assessment and counseling, including the use of the DSM-IV-TR. The goal of this course is to improve your ability to work with this population by broadening your knowledge and skills in the areas of assessment, treatment planning, and evidence-based treatment interventions. At the conclusion of this course, you should be able to: --describe the conceptual framework of the treatment of co-occurring conditions --explain the relationship between substance abuse disorders and common mental health disorders --list the diagnostic criteria and symptom profiles for substance abuse and dependence, as well as for the most common mental health disorders --use and access information in the DSM-IV-TR in the context of assessment and diagnosis --describe the medications used to treat various co-occurring conditions Course Materials Texts to purchase from the U of M Bookstores: --Desk Reference to the Diagnostic Criteria from DSM-IV-TR, 4th ed. (2000). Arlington, VA: American Psychiatric Association. --Daley, D. C., & Moss, H. B. Dual Disorders: Counseling Clients with Chemical Dependency and Mental Illness. 3rd ed. (2002). Center City, MN: Hazelden. Text to order online: ? Center for Substance Abuse Treatment. (2005). Substance abuse treatment for persons with co-occurring disorders. Treatment Improvement Protocol (TIP) Series 42. DHHS Publication No. (SMA) 05-3992. Rockville, MD: Substance Abuse and Mental Health Services Administration (SAMHSA). Note: Although you can download a copy of the TIP 42 manual from the Web, it is over 500 pages long, and the printed copy is free. The instructor strongly recommends that you order a printed copy of this text. Visit the SAMHSA site as soon as possible (will open in a new window). Your copy will take 4 to 6 weeks to arrive; in the meantime, you can read the manual online. However, the page references given in the reading assignments will refer to the printed version of this manual.

Style: 100% Web Based.

Grading: --self-introduction: 1% --5 discussions: 9% --12 quizzes: 30% --2 exams: 60%

Adult Education

330 Wulling Hall

ADED 3001 Adult Education Overview

A-F only, 1 credit(s);

Instructor: Hanes Goodlander, Lisa Ann

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

ADED 3101 Introduction to Strategies for Teaching Adults

A-F only, 3 credit(s);

Instructor: Digby, Cynthia LB

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

ADED 5101 Strategies for Teaching Adults

A-F only, 3 credit(s);

Instructor: Park,Rosemarie J

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

ADED 5102 Perspectives of Adult Learning and Development
3 credit(s);

Instructor: Twohig,Catherine Carol

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

ADED 5211 Introduction to the Undereducated Adult

A-F only, 1 credit(s); prereq credit will not be granted if credit received for: ADED 5202;

Instructor: Digby,Cynthia LB

Description:

Style: 100% Web Based.

ADED 5212 Introduction to Adult Literacy in the Workplace

A-F only, 1 credit(s); prereq 5211 credit will not be granted if credit received for: ADED 5201;

Instructor: Mortrude,Judy Ann

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

ADED 5213 Introduction to Adult Literacy in the Community

A-F only, 1 credit(s); prereq 5211 credit will not be granted if credit received for: ADED 5201;

Instructor: Novillo,Walter E

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

Aerospace Engineering and Mechanics

107 Akerman Hall

AEM 1905 Freshman Seminar: Spaceflight With Ballooning

OPT No Aud, 2 credit(s); prereq Fr;

Instructor: Flaten,James Alfred

Description: Study of inexpensive methods for reaching outer space. Design/build mini-spacecraft. Use high-altitude helium balloons to reach near-space. Launch/recovery on one Saturday in October/November. Analysis of balloon mission data. Accomplishments/challenges of past, current, and future missions.

AEM 2011 Statics

A-F only, 3 credit(s); prereq PHYS 1301W, [concurrent registration is required (or allowed) in Math 2374 or equiv], IT;

Instructor: STAFF

Description: Force and moment vectors, resultants. Principles of statics and free-body diagrams. Applications to simple trusses, frames, and machines. Distributed loads. Internal forces in beams. Properties of areas, second moments. Laws of friction. 3 credits. Prerequisites: IT student, Phys 1301, concurrent registration in Math 2374 or equivalent.

AEM 2012 Dynamics

A-F only, 3 credit(s); prereq 2011, [concurrent enrollment Math 2373 or equiv], IT student;

Instructor: STAFF

Description: Review of particle dynamics. Mechanical systems and rigid-body dynamics. Kinematics and dynamics of plane systems. Rotating coordinate systems in 2-D. Energy and momentum of 2-D bodies and systems. Vibrations.

AEM 2021 Statics and Dynamics

A-F only, 4 credit(s); prereq Phys 1301W, [Concurrent registration is required (or allowed) in Math 2374 or equiv], IT;

Instructor: Ketema,Yohannes

Description: Force and moment vectors; resultants. Principles

of statics. Applications to simple trusses, frames, and machines. Distributed loads. Properties of areas. Laws of friction. Review of particle dynamics. Mechanical systems and rigid-body dynamics. Kinematics and dynamics of plane systems. Energy and momentum of 2-D bodies and systems.

AEM 3031 Deformable Body Mechanics

A-F only, 3 credit(s); prereq [2011 or 2021 or [BMEN 3001, BMEN major]], [Math 2374 or equiv], [Concurrent registration is required (or allowed) in Math 2373 or equiv], IT;

Instructor: Mata,Clara Eugenia

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

AEM 3031 Deformable Body Mechanics

A-F only, 3 credit(s); prereq [2011 or 2021 or [BMEN 3001, BMEN major]], [Math 2374 or equiv], [Concurrent registration is required (or allowed) in Math 2373 or equiv], IT;

Instructor: Leo,Perry H

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

AEM 4000H Honors Research Seminar

S-N only, 0 credit(s); prereq Honors student, permission of University Honors Program, AEM major;

Instructor: Shield,Thomas William

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

AEM 4201 Fluid Mechanics

A-F only, 4 credit(s); prereq 2012, [Math 2373 or equiv], [Math 2374 or equiv], [IT upper div or grad student];

Instructor: Sheng,Jian

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

AEM 4295 Problems in Fluid Mechanics

1-3 credit(s), max credits 6, 6 completions allowed; prereq dept consent;

Instructor: STAFF

Description: Topics of current interest. Individual projects with consent of faculty sponsor.

AEM 4301 Orbital Mechanics

A-F only, 3 credit(s); prereq [2012 or equiv], [Math 2373 or equiv], [IT upper div or grad student];

Instructor: Gebre Egziabher, Demoz

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

AEM 4321 Automatic Control Systems

A-F only, 3 credit(s); prereq [4303 or equiv or ME 3281 OR EE 3015], [IT upper div or grad student];

Instructor: salapaka,murti v

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

AEM 4331 Aerospace Vehicle Design

A-F only, 4 credit(s); prereq [2301, 4202, AEM sr] or instr consent ;

Instructor: Garrard,William L

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

AEM 4495 Problems in Dynamics and Control

1-3 credit(s), max credits 6, 6 completions allowed; prereq dept consent;

Instructor: STAFF

Description: Topics of current interest. Individual projects with consent of faculty sponsor.

AEM 4502 Computational Structural Analysis

3 credit(s); prereq [Grade of at least C in 4501, [IT upper div

or grad student]] or instr consent ;

Instructor: Elliott PhD,Ryan S.

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

AEM 4595 Problems in Mechanics and Materials

1-3 credit(s), max credits 6, 6 completions allowed; prereq dept consent;

Instructor: STAFF

Description: Topics of current interest. Individual projects with consent of faculty sponsor.

AEM 4602W Aeromechanics Laboratory

A-F only, 4 credit(s); prereq IT upper div or grad, 4201, 4501, 4601, EngC 1011 or equiv; Meets CLE req of Writing Intensive;

Instructor: Shield,Thomas William

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

AEM 4796 Professional Experience

A-F only, 3 credit(s); prereq IT upper div, AEM major, dept consent ;

Instructor: STAFF

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

AEM 5251 Computational Fluid Mechanics

A-F only, 3 credit(s); prereq [4201 or equiv], [CSci 1113 or equiv], [IT upper div or grad student];

Instructor: Schwartzentruber,Thomas E

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

AEM 5321 Modern Feedback Control

3 credit(s); prereq 4321 or EE 4231 or ME 5281 or equiv;

Instructor: Zhao,Yiyuan J.

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

AEM 5401 Intermediate Dynamics

A-F only, 3 credit(s); prereq IT upper div or grad, 2012, Math 2243;

Instructor: Ketema,Yohannes

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

AEM 5451 Optimal Estimation

A-F only, 3 credit(s); prereq [[MATH 2243 or STAT 3021 or equiv], [4321 or EE 4231 or ME 5281 or equiv]] or instr consent ; Credit will not be granted if credit has been received for: EE 5251;

Instructor: Gebre Egziabher,Demoz

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

AEM 5501 Continuum Mechanics

3 credit(s); prereq IT upper div or grad, 3031, Math 2243 or equiv or instr consent;

Instructor: Tadmor,Ellad

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

AEM 8000 Seminar: Aerospace Engineering and Mechanics

S-N only, 1 credit(s), max credits 4, 4 completions allowed; prereq DGS consent;

Instructor: Shield,Thomas William

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

AEM 8201 Fluid Mechanics I

3 credit(s); prereq 4201 or equiv, Math 2263 or equiv;

Instructor: Longmire,Ellen K

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

AEM 8231 Molecular Gas Dynamics

3 credit(s); prereq [4201 or equiv], [4203 or equiv], [ME 3324 or equiv]; Credit will not be granted if credit has been received for: ME 8361;

Instructor: Girshick,Steven L

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

AEM 8495 Advanced Topics in Aerospace Systems

A-F only, 1-4 credit(s), max credits 8, 8 completions allowed; prereq dept consent ;

Instructor: STAFF

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

AEM 8595 Selected Topics in Mechanics and Materials

1-4 credit(s), max credits 8, 8 completions allowed; prereq dept consent ;

Instructor: STAFF

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

Aerospace Studies 3 Armory

AIR 1000 Leadership Laboratory

S-N only, 1 credit(s);

Instructor: Worley,John E

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: Cooper,Tracy Lynn

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

AIR 1204 History of Airpower and Communication Skills

A-F only, 1 credit(s);

Instructor: Cooper,Tracy Lynn

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

AIR 3301 Air Force Leadership, Quality, and Communication

A-F only, 3 credit(s);

Instructor: STAFF

Description: AS 3301 is a study of leadership, quality management fundamentals, and communication skills required of an Air Force junior officer. Case studies are used to examine Air Force leadership and management situations as means of demonstrating and exercising practical application of the concepts being studied. A mandatory Leadership Laboratory (cadets only) complements this course by providing advanced leadership experiences in officer-type activities, and gives the students an opportunity to apply leadership and management principles taught in this course. Target audience in first semester meet juniors.

Style: 45% Lecture, 30% Discussion. Video tapes

Grading: 20% reports/papers, 40% quizzes, 20% in-class presentation, 20% class participation. 40% tests

Exam Format: Multiple choice, T/F, short answer

AIR 3401 National Security Policy

A-F only, 3 credit(s);

Instructor: STAFF

Description: AS400 examines the national security process, regional studies, advanced leadership ethics, Air Force doctrine, and military justice. Special topics of interest focus on the military as a profession, officership, military justice, civilian control of the military, preparation for active duty, and current issues affecting military professionalism. Within this structure, continued emphasis is given to refining communication skills. A Leadership Laboratory complements this course by providing advanced

leadership experiences, giving the students the opportunity to apply the leadership and management principles of this course. Target audience is first semester seniors preparing to enter active duty as commissioned Second Lieutenants in the US Air Force. Classes are a combination of lecture and guided discussion. Class time: 50% lecture, 30% discussion, 20% student briefings. Work load: 70 pages of reading per week, 2 exams, 3 papers, 2 oral presentations. Exam format: essay, short answer, matching.

Style: 50% Lecture, 30% Discussion. student briefings

Grading: 25% mid exam, 25% final exam, 30% reports/papers, 20% in-class presentation.

Exam Format: essay, short answer, matching

Afro-American Studies

808 Social Sciences Tower

AFRO 1012 Black Worlds in Global Perspective: Challenges and Changes

3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of International Perspect Theme;

Instructor: Onishi, Yuichiro

Description: This course explores the dynamic processes of the dispersal of Africans and their descendants throughout the world to develop strategies to engage with "the practice of diaspora." Our approach is historical, examining why and how this phenomenon of dispersion occurred and changed over a long period of time. Such a sweeping historical perspective allows us to: (1) assess the relationship between Africa and the world at large both before and after the "transatlantic moment" of the fifteenth century; (2) explore Africa's place in the modern world and how it continues to play a critical role in it; (3) examine the transformation of identities and struggles for Africanity and pan-Africanism in the New World. In addition, this course is interested in exploring the possibilities of the African diaspora, as well as challenges facing the communities of the African diaspora in such places as the United States and other parts of the Americas in the contemporary world. Throughout the semester, we will searchingly look for ways to reconnect with Africa and myriad communities of the African diaspora in new ways. Our methods of inquiry include personal reflection, group work, written assignments, and class discussion. Students who are interested in international Black history, Black radicalism, pan-Africanism, and questions of identity and politics are encouraged to take this course.

Style: 50% Lecture, 50% Discussion.

Grading: 60% reports/papers, 5% attendance, 10% reflection paper, 15% in-class presentation, 10% class participation.

AFRO 1021 Introduction to Africa

4 credit(s); Meets CLE req of International Perspect Theme; Instructor: Coifman, Victoria Bomba

Description: This course is an introduction to the people of the African continent and incorporates fascinating findings from geography, archaeology, history, literature, economics and politics. A highlight of the semester is our participation in the US World Food Day Conference in October. The class actively participates in the televised events of the day and students especially enjoy this segment of our work. The course provides solid background information about the continent's past and present and gives the context for understanding the serious issues facing Africans today - in areas of government, education, poverty, health and disease, environment, international relations. While learning basic and theoretical information, we are preparing for practical activities in the future. African peoples have faced increasing changes in the last 500 years. The African "Diaspora" begun centuries ago, brought Africans and their descendants to new lives on all the continents and newcomers are adding to the diversity of this State even now. In Africa itself, long distance contacts and trade in commodities and the periods of the Trans-Saharan and Atlantic slave trade (16th to 19th centuries) and the Indian Ocean slave trade, were followed by the era of European colonial rule from the late 19th century to

the early 1960s (for most of Africa).

Style: 50% Lecture, 30% Discussion. These bring visuals and new perspectives to our understanding of a lively continent.

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

Exam Format: short identifications and essay - there are choices in all parts of the exam to allow for factual information and students' experiences and creativity.

AFRO 1201 Racial Formation and Transformation in the United States

3 credit(s);

Instructor: Onishi, Yuichiro

Description: What does it take to discuss race seriously? An exploration of this question demands a counter-narrative, for our contemporary moment is such that a growing public opinion (1) casts America as a "raceless" nation, (2) interprets antiracism as "reverse racism," and (3) embraces "diversity" to maintain the racial status quo. Talking about race is not easy to be sure; it engenders a host of unsettling emotions ranging from guilt and shame to anger. Yet not talking about race as a social fact in American life and culture forecloses possibilities to understand how racial differences are constructed through domination over time and ultimately to reach across myriad boundaries of social difference to strive toward a shared sense of community and belonging. Together, we will participate in racial struggles, albeit at times painful and challenging, to address and grapple with ethico-political imperatives to pursue social justice and make the notion of diversity anew.

Style: 40% Lecture, 40% Discussion, 20% Small Group Activities.

Grading: 80% written homework, 20% class participation.

AFRO 1902 Freshman Seminar: Your Television Will Be Colorized: Black TV Comics' Riffs on Race

3 credit(s); prereq Fr; Meets CLE req of Cultural Diversity Theme;

Instructor: Jacobs, Walt

Description: In this seminar students will learn to identify and decode racial critiques of American society found in TV shows featuring African American comics. From the overt commentary offered in sketch comedy shows such as Chappelle's Show and In Living Color, to the more subtle discourse of a situation comedy like The Cosby Show, African American comics have a long history of using television as a stage to address the continuing significance of race in the United States. We will explore both historical and contemporary uses of humor to explain and reorganize our understandings of American racial dynamics. Using a variety of cultural studies methods and online technologies (including blogs, podcasts, and Moodle), students will develop "critical media literacy" -- the ability to be rigorously analytical about the information and understandings we draw from the mass media without diminishing the pleasure gained. For the seminar's final project, students will create, perform, and analyze comedic skits.

Style: 20% Lecture, 25% Film/Video, 25% Discussion, 10% Small Group Activities, 10% Student Presentation, 10% Web Based.

Grading: 55% reports/papers, 25% reflection paper, 20% other evaluation.

AFRO 3001 West African History: Early Times to 1800

3 credit(s); Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme;

Instructor: Coifman, Victoria Bomba

Description: This course will examine the story of some of the people of this region, especially through the changes and developments which took place among several individual groups. The emphasis will be upon understanding well, the events of some "representative" people's histories, rather than attempting to understand what occurred in each and every group. There are too many groups and activities to study in a semester. Main themes of the course will include the family or lineage as the building block of all other institutions, the development of centralized political authority or states in West Africa, and the organization of people who did not adopt the state idea. We will

examine economic developments, the spread of Islam, and the appearance of Europeans off certain coastal areas. Here a new frontier or border formed, one of hundreds in West African History. As with all other West African borders, the operational institutions of the African-European frontier were mainly being set by West African mechanisms. Until well into the nineteenth century, therefore, European (and American) traders were paying tribute and were in client, guest, or "stranger" relations with their West African patrons, hosts, or "landlords".

AFRO 3141 Africa

3 credit(s); Credit will not be granted if credit has been received for: GEOG 3141; Meets CLE req of Environment Theme; meets CLE req of International Perspect Theme; Instructor: STAFF

Description: Geography of Africa introduces students to the human and environmental diversity of Africa, and examines the effects of internal and external forces on the spatial organization of Africa economies and societies. Geographic (case) studies are used to discuss important developmental issues, or changes that reflect modern trends and gender conditions. We examine selected regions and topics or themes in depth rather than to present general profiles of individual nations. This approach highlights the importance of culture in environmental and social change. Handouts (including current news reports), lecture units, slides/video documentaries and class discussions are used to provide the latest information available.

Style: 70% Lecture, 30% Discussion.

Grading: 20% mid exam, 40% final exam, 20% reports/papers, 20% other evaluation. 2 map-based quizzes, 10% each

Exam Format: mixed

AFRO 3204 History of South Africa to 1910

3 credit(s); Credit will not be granted if credit has been received for: HIST 3434; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme; Instructor: Atkins,Keletso E

Description: This course will be a history of South Africa from early man to the arrival of the first Dutch settlers at the Cape of Good Hope in 1652 to the unification of South Africa in 1910. A major theme will be the historical patterns of interaction and conflict relations that characterized contact between the white expansionist communities and the indigenous peoples of the region. We will examine such topics as: the "myth of the empty land" thesis used by the colonial state to justify the appropriation of African lands; the institution of slavery and the emergence of racial attitudes in the Cape colony; strategies of opposition to European encroachment as well as African collaboration with the settler regime. Also we will analyze two case studies of African state formation; the rise and fall of the African peasantry within the context of the mineral revolution and the development of the South African migrant labor system; the emergence of a new work culture; Afrikaner nationalism and new forms of African protest politics.

Style: 70% Lecture, 25% Discussion. videos

Grading: 20% mid exam, 35% final exam, 35% reports/papers, 10% class participation.

Exam Format: Essay

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 Cultural Diversity Theme; meets CLE req of Social Science Core; 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 Cultural Diversity Theme; meets CLE req of Other Humanities Core; Instructor: Williams,Yolanda Y

Description: Trace 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 it travels to the "New World" and expressed through Spirituals, Symphonies, Gospel Music, Jazz, Rock and Roll, Step Bands and more. Study will take place during lectures, readings and discussion both online and in class. Vintage performances found on videos and audio examples will provide tangible examples of the music as it evolves. Special focus is placed on the social, political and economic issues faced by the innovators and consumers of these musical styles and genres.

Style: 60% Lecture, 20% Discussion. audio_visual presentations

Grading: 20% mid exam, 20% final exam, 20% reports/papers, 10% class participation, 30% other evaluation. Written assignments: Live Performance Experiences, Blues composition, Listening Assignments, etc.

Exam Format: Multiple choice, True-False, Matching and Essay

AFRO 3431 Early Africa and Its Global Connections

4 credit(s); Credit will not be granted if credit has been received for: HIST 3431; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme; Instructor: Masakure,Clement

Description: Early African farmers and hunters, men and women, kings and queens, commoners and slaves long stood at the center - not the margins -- of global change. From the rise of agriculture to the culmination of the slave trades, Africans actively borrowed ideas, technologies, and foods, guns, and other goods from Asian and European "strangers". But they profoundly influenced these strangers as well, contributing their innovative ideas, technologies, cultural expressions, and wealth. Through close study of oral traditions, epics, archaeological data, food, autobiography, and film, we will investigate early Africans' global connections. Environment plays an important role in our study; we explore the ways that Africans creatively adapted to, manipulated, and altered the continent's diverse environments, and how choices shaped the kinds of societies in which they lived. By immersing ourselves in Africa's early history, we will also begin to understand and to critique how and why contemporary western media has come to portray Africans as "marginal" to global change. This course begins its study of global connections when the climatic changes that contributed to the rise of agriculture (after 20000 BCE), and it concludes in the late-eighteenth century, following the period of Africa's most intensive exports of slaves.

AFRO 3592W Introduction to Black Women Writers in the United States

3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive; Instructor: Githire,Njeri R

Description: This course seeks to explore the literary production of North American Black women from diverse backgrounds and perspectives. Through their varied and common experiences of Black females living in a white-male-dominated culture, we will endeavor to understand the social construction of race and gender, as well as their intersection with class and social-economic dynamics. In the Black cultural and literary traditions of truth narratives and transparency, these women share their historical, cultural, and contemporary experiences and insights with verve and authority. At the heart of their literary

pursuit is the aspiration to live a more informed, enriched, and inspired life. In so doing, these writers offer us important lessons about creativity, hope, empowerment, courage, and self-expression.

Style: 50% Lecture, 10% Discussion.

Grading: 60% reports/papers, 10% quizzes, 10% in-class presentation, 20% class participation.

AFRO 3597W Introduction to African American Literature and Culture I

4 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;

Instructor: Wright, John Samuel

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

AFRO 3601W Introduction to African Literature

3 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;

Instructor: Githire, Njeri R

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

Style: 40% Lecture, 20% Film/Video, 30% Discussion, 5% Small Group Activities, 5% Web Based. We watch video/films in class related to topics being explored then discuss the material viewed.

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

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

AFRO 3864 African American History: 1619 to 1865

4 credit(s); Credit will not be granted if credit has been received for: HIST 3864; Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core;

Instructor: Mayes, Keith A

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

AFRO 3866 The Civil Rights and Black Power Movement,

1954-1984

3 credit(s); Credit will not be granted if credit has been received for: AFRO 5866; Meets CLE req of Citizenship/Public Ethics Theme; meets CLE req of Cultural Diversity Theme;

Instructor: Mayes, Keith A

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

AFRO 4105 Ways of Knowing in Africa and the African Diaspora

A-F only, 3 credit(s);

Instructor: Brewer, Rose Marie

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

AFRO 4593 The African American Novel

3 credit(s); Credit will not be granted if credit has been received for: ENGL 4593;

Instructor: Wright, John Samuel

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

AFRO 4991W Thesis Research and Writing

A-F only, 3 credit(s); prereq dept consent ; Meets CLE req of Writing Intensive;

Instructor: Pate, Alexs D.

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

AFRO 5103 African History from the Perspective of the African Diaspora

A-F only, 3 credit(s);

Instructor: Atkins, Keletso E

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

AFRO 5866 The Civil Rights and Black Power Movement, 1954-1984

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: AFRO 3866;

Instructor: Mayes, Keith A

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

AFRO 5910 Topics in African American and African Studies

1-3 credit(s), max credits 9, 3 completions allowed;

Instructor: Lindquist, Malinda A

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

**Agricultural, Food, and Environmental Education
325 Vocational & Technical Educ Bldg**

AFEE 1001 Introduction to Agricultural Education and Extension

1 credit(s);

Instructor: Leising, James G

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

AFEE 2221 People Skills for Leadership

A-F only, 3 credit(s);

Instructor: Peterson, Roland L

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

AFEE 3096 Experiential Learning: Production and Business

1-8 credit(s), max credits 12, 12 completions allowed; prereq AgEd major, instr consent ;

Instructor: Westrom, Lyle Emil

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

for information.

AFEE 5111W Agricultural Education: Methods of Teaching
4 credit(s); Meets CLE req of Writing Intensive;

Instructor: Westrom,Lyle Emil

Description: The goal of this course is to provide an overview of instructional strategies utilized by agricultural education instructors in secondary schools, and by adult educators in agricultural businesses, organizations, and government agencies. This course will examine the teaching and learning process, and is intended to assist agricultural education undergraduate students in developing effective teaching skills. Students will learn techniques necessary for designing instruction, motivating learners, leading the educational process, and managing the learning environment. The problem-solving approach to teaching is stressed for a major portion of the course and students have the opportunity to practice the delivery of instruction in a performance-based format.

Style: 40% Lecture, 30% Discussion, 30% Laboratory.

AFEE 5111W Agricultural Education: Methods of Teaching
4 credit(s); Meets CLE req of Writing Intensive;

Instructor: Greiman,Brad

Description: The goal of this course is to provide an overview of instructional strategies utilized by agricultural education instructors in secondary schools, and by adult educators in agricultural businesses, organizations, and government agencies. This course will examine the teaching and learning process, and is intended to assist agricultural education undergraduate students in developing effective teaching skills. Students will learn techniques necessary for designing instruction, motivating learners, leading the educational process, and managing the learning environment. The problem-solving approach to teaching is stressed for a major portion of the course and students have the opportunity to practice the delivery of instruction in a performance-based format.

Style: 40% Lecture, 30% Discussion, 30% Laboratory.

AFEE 5290 Seminar: Current Issues in Agricultural Education and Extension

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

Instructor: Westrom,Lyle Emil

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

AFEE 5361 World Development Problems

A-F only, 3 credit(s);

Instructor: Amenumey,Felix K.

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: Westrom,Lyle Emil

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 1007 Horse in Your Backyard

A-F only, 2 credit(s); Credit will not be granted if credit has been received for: ANSC 1007;

Instructor: Hathaway, Marcia R

Description: Role of horses in society. How to keep a horse well

fed and healthy. Nutrition, feedstuffs, pasture, health. How to seek/interpret information on vaccination, worming, nutrition, grazing management, hay selection, manure handling, and use of dietary feed additives/enhancers.

AGRO 1093 Directed Studies

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

Instructor: Brakke,Mary Patricia

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

AGRO 1093 Directed Studies

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

Instructor: Cardwell,Vernon Bruce

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/Lab Core; meets CLE req of Environment Theme;

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 1103 Crops, Environment, and Society

4 credit(s); Credit will not be granted if credit has been received for: AGUM 2222; Meets CLE req of Environment Theme;

Instructor: Sheaffer,Craig Charles

Description: Life on earth is dependent on plants. Learn about food, fiber, and medicinal plants that are important to our society, their impact on environmental quality, and how they are improved and cultured. Discuss currently important topics such as genetic engineering, food safety, water quality, organic agriculture, and species preservation. In a laboratory, learn about how plants grow, and about food products derived from plants. This course is intended for undergraduate majors and non-majors interested in a general understanding of food and fiber production from crop plants. In the class, we use several approaches to learning, such as case studies, and minimize lecturing. We promote discussion by viewing videos and reviewing recent newspaper and magazine articles.

Style: 30% Lecture, 40% Discussion, 20% Laboratory. Problem solving

Grading: 40% mid exam, 20% final exam, 20% laboratory evaluation, 20% problem solving.

Exam Format: Short answer

AGRO 1660 First-Year Colloquium/Experience in Agroecosystems Analysis

A-F only, 2 credit(s); prereq 1st yr in major hosted by Department of Agronomy and Plant Genetics;

Instructor: Cardwell,Vernon Bruce

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

AGRO 2501 Plant Identification for Urban and Rural Landscapes

2 credit(s); prereq Biol 1009 or equiv; Credit will not be granted if credit has been received for: AGUM 2240;
Instructor: Durgan, Beverly R
Description: Student may contact the instructor or department for information.

AGRO 4093 Directed Studies for Advanced Students

1-4 credit(s), max credits 12, 12 completions allowed; prereq 15 cr in agronomy, instr consent;
Instructor: Cardwell, Vernon Bruce
Description: Student may contact the instructor or department for information.

AGRO 4096 Professional Experience Program: Internship

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

AGRO 4103 World Food Problems

3 credit(s); prereq jr or sr or grad; Credit will not be granted if credit has been received for: APEC 4103; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of International Perspect Theme;

Instructor: Porter, Paul M

Description: This course provides a multi-disciplinary look at problems (and some of the possible solutions) affecting food production, storage, and utilization. Presentations and discussions introduce and discuss sometimes conflicting views on population control, use of technology, as well as the ethical and cultural values of people in various countries of the world. Emphasis is placed on the need for governments, international assistance agencies, international research and extension centers, as well as the private business sector to assist in solving these complex problems. Students can enroll in either Agro 4103 or ApEc 4103. Previous background in any of the disciplines is not required, but students should expect upper division and/or graduate level assignments.

Style: 33% Lecture, 33% Discussion.

Grading: 60% reports/papers, 25% special projects, 15% class participation.

AGRO 4603 Field Crop Scouting and Problem Diagnosis

3 credit(s); prereq 3005, Soil 3416, [[2501, Ent 3001, PIPa 2002] or Agri 3001], [jr or sr], 16-20 cr in major;

Instructor: Cardwell, Vernon Bruce

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

AGRO 4605 Management Strategies for Crop Production

3 credit(s); prereq [Jr or sr or grad student], [program committee approval or instr consent];

Instructor: Cardwell, Vernon Bruce

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

AGRO 4660 Senior Capstone: Leadership, Decision Making, and Problem Solving

A-F only, 2 credit(s); prereq 4096 or ScAg 4009 or instr consent;

Instructor: Muehlbauer, Gary John

Description: This course examines the complexities of agricultural issues through a series of discussions. The course also engages students in exercises and discussions that integrate previous educational situations. This course is linked to undergraduate internships and other experiential learning opportunities such as thesis or direct studies and service learning. Written and oral assignments are based on internships or other learning experiences.

Style: 10% Lecture, 90% Discussion.

Grading: 50% reports/papers, 30% in-class presentation, 20% other evaluation. class discussion

AGRO 4888 Issues in Sustainable Agriculture

2 credit(s); prereq 1103, Soil 1125 or 2125 or equiv;

Instructor: Sheaffer, Craig Charles

Description: Study the social, economic, political and environmental aspects of a sustainable agriculture through discussions with experts in the field. Specific topics can include: the history of agriculture and the family farm, government farm policy, the importance of biodiversity for healthy landscapes, rural communities, quality of life, community supported agriculture, organic agriculture, landscape health and non-profit organizations. Teaching approaches will include student, faculty and producer-led discussions. The course will include on-farm visits. Target audience: non-majors and majors interested in sustainable agriculture.

AGRO 5311 Research Methods in Crop Improvement and Production

S-N only, 1 credit(s); prereq applied plant sciences grad;

Instructor: Anderson, James Allan

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

AGRO 5321 Ecology of Agricultural Systems

A-F only, 3 credit(s); prereq [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; Meets CLE req of Environment Theme;

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 5999 Special Topics: Workshop in Agronomy

1-6 credit(s), max credits 6, 3 completions allowed; prereq Jr or sr or grad student;

Instructor: Porter, Paul M

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

AGRO 8201 Plant Breeding Principles I

A-F only, 3 credit(s); prereq Stat 5301 or equiv; Credit will not be granted if credit has been received for: HORT 8201;

Instructor: Anderson, James Allan

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

AGRO 8270 Graduate Seminar

A-F only, 1 credit(s); prereq Grad major in [applied plnt sci or agro or ent or hort or plnt brdg or plnt path or soil] or instr consent; Credit will not be granted if credit has been received for: HORT 8270;

Instructor: Wyse, Donald L

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

AGRO 8900 Advanced Discussions

S-N only, 1-3 credit(s), max credits 12, 12 completions allowed; prereq instr consent; Credit will not be granted if

credit has been received for: HORT 8900;

Instructor: Muehlbauer, Gary John

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

American Indian Studies

19 Scott Hall

AMIN 1001 American Indian Peoples in the United States

3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;

Instructor: STAFF

Description: This course is intended to give students a general overview of the contemporary and historic experiences of American Indian peoples in the United States and Canada. It challenges the dominant culture's stereotypes and its unthinking assumptions about American Indian people in the past and present. It shows how the peoples of America's First Nations engaged the presence and representations of foreigners in their midst through acts of resistance, rebellion, accommodation, and innovation. In the process, it illustrates the great diversity of tribal cultures and histories in North America, and it gives evidence of this in the areas of identity, work, philosophy, politics, society, language, religion, literature, and the arts.

AMIN 1002 Indigenous Peoples in Global Perspective

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: POL 1019; Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core;

Instructor: Cothran III, Boyd Dean

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

AMIN 1003 American Indians in Minnesota

A-F only, 3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core;

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 revealing 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

AMIN 1201 Racial Formation and Transformation in the United States

3 credit(s);

Instructor: Onishi, Yuichiro

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

AMIN 3141 American Indian Language Planning

A-F only, 3 credit(s); prereq 3103 or 3123; Credit will not be granted if credit has been received for: AMIN 5141;

Instructor: Nichols, John David

Description: In this course on the maintenance and revitalization of North American indigenous languages, our main objective is to prepare for work in American Indian communities on language issues through language planning activities, language documentation (preparation of grammars, dictionaries, and texts), and education (preparation of pedagogical materials, design of curriculum, and teaching). Among the topics to be covered are: overview of American Indian languages; introduction to American Indian language revitalization; language shift and language death; first nation, state/provincial, federal, and international perspectives on language rights and policies; introduction to language planning; language documentation: dictionaries, grammars, and texts; lexical innovation; literacy and orthographic standardization; second language acquisition and teaching; preparing pedagogical materials; teacher training; community activities; proposal writing.

Style: 50% Lecture, 50% Discussion.

AMIN 3201W American Indian Literature

3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;

Instructor: Meland, Carter

Description: How do you creatively respond to the transformations and deformations introduced into Native America by the colonizing cultures of Europe and Euroamerica? In this course we examine how a select group of American Indian writers creatively respond to the experience of colonization in the narratives they imagine. This question is not aimed exclusively at American Indian writers though, nor is it even more generally aimed only at Indian people. Rather this question about colonization is aimed at everyone living here now: How do you (you sitting there reading this statement) creatively respond to the transformations and deformations introduced into Native America by the colonizing culture of Euroamerica? This course invites you to think about this question and this writing, even if you never have before. In class discussions we will examine how various writers approach this question and we will familiarize ourselves with the ideas, themes, and tools Native writers use through close readings of their works. In addition to examining the works we will also examine ways the various works ask us to consider and reconsider our own experiences of living in North America. Your responses to the works and our guiding question will be explored, examined, and developed in class discussions, a variety of short writing assignments, and in a final research essay. You will read four or five books for the course as well as a half-dozen or so short readings. As the course is Writing-Intensive you will also do about 40 pages of writing.

Style: 10% Lecture, 90% Discussion.

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

AMIN 3201W American Indian Literature

3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;

Instructor: Power, Susan Mary

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

AMIN 3301 American Indian Philosophies

4 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core;

Instructor: STAFF

Description: The purpose of this course is to introduce students to the philosophical thought and spiritual beliefs of native peoples of North America. Students will examine a broad spectrum of issues which influence the worldview of native people on this continent, including European contact and thought. Students may find some of the issues to be controversial and personally challenging, however, a thorough discussion of the impact of European influences is important to understanding native people's resistance and survival. Finally, students will also explore the ways in which native philosophy and spiritual practices shape native life experience in a society

viewed by many native people as being at odds with their beliefs.

Style: 60% Lecture, 20% Discussion. Group work

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

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

AMIN 3303 American Indians and Photography

3 credit(s); Credit will not be granted if credit has been received for: AMIN 5303; Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core;

Instructor: Albers, Patricia

Description: This course is an historical overview of photographic representations in which American Indian people have been the central subjects. 1) It entails a study of the subtle, complex, and ever-changing relationships between those who take, pose for, and view pictures of American Indians. 2) It considers how the social contexts and purposes of picture-taking influence the content, composition, and coding of images which make up the field of American Indian photographs. 3) It gives attention to the diverse and often contradictory ways in which photographs are understood in meaningful ways, and more specifically, it inquires into whether American Indian cultures engage processes of photographic representation through distinct aesthetic standards and practices. 4) In doing so, it takes a critical look at how the appearance and meaning of photographs are related not only to the cultural contexts in which they are produced, but also to the agencies of those who stand behind their making. Special attention is paid to some of the intended as well as unintended ideological and political consequences of photographic image-making in historical settings dominated by colonialism and its gaze.

Style: 40% Lecture, 40% Discussion. reading and studying photographs

Grading: 60% reports/papers, 40% special projects.

AMIN 3401 American Indian Art

4 credit(s); Meets CLE req of Cultural Diversity Theme;

Instructor: Chapman, Jeffrey T

Description: Visual arts depicting rituals, traditions, values and world views of major American Indian populations. This course is designed to acquaint students with American Indian arts from pre-contact to, and including, contemporary Indian arts. It focuses on materials, techniques, symbolism, imagery and traditions that underlie the art forms in various tribal regions of North America. The class will examine the influence of other tribes and also the effect of European immigration.

Style: 50% Lecture, 50% Discussion. Students are required to create an art project using traditional materials and techniques.

Grading: 10% final exam, 30% reports/papers, 10% special projects, 40% quizzes, 5% in-class presentation, 5% class participation.

Exam Format: essay

AMIN 3402 American Indians and the Cinema

A-F only, 3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core;

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, 60% Film/Video, 25% Discussion, 5% Student Presentation.

AMIN 3701 Ojibwe Culture and History

3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core;

Instructor: Jones, Dennis

Description: An introductory overview of Ojibwe culture, history, beliefs, and traditions, including philosophy and world view. The course is presented in four parts, with a test and a paper due at the completion of each part.

Style: 50% Lecture, 50% Discussion.

Grading: 20% final exam, 40% reports/papers, 40% quizzes.

Exam Format: Multiple choice; true/false; and matching

AMIN 3872 American Indian History: 1830 to the Present

3 credit(s); Credit will not be granted if credit has been received for: HIST 3872; Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core;

Instructor: O'Brien-Kehoe, 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, 30% Discussion. films

Grading: 40% mid exam, 25% final exam, 25% reports/papers, 10% class participation.

Exam Format: Essay

AMIN 4501 Law, Sovereignty, and Treaty Rights

3 credit(s); prereq 1001; Meets CLE req of Citizenship/Public Ethics Theme;

Instructor: Wilkins, David E

Description: This course introduces the student to U.S. domestic policy and federal law as it pertains to American Indian peoples. First, we engage in a critical analysis of the interaction between the three principal actors--Indigenous nations, the Federal Government, and States. Second, we discuss the role of Indian activism, the media, and interest organizations in Indian law and policy formulation. Third, we briefly examine the historical development of major federal Indian policy eras. Finally, we engage in a focused analysis of several specific federal policy initiatives that are particularly contentious at the moment--Indian gaming, religious freedom, federal recognition, and the international arena.

Style: 20% Lecture, 80% Discussion.

Grading: 25% mid exam, 25% final exam, 25% reports/papers, 25% other evaluation. weekly questions

Exam Format: essay

AMIN 5141 American Indian Language Planning

A-F only, 3 credit(s); prereq 3103 or 3123 or instr consent;

Credit will not be granted if credit has been received for:

AMIN 3141;

Instructor: Nichols, John David

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

AMIN 5303 American Indians and Photography

3 credit(s); Credit will not be granted if credit has been received for: AMIN 3303;

Instructor: Albers, Patricia

Description: This course is an historical overview of photographic representations in which American Indian people have been the central subjects. 1) It entails a study of the subtle, complex, and ever-changing relationships between those who take, pose for, and view pictures of American Indians. 2) It considers how the social contexts and purposes of picture-taking influence the content, composition, and coding of images which make up the field of American Indian photographs. 3) It gives attention to the diverse and often contradictory ways in which photographs are understood in meaningful ways, and more specifically, it inquires into whether American Indian cultures engage processes of photographic representation through distinct aesthetic standards and practices. 4) In doing so, it takes a critical look at how the appearance and meaning of photographs are related not only to the cultural contexts in which they are produced, but also to the agencies of those who stand behind their making. Special attention is paid to some of the intended as well as unintended ideological and political consequences of photographic image-making in historical settings dominated by colonialism and its gaze.

Style: 40% Lecture, 40% Discussion. reading and studying photographs

Grading: 60% reports/papers, 40% special projects.

AMIN 5402 American Indians and the Cinema

A-F only, 3 credit(s); Meets CLE req of Cultural Diversity Theme;

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, 60% Film/Video, 25% Discussion, 5% Student Presentation.

AMIN 5407 Craft and Conventions of American Indian

Ethnohistory

A-F only, 3 credit(s);

Instructor: Albers, Patricia

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

American Sign Language 240 VoTech Building

ASL 1701 American Sign Language I

5 credit(s);

Instructor: STAFF

Description: A study of the fundamentals of American Sign Language: Introduction to learning and understanding American Sign Language, cultural values and rules of behavior of the deaf community in the United States. Includes receptive and expressive readiness activities, sign vocabulary, grammatical structure, receptive and expressive finger spelling, and deaf culture.

ASL 1702 American Sign Language II

5 credit(s); prereq 1701 with a final grade of at least [S or C-] or instr consent 1701 with a final grade of at least [S or C-] or instr consent 1701 with a final grade of at least [S or C-] or instr consent ;

Instructor: STAFF

Description: Continuation of the study of the fundamentals of American Sign Language: Increased communication skill in American Sign Language, cultural values and behavioral rules of the deaf community in the U.S., receptive and expressive, sign vocabulary, grammatical structure, receptive and expressive finger spelling and aspects of deaf culture. (SP-ASL 1701 or instructor approval)

ASL 3703 American Sign Language III

5 credit(s); prereq 1702 with final grade of at least [S or C-] or instr consent 1702 with final grade of at least [S or C-] or instr consent 1702 with final grade of at least [S or C-] or instr consent ;

Instructor: STAFF

Description: Expanded instruction of American Sign Language receptive and expressive activities, sign vocabulary, grammatical structure, receptive and expressive finger spelling, narrative skills, cultural behaviors, and aspects of deaf culture. Abstract and conversational approach. (SP-ASL 1702 or instructor approval)

ASL 3704 American Sign Language IV

5 credit(s); prereq 3703 with final grade of at least [S or C-] or instr consent ;

Instructor: STAFF

Description: Increases the emphasis on more abstract and challenging conversational and narrative range. Includes receptive and expressive readiness activities, sign vocabulary, grammatical structure, receptive and expressive finger spelling, various aspects of deaf culture and cultural behavior rules. (SP-ASL 1703 or instructor approval)

ASL 3705 Cultural Perspectives of Deafness

3 credit(s); Meets CLE req of Cultural Diversity Theme;

Instructor: STAFF

Description: Introduction to the deaf community as a linguistic and cultural minority group. The role of deaf people in the larger society, political activism, laws, access to information, educational philosophies and methods, and communication systems.

American Studies 104 Scott Hall

AMST 1401 Comparative Genders and Sexualities**3 credit(s); Meets CLE req of International Perspect Theme;****Instructor:** Fajardo,Kale Bantigue

Description: Sissies, Sex Workers, and Seamen: How and why do people understand their genders and sexualities differently in diverse cultural contexts and locations? How has capitalism, colonialism, immigration, migration, and globalization impacted genders and sexualities in North America, Asia, the Pacific, Latin America, and Africa? The course stresses studying genders and sexualities within a cross-cultural and comparative (e.g. international/regional) framework, and also emphasizes an intersectional approach: that is, in order to analyze gender and sexuality, we must also think about how race, class, ethnicity, nationality, and geography "inform" how gender and sexuality are embodied, experienced, performed, and/or regulated, and we must also consider histories of capitalism, colonialism, migration, and globalization. Participants will read an eclectic mix of theory, history, literature, and ethnography, and watch diverse international and U.S.-based films in order to better understand and analyze genders and sexualities in different geographic, cultural, and political contexts. The course aims to promote cross-cultural learning about the gender and sexual diversity that is part of the histories and cultures of people who immigrate or reside in the United States

Style: 35% Lecture, 30% Discussion. Films**Grading:** 40% reports/papers, 20% class participation, 40% other evaluation. final paper**Exam Format:** No Exam**AMST 1905 Freshman Seminar: In Pursuit of Fairness: Hist Affirmative Action****3 credit(s);****Instructor:** Pierce,Jennifer L

Description: This course focuses on the emergence of affirmative action as a social policy for remedying racial inequality in the twentieth century United States. In contrast to popular belief, affirmative action as a policy did not emerge full-blown in the 1970s, its origins can actually be traced to the 1930s and President Franklin Delano Roosevelt's New Deal policy agenda. We follow the trajectory of these early policy formations through WWII to the influential Brown vs. Board of Education decision which ruled that the "separate but equal" doctrine in public facilities unconstitutional. To understand the consequences of the Brown decision, we then focus on the desegregation of Central High School in Little Rock, Arkansas in 1958 from the perspective of former high school students who were there during this time period. Next, we move to the post-civil rights era and examine the varied meanings and debates about affirmative action in media accounts, scholarly discussions, and in legal terms. In addition, we consider how stories about race and affirmative action circulate within American popular culture such as film during this time period. Finally, we will consider the future of this public policy.

Style: 40% Lecture, 10% Film/Video, 20% Discussion, 20% Small Group Activities, 10% Student Presentation.**Grading:** 30% mid exam, 50% reports/papers, 10% in-class presentation, 10% class participation.**AMST 2011 The United States since September 11****3 credit(s); Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme;****Instructor:** Karjanen,David J

Description: The attacks on the World Trade Center and the Pentagon on September 11th are events which suspended the normal workings of the country economically, politically, and culturally. This course explores the historical context of 9/11, situating the attacks in US military, diplomatic, and geopolitical histories. We will explore questions such as how 9/11 is similar or different from other attacks on the United States or US interests, what the historical relationship of terror to U.S. foreign policy, and how different countries have viewed the events. The cultural importance of political events since September 11th will be examined through an historical understanding of past conflicts, particularly how wars have shaped the nation's understanding of itself, its enemies, and its place in the world. The class will also look how 9/11 has been remembered and

how the politics of memory shape notions of citizenship and nationhood. We will examine responses to 9/11 and its aftermath in art, literature, and film, which will also serve as a unique introduction to the interdisciplinary methods characteristic of American Studies scholarship.

Style: 50% Lecture, 50% Discussion.**Grading:** 35% mid exam, 35% final exam, 30% reports/papers.**AMST 3001 Contemporary Perspectives on Asian America****3 credit(s); Meets CLE req of Cultural Diversity Theme;****Instructor:** Fajardo,Kale Bantigue

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

Style: 30% Lecture, 30% Film/Video, 40% Discussion.**Grading:** 40% reports/papers, 40% class participation, 20% other evaluation. Final Project**AMST 3113W America's Diverse Cultures****3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive;****Instructor:** Currie,Scott

Description: Sound, Community, and Identity: What do we hear when we listen to the sounds of a nation confronting and celebrating its own ever-increasing diversity? What can music, and the arts tell us about how communities construct, project, and even empower themselves through performance? In this class, we will combine a focus on the roles music and associated expressive cultural practices play in everyday life, with an appreciation of the particular socio-historical legacies of conquest, slavery, and immigration, in order to explore the ways in which ethnic identities are imagined, embodied, produced, and consumed. In addition to characteristic cultural performances of nationally prominent European-, African-, Asian-, and Latin-American ethnic groups, we will also consider those of local communities (e.g. Hmong, Somali, Liberian, Native American, et al.) in the Twin Cities metropolitan area.

Style: 60% Lecture, 10% Film/Video, 30% Discussion.**Grading:** 15% mid exam, 15% final exam, 45% reports/papers, 15% journal, 10% class participation.**Exam Format:** short answer/multiple choice**AMST 3114 America in International Perspective****3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of International Perspect Theme;****Instructor:** Murphy,Ryan P**Description:** Student may contact the instructor or department for information.**AMST 3252W American Popular Culture and Politics: 1900 to 1940****4 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive;****Instructor:** Brown,James Patrick**Description:** Student may contact the instructor or department for information.

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

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

Instructor: STAFF

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

Style: To be announced instructor will provide specific information

Grading: Grading will be determined by to be announced instructor

AMST 3993 Directed Studies

1-9 credit(s), max credits 9, 1 completion allowed; prereq instr consent;

Instructor: STAFF

Description: Arrangements must be made with the professor who oversees the project.

AMST 4101 Gender, Sexuality, and Politics in America

3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core;

Instructor: STAFF

Description: Ways public and private life intersect through the issues of gender, sexuality, family, politics, and public life; ways in which racial, ethnic, and class divisions have been manifest in the political ideologies affecting private life. Class time, workload, grading and exam format are determined by instructors. The focus of each instructor varies with the instructor's expertise.

Style: Will be determined by course instructor

Grading: Will be determined by instructor

AMST 4961 Proseminar I

3 credit(s); prereq AmSt jr or AmSt sr or instr consent ;

Instructor: Pierce, Jennifer L

Description: The year-long senior seminar is designed as a capstone course for your major. Its purpose is to acquaint you, in some greater depth, with many of the key debates and developments of the field of American studies, and to learn about its central methodologies. Not only will you have the opportunity to critically reflect on these ideas and approaches, but you will study them with an eye to developing your own research project that you will undertake during the spring semester. In contrast to other seminars that might focus on a time period, issues such as war or immigration, or specific types of culture, we are focusing on the field itself, and so the seminar will probe texts in order to understand how the scholars went about raising and solving certain issues.

Style: 20% Lecture, 60% Discussion, 20% Student Presentation. seminar

Grading: 30% final exam, 50% reports/papers, 20% in-class presentation.

AMST 5920 Topics in American Studies: Writing in American Indian Studies

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

Instructor: Child, Brenda J

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

AMST 8201 Historical Foundations of American Studies

3 credit(s); prereq grad AmSt major;

Instructor: Ferguson, Roderick A

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

AMST 8920 Topics in American Studies: Thinking Through Transnationalism

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

Instructor: Castellanos, Bianet

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

Anatomy

6-125 Jackson Hall

ANAT 3001 Human Anatomy

3 credit(s); prereq [BIOL 1002W or BIOL 1009 or BIOL 2002 or equiv], at least soph credit will not be granted if credit

received for: Anat 3001/Anat 3301/Anat 3601/INMD 3001/INMD 3301; Credit will not be granted if credit has been received for: ANAT 3611;

Instructor: Bauer, G Eric

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

ANAT 4900 Directed Studies in Anatomy

S-N only, 1-6 credit(s), max credits 18, 3 completions allowed; prereq instr consent ;

Instructor: Weinhaus PhD, Anthony James

Description: Intended for students who have successfully completed ANAT 3001/ 3301 or ANAT 3601/ 3611 and have arranged to conduct an extensive research project with course director or have been selected as a Teaching Assistant. Requires course directors approval.

Style: 90% Laboratory, 10% Service Learning. At least 60 hours of laboratory required

Grading: S/N based upon hours completed in lab.

ANAT 6050 Dental Gross Anatomy

A-F only, 6.8 credit(s); prereq Dental student or instr consent ;

Instructor: Cook, Mark S.

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

Anesthesiology

B-515 Mayo

ANES 8269 Research in Anesthesia

1 credit(s);

Instructor: Palahniuk, Richard John

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

Animal Science

305 Haecker Hall

ANSC 1001 Orientation to Animal Science

S-N only, 1 credit(s);

Instructor: Seykora,Anthony James

Description: Animal Science Orientation is a Student Learning Community (SLC) that promotes positive academic and social relationships with faculty and other new students both in and out of the classroom. During the course of the semester, students will be introduced to a variety of services and opportunities found at the University of Minnesota and within the Animal Science major. Particular emphasis will be placed upon study skills needed to be successful in certain courses. Additional time will be spent upon understanding the Animal Science major more fully and career options within it.

ANSC 1007 Horse in Your Backyard

A-F only, 2 credit(s); Credit will not be granted if credit has been received for: AGRO 1007;

Instructor: Hathaway,Marcia R

Description: Role of horses in society. How to keep a horse well fed and healthy. Nutrition, feedstuffs, pasture, health. How to seek/interpret information on vaccination, worming, nutrition, grazing management, hay selection, manure handling, and use of dietary feed additives/enhancers.

ANSC 1011 Animals and Society

3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Environment Theme;

Instructor: Seykora,Anthony James

Description: This course addresses contemporary issues that are impacting animal agriculture. Major issues include the safety, nutritional value and health related issues of animal products in the human diet; animal behavior, welfare, and rights; organic vs. conventionally produced food; genetically enhanced foods; and the changing, industrialized structure of the livestock industry. The main focus is on livestock species, but care, management, and welfare of companion animals and wildlife are also a part of the course. Guest speakers from the livestock/food industries and animal welfare groups are an integral part of the course.

Style: 70% Lecture, 30% Discussion.

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

Exam Format: Short answer/true and false/multiple choice

ANSC 1511 Food Animal Products for Consumers

3 credit(s);

Instructor: Rozeboom,Kyle James

Description: Introduction to the compositional variation, processing, selection, storage, cookery, palatability, nutritional value, and safety of red meat, poultry, fish, and dairy products.

ANSC 2011 Dairy Cattle Judging

2 credit(s); prereq instr consent;

Instructor: Hansen,Leslie Bennett

Description: Evaluation of dairy cows and heifers on the basis of physical appearance. Training in oral justifications of placings of classes of animals. Field trips to many dairy farms in Minnesota, Iowa, and Wisconsin to evaluate dairy animals. Most students enrolling in this course have interest in participating in the Intercollegiate Dairy Cattle Judging Teams program. No previous dairy cattle judging experience is required, but is highly recommended.

Style: 100% Laboratory. Placings of classes and oral justification of placings.

Grading: Placings of classes and oral justification of placings.

ANSC 2013 Beginning Livestock Judging

2 credit(s); prereq [Soph or jr or sr], instr consent ; 2012 recommended;

Instructor: Rozeboom,Kyle James

Description: Visual evaluation of beef cattle, swine, and sheep for type, muscling, degree of finish, structure, and soundness. Short oral presentations. Preparation for collegiate livestock judging competition.

ANSC 2055 Horse Health Management

2 credit(s);

Instructor: Ward,Christie

Description: Horse Health & Management: This course is designed to develop knowledge and practical skills related to

general horse management and health maintenance through a combination of lectures, class discussions, student presentations, and hands-on skill development sessions. Management strategies will include lectures and labs on horse breeds and uses, anatomy and conformation, horse behavior, feeding management, and facility management. Time will also be devoted to an exploration of different career options and business opportunities in the horse industry. Strategies for prevention of disease will emphasize environmental hygiene, principles of good nutrition for horses, parasite control, and prevention of infectious disease through vaccination. Hands-on sessions are designed to develop practical skills such as body condition scoring, estimation of body weight, intramuscular injections, and bandaging techniques. Please note that this course will not provide extensive instruction in equine nutrition or the management of breeding stallions, pregnant mares, and foals. Comprehensive coverage of these subjects is available in ANSC 3007 Equine Nutrition (Dr. Marcia Hathaway, instructor) and VPM 3700 Equine Reproduction and Breeding Management (Dr. Scott Madill, instructor). These courses are offered in Spring Semester. NOTE: The combination of ANSC 2055 Horse Health Management and ANSC 3007 Equine Nutrition (Dr. Marcia Hathaway, instructor) meets the management requirement for Equine Option students.

Style: 60% Lecture, 10% Discussion, 20% Laboratory, 10% Small Group Activities.

Grading: 40% mid exam, 20% final exam, 15% special projects, 15% quizzes, 10% class participation. Three group presentation projects (each worth 5% of the final grade) and three take-home assignments (each worth 5% of the final grade). Three exams, each worth 20% of the final grade.

Exam Format: Multiple-choice, short answer, and true-false

ANSC 2401 Animal Nutrition

3 credit(s);

Instructor: Stern,Marshall D

Description: Introduction to the principles of animal nutrition discussed on a comparative species basis including classification and function of the various nutrients (carbohydrates, protein, lipids, minerals and vitamins); use of nutrients for body maintenance, growth, egg production, gestation, and lactation; comparative study of the digestive systems of farm animal species; nutrient requirements and allowances for farm animals. The course is targeted for undergraduates seeking an understanding of how feedstuffs are combined to meet the nutrient needs of animals and appreciate the practical application of nutrition to farm animals species.

Style: 100% Lecture.

Grading: 100% other evaluation. 5 EXAMS, WITH EACH EXAM WORTH 20% OF THE GRADE.

ANSC 3052 Equine Anatomy and Exercise Physiology

4 credit(s); prereq Jr or sr; 3301 recommended;

Instructor: Ward,Christie

Description: This course is designed to provide upper level undergraduate students with a detailed scientific exploration of equine anatomy and exercise physiology. It will focus on the interrelationship between physical structure and function, emphasizing the ways in which specialized aspects of the horse's anatomy and physiology contribute to its unique athletic performance capabilities. The course will review the adaptive responses of the muscular, skeletal, cardiovascular, and respiratory systems to physical training programs, and introduce the principles of physical conditioning. Study of equine anatomy will focus primarily on the limbs, head, teeth, and gastrointestinal tract. Labs will involve identification of anatomical landmarks in live horses; examination of dried anatomical specimens; dissection of fresh anatomical specimens; determination of age by examination of the teeth; and identification and localization of lameness in horses. Please note that this course will not address reproductive anatomy and physiology. Comprehensive coverage of this subject is available in VPM 3700 Equine Reproduction and Breeding Management (Dr. Scott Madill, instructor).

Style: 60% Lecture, 15% Discussion, 25% Laboratory.

Grading: 45% mid exam, 15% final exam, 30% quizzes, 10% class participation. There will be 3 mid-term exams, each worth

15% of the final grade. There will be 3 take-home quizzes, each worth 10% of the final grade.

Exam Format: Multiple choice, short answer, and true-false

ANSC 3221 Animal Breeding

4 credit(s);

Instructor: Seykora,Anthony James

Description: This course is the application of qualitative and quantitative genetic principals to animal breeding. Topics include Mendelian genetics, computation of genetic values from an individual's own performance and relatives, selection indexes, inbreeding and relationships, crossbreeding and development of a breeding program. The laboratory portion of the course is held in the computer lab. Computer simulation programs enhance the learning experience of the students.

Style: 60% Lecture, 15% Discussion, 25% Laboratory.

Grading: 30% mid exam, 15% final exam, 15% special projects, 15% quizzes, 25% problem solving.

Exam Format: true-false, multiple choice, problem solving

ANSC 3301 Systemic Physiology

4 credit(s); prereq [BIOL 1009 or equiv], [CHEM 1011 or CHEM 1021];

Instructor: Wheaton,Jonathan E

Description: This is an immediate level course that covers the functions of the major organ systems: the nervous system, muscles, cardiovascular, respiration, renal, endocrinology, blood, immunology and reproduction. The course is intended for upper division undergraduate students.

Style: 65% Lecture, 35% Laboratory.

Grading: 53% mid exam, 13% final exam, 13% quizzes, 21% laboratory evaluation.

Exam Format: One essay-type exam, others are multiple choice

ANSC 3305 Reproductive Biology in Health and Disease

4 credit(s); prereq Biol 1009 or equiv;

Instructor: Mauro PhD,Laura J.

Description: This course is intended to provide students with an understanding of the basic principles of reproductive physiology emphasizing mammalian species. An introduction to the "chemical messengers" of reproduction--their synthesis, mechanism of action and regulation--will provide a foundation for a detailed study of topics, such as sexual differentiation, the functioning of the female and male reproductive systems, the physiology of pregnancy and birth, and reproductive senescence. These topics will be expanded to incorporate unique aspects of reproduction in domestic and wild animals and humans, along with relevant examples of the pathophysiology of reproductive diseases. The students will also be introduced to the current science and issues of applied reproductive biotechnologies. This course is targeted for undergraduate majors, pre-professionals and non-majors who want a better understanding of the basic and applied concepts of reproduction in animals and humans.

Style: 75% Lecture, 10% Discussion, 15% Laboratory.

Exam Format: Combination of short answer and multiple choice

ANSC 3307 Artificial Insemination Techniques

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

Instructor: Seykora,Anthony James

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

ANSC 3609 Business Planning for Animal Enterprises

2 credit(s);

Instructor: Reneau,Jeffrey Kimball

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

ANSC 4092 Special Problems in Animal Science

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

Instructor: Seykora,Anthony James

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

ANSC 4096 Professional Experience Program: Internship

S-N only, 1-3 credit(s), max credits 6; prereq CFANS undergrad, instr consent , agreement form;

Instructor: Linn,Jim

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

ANSC 4096 Professional Experience Program: Internship

S-N only, 1-3 credit(s), max credits 6; prereq CFANS undergrad, instr consent , agreement form;

Instructor: Hansen,Leslie Bennett

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

ANSC 4096 Professional Experience Program: Internship

S-N only, 1-3 credit(s), max credits 6; prereq CFANS undergrad, instr consent , agreement form;

Instructor: Seykora,Anthony James

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

ANSC 4096 Professional Experience Program: Internship

S-N only, 1-3 credit(s), max credits 6; prereq CFANS undergrad, instr consent , agreement form;

Instructor: White,Michael Ernest

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

ANSC 4096 Professional Experience Program: Internship

S-N only, 1-3 credit(s), max credits 6; prereq CFANS undergrad, instr consent , agreement form;

Instructor: Shurson,Gerald C

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

ANSC 4096 Professional Experience Program: Internship

S-N only, 1-3 credit(s), max credits 6; prereq CFANS undergrad, instr consent , agreement form;

Instructor: Mauro PhD,Laura J.

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

ANSC 4096 Professional Experience Program: Internship

S-N only, 1-3 credit(s), max credits 6; prereq CFANS undergrad, instr consent , agreement form;

Instructor: Hathaway,Marcia R

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

ANSC 4096 Professional Experience Program: Internship

S-N only, 1-3 credit(s), max credits 6; prereq CFANS undergrad, instr consent , agreement form;

Instructor: Rozeboom,Kyle James

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

ANSC 4096 Professional Experience Program: Internship

S-N only, 1-3 credit(s), max credits 6; prereq CFANS undergrad, instr consent , agreement form;

Instructor: Ward,Christie

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

ANSC 4096 Professional Experience Program: Internship

S-N only, 1-3 credit(s), max credits 6; prereq CFANS undergrad, instr consent , agreement form;

Instructor: Raeth-Knight,Mary Louise

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

ANSC 4096 Professional Experience Program: Internship

S-N only, 1-3 credit(s), max credits 6; prereq CFANS undergrad, instr consent , agreement form;

Instructor: Crooker,Brian A

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

for information.

ANSC 4096 Professional Experience Program: Internship

S-N only, 1-3 credit(s), max credits 6; prereq CFANS

undergrad, instr consent , agreement form;

Instructor: Stern, Marshall D

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

ANSC 4096 Professional Experience Program: Internship

S-N only, 1-3 credit(s), max credits 6; prereq CFANS

undergrad, instr consent , agreement form;

Instructor: Foster, Douglas N

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

ANSC 4096 Professional Experience Program: Internship

S-N only, 1-3 credit(s), max credits 6; prereq CFANS

undergrad, instr consent , agreement form;

Instructor: Ponce de Leon, F. Abel

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

ANSC 4096 Professional Experience Program: Internship

S-N only, 1-3 credit(s), max credits 6; prereq CFANS

undergrad, instr consent , agreement form;

Instructor: O'Grady PhD, Scott M

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

ANSC 4096 Professional Experience Program: Internship

S-N only, 1-3 credit(s), max credits 6; prereq CFANS

undergrad, instr consent , agreement form;

Instructor: Dayton, William R

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

ANSC 4096 Professional Experience Program: Internship

S-N only, 1-3 credit(s), max credits 6; prereq CFANS

undergrad, instr consent , agreement form;

Instructor: Wheaton, Jonathan E

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

ANSC 4096 Professional Experience Program: Internship

S-N only, 1-3 credit(s), max credits 6; prereq CFANS

undergrad, instr consent , agreement form;

Instructor: El Halawani PhD, Mohamed E

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

ANSC 4096 Professional Experience Program: Internship

S-N only, 1-3 credit(s), max credits 6; prereq CFANS

undergrad, instr consent , agreement form;

Instructor: Rozeboom, Gretchen Diane

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 4099 Special Workshop in Animal Science

1-4 credit(s), max credits 24, 6 completions allowed;

Instructor: DiCostanzo, Alfredo

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

ANSC 4401 Swine Nutrition

3 credit(s); prereq 2401, 3511 recommended;

Instructor: Shurson, Gerald C

Description: This course involves lectures, discussions and problem solving focused on key nutrition and feeding program

management concepts related to developing and evaluating life cycle feeding programs for swine. Diet formulation and evaluation along with estimating nutrient requirements in each stage of production using computer software are key activities of the course. Both undergraduate and graduate students, with some previous coursework in nutrition, who want a comprehensive understanding of all the major considerations of providing optimum cost effective nutrition to swine in all phases of production, are encouraged to take this course.

Style: 50% Lecture, 25% Discussion, 25% Laboratory.

Grading: 5% reports/papers, 30% problem solving, 65% other evaluation. exams

Exam Format: essay, multiple choice, matching, short answer, true/false, problem solving

ANSC 4404 Applied Dairy Nutrition

2 credit(s); prereq AnSc 4403 recommended;

Instructor: Linn, Jim

Description: This course is the application of fundamental nutrition principles (Animal Nutrition, AnSc 2401) and Ruminant Nutrition, AnSc 4403) to dairy cattle nutrition. The course will cover nutrient requirements of dairy cattle, feed ingredient selection and usage, formulation of lactating cow, dry cow and growing heifer diets using least cost and model computer programs. The course also will involve analysis of case study feeding programs used on dairy farms. Both undergraduate and graduate students who want a comprehensive practical understanding of nutrition programming on dairy farms are encouraged to enroll. The course will include discussion, lecture, and use of computers to formulate and evaluate dairy rations.

Style: 20% Lecture, 30% Discussion. Computer use to formulate and evaluate dairy rations

Grading: 20% final exam, 20% class participation, 60% problem solving.

Exam Format: Exams will be homework problems related to formulation or evaluation of dairy rations.

ANSC 4603 Beef Production Systems Management

4 credit(s); prereq Concurrent registration is required (or allowed) in 4613;

Instructor: DiCostanzo, Alfredo

Description: How to resolve problems and manage cow-calf, stocker, or feedlot operations. Various segments of the beef industry and their current challenges. Nutrition, reproduction, genetics, and health as they relate to beef cattle production. Students evaluate a beef cattle enterprise and contribute solutions to problems in areas of marketing, selection, reproduction, nutrition, or health management.

ANSC 4603 Beef Production Systems Management

4 credit(s); prereq Concurrent registration is required (or allowed) in 4613;

Instructor: DiCostanzo, Alfredo

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

ANSC 4613 Advanced Beef Production Systems Management

2 credit(s); prereq 4603;

Instructor: DiCostanzo, Alfredo

Description: Half semester course. Student enterprise-analysis teams evaluate a beef cattle enterprise and contribute solutions to problems in areas of marketing, selection, reproduction, nutrition, or health management.

ANSC 4613 Advanced Beef Production Systems Management

2 credit(s); prereq 4603;

Instructor: DiCostanzo, Alfredo

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

ANSC 5200 Statistical Genetics and Genomics

4 credit(s); prereq [Stat 3021 or equiv], [Biol 4003 or equiv]; Credit will not be granted if credit has been received for:

CMB 5200;

Instructor: Da, Yang

Description: Student may contact the instructor or department

for information.

ANSC 5700 Cell Physiology

A-F only, 4 credit(s); prereq [Two semesters of physics/chemistry, calculus, one semester of systems-level physiology] or instr consent ;

Instructor: Palmer, Melissa L

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

ANSC 5700 Cell Physiology

A-F only, 4 credit(s); prereq [Two semesters of physics/chemistry, calculus, one semester of systems-level physiology] or instr consent ;

Instructor: O'Grady PhD, Scott M

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

ANSC 8134 Ethical Conduct of Animal Research

A-F only, 3 credit(s); prereq Grad student or prof school student or instr consent ; Credit will not be granted if credit has been received for: CMB 8134;

Instructor: Molitor, Thomas William

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

ANSC 8194 Research in Animal Genetics

1-3 credit(s), max credits 3, 1 completion allowed; prereq instr consent;

Instructor: Hansen, Leslie Bennett

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

ANSC 8330 Concepts and Developments in Animal Nutrition

A-F only, 1-2 credit(s), max credits 2; prereq instr consent ;

Instructor: Stern, Marshall D

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

ANSC 8510 Graduate Seminar

S-N only, 1-2 credit(s), max credits 12, 12 completions allowed; prereq instr consent;

Instructor: Foster, Douglas N

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/Lab Core;

Instructor: Thompson, Robert Gordon

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

ANTH 1001 Human Evolution

4 credit(s); Meets CLE req of Biological Sciences/Lab Core;

Instructor: Tostevin, Gilbert B

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 also shapes our own anatomy and behavior. Our goal is to reconstruct the evolutionary history of our lineage, and the anatomy and behavior of our ancestors. The first half of the course is based firmly in the present, and will give you a strong background in evolutionary theory: Natural Selection, basic genetics, principles of behavioral biology and the comparative anatomy of living organisms (primarily monkeys and apes). In the second half of the course we will 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? While learning the most up-to-date synthesis of paleoanthropology's answers to these questions, students in this course will also learn first-hand how to apply the analytical methods used by paleoanthropologists.

Style: 50% Lecture, 50% Laboratory.

Grading: 35% mid exam, 20% final exam, 30% laboratory evaluation, 15% other evaluation. in-class active-learning assignments

Exam Format: multiple choice

ANTH 1001H Honors: Human Evolution

4 credit(s); prereq honors; Meets CLE req of Biological Sciences/Lab Core;

Instructor: Tostevin, Gilbert B

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 also shapes our own anatomy and behavior. Our goal is to reconstruct the evolutionary history of our lineage, and the anatomy and behavior of our ancestors. The first half of the course is based firmly in the present, and will give you a strong background in evolutionary theory: Natural Selection, basic genetics, principles of behavioral biology and the comparative anatomy of living organisms (primarily monkeys and apes). In the second half of the course we will 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? While learning the most up-to-date synthesis of paleoanthropology's answers to these questions, students in this course will also learn first-hand how to apply the analytical methods used by paleoanthropologists.

Style: 50% Lecture, 50% Discussion.

Grading: 45% mid exam, 25% final exam, 30% laboratory evaluation.

Exam Format: multiple choice

ANTH 1001H Honors: Human Evolution

4 credit(s); prereq honors; Meets CLE req of Biological Sciences/Lab Core;

Instructor: McNulty, Kieran P

Description: Humans are unique in the animal world. In this class, we will take a journey through time to examine the evolution of humans, and how natural selection also shapes our own anatomy and behavior. Our goal is to reconstruct the evolutionary history of our lineage, and the anatomy and behavior of our ancestors. The first half of the course is based firmly in the present, and will give you a strong background in evolutionary theory: Natural Selection, basic genetics, principles of behavioral biology and the comparative anatomy of living organisms (primarily monkeys and apes). In the second half of the course we will 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? While learning the most up-to-date synthesis of paleoanthropology's answers to these questions, students in this course will also learn first-hand how to apply the

analytical methods used by paleoanthropologists.

Style: 50% Lecture, 50% Discussion.

Grading: 45% mid exam, 25% final exam, 30% laboratory evaluation.

Exam Format: multiple choice

ANTH 1003V Understanding Cultures: Honors

4 credit(s); prereq Honors; Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core; meets CLE req of Writing Intensive;

Instructor: Dean,Diana M

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

ANTH 1003W Understanding Cultures

4 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core; meets CLE req of Writing Intensive;

Instructor: STAFF

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

Style: 75% Lecture, 25% Discussion.

Exam Format: multiple choice; essay

ANTH 1005W Introduction to Cultural Diversity and the World System

4 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of International Perspect Theme; meets CLE req of Writing Intensive;

Instructor: Lipset,David M

Description: This course will focus on relations between culture and the globalization process. How are migration, communication, and global capitalism changing local understandings of identity, ways of life, etc.? The course will look at peoples and cultures inside and outside of the U.S. It is an introductory course in cultural anthropology which targets both students seeking to fulfill CLE requirements and prospective majors. Teaching will involve lecture format, multi-media presentations and active learning in recitation sections. The books will include a textbook, such as "On Being Different" by Kottak and a reader, such as "Talking About People" by Howland and Gordon, eds. There will also be two writing assignments, based on such books as "New Pioneers in the Heartland: Hmong Life in Wisconsin," by Koltyk. In addition, there will be 3 multiple choice mid-terms.

Style: 50% Lecture, 25% Discussion. video presentations

Grading: 60% mid exam, 20% final exam, 20% reports/papers. also 10% class participation and 10% lab work

Exam Format: multiple choice

ANTH 1908W Freshman Seminar: Genes R Us? Issues in the Age of the New Genetics

A-F only, 3 credit(s); prereq freshman; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Writing Intensive;

Instructor: Taussig,Karen-Sue

Description: In this seminar we will explore the development of genetics in the 20th century in its social and historical contexts. The seminar introduces the idea that the current explosion of molecular knowledge is creating what has been called ?geneticization,? a world view in which human diversity is increasingly ascribed to genetic causality and the body, health, and illness are conceptualized in terms of genetics. The seminar is organized to enable students to critically engage with contemporary genetic ideas and practices and to explore how a range of scholars are grappling with the issues raised by this new knowledge. Such issues include aspects of social life such as kinship, health care, reproduction, disease/disorder, normalcy, and personhood and how these are in the process of being reshaped as knowledge and practices associated with

genetics progress.

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 3005W Language, Culture, and Power

4 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Writing Intensive;

Instructor: Valentine,David

Description: The "English Only" movement in the U.S. has been attempting for years to have English recognized as the nation's official language.... On a daily basis, people with non-standard accents are asked where they come from.... In New Guinea, languages which have thrived for centuries are dying out... People claim that they can "tell" if someone is gay or straight by the way they speak. While language is a universal feature of human culture, and a vital resource for humans' ability to describe and relate to the world around them, language is also deeply political in nature. Language, Culture, and Power aims to consider language as a social and political practice from an anthropological perspective which pays close attention to language in its contexts of use. The complex relationship between language, culture, and power raises important questions: how does language shape our view of the world? What relations of power are produced in language use and beliefs about language? How is language used creatively to produce social worlds? What are the politics of using one variety of language over another? What are the politics of writing, and how do debates about spoken language carry over to the written word? This course seeks to explore these and other questions from a variety of perspectives, including language and world view, the use of metaphors in everyday speech, language socialization, language shift, and language and identity. Students will be required to tape-record and transcribe a conversation to be used as the basis for sociolinguistic analysis through the semester. Above all, we will be concerned with the relationships of power that are deeply enmeshed in everyday language use, and consequently, the major themes of this class revolve around the politics of language and language ideologies.

Style: 60% Lecture, 10% Film/Video, 10% Discussion, 20% Laboratory.

Grading: 85% reports/papers, 10% class participation, 5% other evaluation. The "other evaluation" refers to your production of a transcription from a taped conversation

Exam Format: There are no in-class exams for this course

ANTH 3009 Rise of Civilization

3 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core;

Instructor: Moyer,Alexandra Caroline

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 Writing Intensive;

Instructor: Beeman,William O

Description: This course will focus on anthropological methods of analyzing and interpreting Middle Eastern cultures and societies. The study of kinship, tribal structure, social organization and ethnic group relations are all fundamental techniques in the analysis of Middle Eastern society, but these are rarely dealt with in the traditional Middle East studies curriculum. Although Judaic, Christian and Zoroastrian traditions are important for shaping Middle Eastern life, and will be dealt with during the course, the Middle East as a unified culture area is dependent on Islamic civilization. Therefore Islamic culture will be given the greatest emphasis in readings and lectures. In this course, particular emphasis will be placed on the examination of literary elements in Middle Eastern life from pre-Islamic times to the present. The historical development of ritual practice in Islam

will constitute a primary focus. This seminar will have a significant research component, with opportunities for the presentation of original research on the topics covered. One principal aim of the course is to help you understand Middle Eastern culture as an "insider" with all of the normal cultural understandings a person born and raised in the region would have. The Course will be divided into two sections: I. Cultural Heritage of the Middle East II. Traditional Middle Eastern Society and its Modern Forms.

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

Grading: 20% mid exam, 30% reports/papers, 40% special projects, 10% class participation. The course will have a final research paper rather than a final exam. This is the 40% special projects grade reflected above. There will be two short papers, each of which will count for 15% of the grade for a total of 30%
Exam Format: The Mid-term examination will consist of short answers, a geography quiz and three short essays.

ANTH 3027W Archaeology of Prehistoric Europe

3 credit(s); Credit will not be granted if credit has been received for: ANTH 5027W; Meets CLE req of Writing Intensive;

Instructor: Wells, Peter S

Description:

Style: 95% Lecture, 5% Discussion.

Grading: 30% mid exam, 25% final exam, 40% reports/papers, 5% quizzes.

ANTH 3306W Medical Anthropology

A-F only, 3 credit(s); prereq 1003 or 1005 or entry level social science course recommended; Meets CLE req of Cultural Diversity Theme; meets CLE req of International Perspective Theme; meets CLE req of Writing Intensive;

Instructor: Taussig, Karen-Sue

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

ANTH 3401 The Human Fossil Record

A-F only, 3 credit(s); prereq 1001 or instr consent ; Credit will not be granted if credit has been received for: ANTH 5401;

Instructor: Tappen, Martha

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

ANTH 3980 Topics in Anthropology: Anthropology of Hip-Hop

3 credit(s), max credits 6;

Instructor: Riviere, Melisa

Description: The course covers the historical trajectory of hip-hop from its inception in New York City during the 1970's in the form of four elements - break dancing, rap, turntablism, and graffiti art - to its contemporary identity as a global youth phenomenon. The historical development of hip-hop will be accompanied with the analysis of scholarly works ranging from contemporary academic research to old-school rap lyrics. Literature, lectures, films and multi-media projects will individually analyze each element and question the four-element paradigm that defines hip-hop today. We will review legal cases filed against hip-hop artists and/or their publications as well as examine the role gender, class, politics, urban geography, economics, and race play in the use of hip-hop as a tool for social change versus a capitalist marketing device. Weekend workshops with local well-known hip-hop artists will amplify the theoretical focus of the course to an applied learning of lyricism, break dance, DJing, and aerosol art. The course aims to re-structure stereotypes and offer a deeper perspective into how hip-hop simultaneously defines the identities of individuals as well as the consciousness of masses. Previous class highlights from 2006 & 2008 include: ? Hands-on weekend workshops with community hip-hop artists Desdama, DJ Fundamentalist, Carnage, b-boy Daylight, & aerosol artist CHEN (AKB). ? In class speakers filmmaker Eli Jacobs-Fantauzzi, producer Will Ways, MC/singer/songwriter Maria Isa, & DJ Drea. ? Live interviews with Fab 5 Freddy, b-girl Rokafella, & Jeff Chang.

ANTH 3980 Topics in Anthropology: On Human Nature

3 credit(s), max credits 6;

Instructor: Sarles, Harvey B

Description: Human Nature: What is the human? What is "not-human," what differences (and similarities) between us and other species? How we think about and explore the human is likely the base and foundation of all of our being and ideas. "Man is the measure of all things" -- said Protagoras. Yet the nature of the human -- the "measurer" of all things -- remains unclear, more vague than we usually think. Our ways of depicting the human are many, but our ways of thinking about ourselves are "stuck" in realms of mostly ancient ideas. We fix our attention on very few forms of explanation for how we are and "should be." Rather than actually studying the human face and body, for example, we focus on ideas of how humans are presumed to be "unique": claimed to be our "mind" or "brain" and "language" and "thought" -- or our "souls" in religious contexts. Still, our bodies are thought to be similar -- of the same "stuff" -- as other species. Here, again, ancient ideas reign, and we may look but don't see, much of how we are. The fact that we are social-interactive creatures - bodies in the world with others' bodies - is just beginning to be noted: "Attachment Theory." We humans are deeply bonded with our m/others, for long periods in our early development. How we "emerge," have, or become "conscious selves" -- how (or if) we are moral -- remains puzzling. Last, but not least, there is much history and currency of "politics" -- all of which expands in this global moment of different peoples, cultures...and bodies. Are we certain of us "fixed" or pre-destined in how we are? Or are we all flexible and able to grow? Ideas: ancient, mostly from Plato and Aristotle, still reign. What ideas, why/how so powerful? How to see how we are, from outside and inside? With ideas flowing in from the entire world, do we rethink Human Nature? The course: Let's observe - others and ourselves with bodily practice, usually yoga. Infants-in attachment with m/others: the female and male body, gender. Explore our senses. Ask what are faces, how do they "work," how do they "become" us? We will explore the enormous complexity of the human body -- from the face, to hands, to the notion that we live effectively "out-of-balance," and are so very "clever" in our seemingly obvious being. Texts: "Woman" -- Natalie Angier (the mostly "absent" gender in Human Nature study) "The Blank Slate" -- Steven Pinker (a "critical" reading) Regular presence - as we engage in dialogue. Requirements: 2 Essays/Projects: Midsemester and Final
Style: 100% Discussion.

Grading: 80% reports/papers, 10% attendance, 10% class participation.

ANTH 3980 Topics in Anthropology: International Heritage Management

3 credit(s), max credits 6;

Instructor: Adams, Jeffrey L

Description: Our heritage is all around us. It ranges from historic buildings to archaeological sites, from shipwrecks to artifacts, from traditional costumes, music and dance to folktales, myth and language. While these and other cultural resources may have immense personal, social, economic and political value, their disappearance is inevitable. How this process of loss is perceived and dealt with varies from country to country and culture to culture. Increasingly, however, Western approaches to the preservation of archaeological and architectural properties are gaining global preeminence, a development that is not without controversy. This course invites you to critically explore the problems and possibilities of international heritage management in the intellectual, institutional and regulatory context in which it occurs. In discussions ranging from the technical to the philosophical, students will be introduced to key concepts, methods, instruments and properties exemplifying the historical development and contemporary practice of preservation within and between nations. While we will focus primarily on archaeological and architectural remains, students' own disciplinary interests will help to shape the content and direction of the course.

ANTH 3980 Topics in Anthropology: Art, Politics, and Diversity

3 credit(s), max credits 6;

Instructor: Wolbert, Barbara

Description: In this course on the intersection of visual cultural studies and German and European studies, we will focus on art events and cultural institutions - such as exhibitions and museums - in the context of globalization. We will deal with the representation of racial, national, cultural and religious diversity and its representation in the public sphere. In particular, we will concentrate on a variety of forms of expressive culture on the politics of exclusion and inclusion in German art worlds. We will describe the appropriation of concepts such as integration and multiculturalism into political discourses in Germany. Through exhibits of art referred to as "international art", "global art", "ethnic art", "Non-Western art", we will analyze the notion of otherness at a particular point in time and critically examine German cultural politics. Thus, we will take a critical view of visual culture, political power and alterity. The course addresses this issue from a diachronic perspective: our discussions will follow a sequence of art exhibition cases from Imperial Germany, the Weimar Republic, Nazi Germany, the Cold War Germanys and Unified Germany. While the selection of catalogs and slides from exhibition sites focuses on the German case, the theoretical readings allow a more general introduction to German studies, cultural studies, and visual studies. You may take this course as an introduction to German cultural politics; it may also serve the interests and needs of students who are seeking to expand their knowledge of German culture and politics. This course aims furthermore at broadening your understanding of the place and role of art in society and raising your awareness of diversity issues and questions of representation. Working not only with texts, but also studying displays on site and dealing with visual images, you will be encouraged to formulate descriptions carefully, develop your own interpretations, and critically make use of the readings.

Style: 50% Lecture, 25% Discussion, 20% Student Presentation, 5% Field Trips.

Grading: 10% mid exam, 20% final exam, 40% reports/papers, 15% in-class presentation, 15% class participation.

Exam Format: Mid term: open questions/short answers expected; final exam: essay form (take-home-exam).

ANTH 3980 Topics in Anthropology: Global Migration and Photography

3 credit(s), max credits 6;

Instructor: Wolbert, Barbara

Description: In this course on the intersection of visual cultural studies and German and European studies, we will focus on art events and cultural institutions - such as exhibitions and museums - in the context of globalization. We will deal with the representation of racial, national, cultural and religious diversity and its representation in the public sphere. In particular, we will concentrate on a variety of forms of expressive culture on the politics of exclusion and inclusion in German art worlds. We will describe the appropriation of concepts such as integration and multiculturalism into political discourses in Germany. Through exhibits of art referred to as "international art", "global art", "ethnic art", "Non-Western art", we will analyze the notion of otherness at a particular point in time and critically examine German cultural politics. Thus, we will take a critical view of visual culture, political power and alterity. The course addresses this issue from a diachronic perspective: our discussions will follow a sequence of art exhibition cases from Imperial Germany, the Weimar Republic, Nazi Germany, the Cold War Germanys and Unified Germany. While the selection of catalogs and slides from exhibition sites focuses on the German case, the theoretical readings allow a more general introduction to German studies, cultural studies, and visual studies. You may take this course as an introduction to German cultural politics; it may also serve the interests and needs of students who are seeking to expand their knowledge of German culture and politics. This course aims furthermore at broadening your understanding of the place and role of art in society and raising your awareness of diversity issues and questions of representation. Working not only with texts, but also studying displays on site and dealing with visual images, you will be encouraged to formulate descriptions carefully, develop your own interpretations, and critically make use of the readings.

Style: 50% Lecture, 25% Discussion, 20% Student Presentation, 5% Field Trips.

Grading: 10% mid exam, 20% final exam, 40% reports/papers, 15% in-class presentation, 15% class participation.

Exam Format: Mid term: open questions/short answers expected; final exam: essay form (take-home-exam).

ANTH 4047 Anthropology of American Culture

3 credit(s);

Instructor: Valentine, David

Description: What is "American Culture"? Given the diversity of the histories, values, and identities of American people, what, if anything, can be said to draw us together as one culture? This course will seek to answer this question through an exploration of cultural politics in the United States in the 21st century, focusing particularly on racial, ethnic, gender, and class relations and conflicts, and on a variety of sites and situations including the workplace, family, poverty, consumption, immigration, and globalization. Readings will address contemporary issues such as battles over civil rights, the abortion debate, processes through which identities are constructed, and the effects of the global circulation of "America" as idea, image, and global force. For example, we will focus on the transnational and heterogeneous histories and relationships among multiple communities as well as the changing cultural values of the U.S. economy, through an examination of corporate downsizings and the nature of work, postindustrialism, the growing gap between the poor and the rich, and the current socio-economic recession. The course is interdisciplinary in that it draws on research and debates in sociology, history, cultural studies, American studies, and ethnic studies, in addition to those in anthropology. The course takes an ethnographic approach, asking what empirical research can add to our understanding of questions of belonging and exclusion in the United States. The course will be run as an undergraduate seminar, based predominantly upon student-driven discussion of readings, complemented by occasional lectures and videos. The course is meant for premajors, majors, and other interested students; it is suitable for intermediate and upper-level students from all fields.

Style: 20% Lecture, 80% Discussion.

Grading: 25% mid exam, 30% final exam, 15% reflection paper, 15% in-class presentation, 15% class participation.

ANTH 4051 Kinship, Gender, and Diversity

3 credit(s); prereq 1003 or 1005;

Instructor: Dean, Diana M

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

ANTH 4053 Economy, Culture, and Critique

3 credit(s); Credit will not be granted if credit has been received for: ANTH 8205; Meets CLE req of International Perspective Theme; meets CLE req of Social Science Core;

Instructor: Ho, Karen Z

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

ANTH 4071 Race, Culture, and Vision

A-F only, 3 credit(s); prereq 1003 or 1005 or 3003 or instr consent ;

Instructor: Penn, Mischa

Description: Examines four major orientations in the study of racism. (a). "Liberalists" (Montagu, Benedict) argued that race-beliefs cannot satisfy the test of evidence which scientifically-minded persons would find persuasive. Racism is a psychological phenomenon, and efforts to demonstrate the truth or falsity of race-beliefs are, therefore, beside the point. (b). In agreement with the liberalists, "social symbolists" (Voegelin), maintain that race-beliefs have no basis in fact. Voegelin argued, (1) that race-beliefs are symbolic constructions responsible for the formation and perduring solidarity of the group, and (2) reveal the ways in which the groups collective knowledge of "the other" is organized. (c). In contrast to the symbolists, the "sociodiscussive" approach (Goldberg) shifts the emphasis from "symbol" to "discourse", from idea and image to concrete acts embedded in ways of life which value aggression toward others

believed biologically and culturally inferior. Racist discourse is the practice which defines an "other", and the specific manner in which the latter is made vulnerable to political and legal strategies of exclusion. (d). The "phenomenological" approach (Fanon) focuses upon the transfiguring effects of racist practices in everyday life upon a recipient's self-perceptions.

Style: 75% Lecture, 25% Discussion.

Grading: 40% mid exam, 60% final exam.

Exam Format: essay (take home)

ANTH 4990 Topics in Archaeology: Seminar: Archival Analysis for Archaeologists

3 credit(s), max credits 6;

Instructor: Hayes, Katherine F. H.

Description: Anthropologists and many other social scientists are increasingly turning to the archives as a means to shed more light on contemporary circumstances, in the recognition that our histories, understood from many different perspectives, shape who we are and what we do now. Historical documents, photographs, maps, or other materials found in archives hold the potential to enlighten us on what was thought valuable enough to curate, and that which was used to construct historical narratives, but also a host of embedded and unquestioned values and ideas. For this reason, research in archives on questions of anthropological significance is valuable on two fronts: it can broaden our understanding of past contexts, but it also critically demonstrates history in its dual senses of 'the past' and 'that which is written about the past.' There is no better way to learn to critically read historical narratives and interpretations than to compare them to the process you engage in yourself. In this seminar, you will explore both the practical and theoretical issues involved in doing archival research as an anthropologist asking how these materials can (or cannot) speak to aspects of social experiences of individuals or groups, how such records operated as part of human social worlds, and how they relate to other traces of our past. You will learn methods for deriving meaning and biases in the archives, such as understanding context, source and authorship, assessing preservation issues, and recognizing structural exclusions in the records. Although the class is designated a seminar, it will also focus on practice and method.

Style: 10% Lecture, 60% Discussion, 15% Student Presentation, 15% Field Trips.

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

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 Writing Intensive;

Instructor: Beeman, William O

Description: This course will focus on anthropological methods of analyzing and interpreting Middle Eastern cultures and societies. The study of kinship, tribal structure, social organization and ethnic group relations are all fundamental techniques in the analysis of Middle Eastern society, but these are rarely dealt with in the traditional Middle East studies curriculum. Although Judaic, Christian and Zoroastrian traditions are important for shaping Middle Eastern life, and will be dealt with during the course, the Middle East as a unified culture area is dependent on Islamic civilization. Therefore Islamic culture will be given the greatest emphasis in readings and lectures. In this course, particular emphasis will be placed on the examination of literary elements in Middle Eastern life from pre-Islamic times to the present. The historical development of ritual practice in Islam will constitute a primary focus. This seminar will have a significant research component, with opportunities for the presentation of original research on the topics covered. One principal aim of the course is to help you understand Middle Eastern culture as an 'insider' with all of the normal cultural understandings a person born and raised in the region would have. The Course will be divided into two sections: I. Cultural Heritage of the Middle East II. Traditional Middle Eastern Society and its Modern Forms.

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

Grading: 20% mid exam, 30% reports/papers, 40% special projects, 10% class participation. The course will have a final research paper rather than a final exam. This is the 40% special projects grade reflected above. There will be two short papers, each of which will count for 15% of the grade for a total of 30%
Exam Format: The Mid-term examination will consist of short answers, a geography quiz and three short essays.

ANTH 5027W Origins of European Civilization

3 credit(s); Credit will not be granted if credit has been received for: ANTH 3027W; Meets CLE req of Writing Intensive;

Instructor: Wells, Peter S

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

ANTH 5244 Skeletal Materials for Archaeologists

A-F only, 4 credit(s); prereq 1001; Credit will not be granted if credit has been received for: ANTH 8244;

Instructor: Tappen, Martha

Description: This lecture/laboratory course emphasizes core skills in identification of bones to skeletal element and taxon, to the level of major mammalian taxonomic groups including humans, with emphasis on understanding bone biology, functional morphology, human meat-acquisition strategies, prey and predator behavior and archaeological site formation. There are weekly readings on the interpretation of archaeological bone. Students take weekly quizzes on bone identification and on the readings, keep an extensive laboratory notebook, and conduct an original research project on bone assemblages. ANTH 1001 or equivalent is a prerequisite.

Style: 20% Lecture, 20% Discussion, 60% Laboratory.

Grading: 10% final exam, 40% special projects, 25% quizzes, 25% laboratory evaluation.

Exam Format: short essay, identifications

ANTH 5255 Archaeology of Religion

3 credit(s);

Instructor: Soderberg, John A

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

ANTH 5401 The Human Fossil Record

A-F only, 3 credit(s); prereq 1001 or instr consent ; Credit will not be granted if credit has been received for: ANTH 3401;

Instructor: Tappen, Martha

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

ANTH 5442 Archaeology of the British Isles

A-F only, 3 credit(s);

Instructor: Wells, Peter S

Description: The purpose of this course is to examine the archaeology of the British Isles, with an emphasis on Great Britain. The seminar covers the historical development of methodological and theoretical approaches to archaeology, as well as the data and their interpretation.

Style: 100% Discussion.

Grading: 35% special projects, 55% in-class presentation, 10% class participation.

ANTH 5980 Topics in Anthropology: The Sociolinguistics of Storytelling

3 credit(s), max credits 6;

Instructor: Szatrowski, Polly Ellen

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

ANTH 5980 Topics in Anthropology

3 credit(s), max credits 6;

Instructor: Albers, Patricia

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

ANTH 5980 Topics in Anthropology: Global Migration and

Photography**3 credit(s), max credits 6;****Instructor:** Wolbert, Barbara

Description: Course description Investigating in particular the significance of photographs in coping with migration, this course touches upon a central feature of photography ? its ability to make present the absent. Rather than as recipients of images produced by mass media we look at immigrants as producers of images: Our point of departure is the socially extremely effective but often-underestimated individual image production. We will focus on private photographs, on photos taken, owned and circulated by migrants. These photographs, which may or may not depict immigrants, refugees or displaced persons open insights into immigrants? lives on multiple levels. Beyond the study of the narratives of those who are in the photo and of those, who took it and who hold on to it, the study of practices of collecting, framing, and displaying of photographs allows us to better understand processes of identification. By comparing earlier photograph collections of migrant families to more recent snapshots - analogue and digital - as well as to migrants? video, internet, and mobile phone practices, we will explore immigrants? changing sense of place and their migratory concepts. We will hence discuss legacies of first generations of immigrants and constructions of neighborhoods, real and virtual. In a second step we juxtapose these visual practices with visual representations of migration in the press and other mass media, using them as a key to public discourses on migration, shaping immigration policies and integration politics. Objectives and Topics The course will enhance the students? sensitivity for the relation between text and images. It will be based on the analysis of images, the discussion of theoretical essays and on students? case studies that aims at analyzing family photographs and their social uses. These case studies are based on individually designed intensive short-term fieldwork projects, conducted and supervised during the semester. Presentations of the results of students? case studies will complete the course work. The case studies will relate to the course readings, they will serve as an individually scheduled training program in the analysis of photographs. The course will thus guide the students in studying vernacular forms of expressive culture and in conducting narrative interviews and encourage them to articulate themselves both through words and the use of images. This course on the social use of photography in the context of global migration thus bridges between migration research and media studies. Concerned with questions of migrants? visual communication, memory, and representation, it covers basic concepts of visual cultural studies and fieldwork techniques. **Style:** 40% Lecture, 5% Film/Video, 40% Discussion, 10% Student Presentation, 5% Field Trips. **Grading:** 55% reports/papers, 10% special projects, 5% quizzes, 15% in-class presentation, 15% class participation. Homework assignments, fieldwork notes and other notes related to the coursework may be submitted for extra credit (-0.5 of final grade)

ANTH 5990 Topics in Archaeology: International Heritage**Mgmt****A-F only, 3 credit(s), max credits 9, 3 completions allowed; prereq instr consent ;****Instructor:** Adams, Jeffrey L

Description: Our heritage is all around us. It ranges from historic buildings to archaeological sites, from shipwrecks to artifacts, from traditional costumes, music and dance to folktales, myth and language. While these and other cultural resources may have immense personal, social, economic and political value, their disappearance is inevitable. How this process of loss is perceived and dealt with varies from country to country and culture to culture. Increasingly, however, Western approaches to the preservation of archaeological and architectural properties are gaining global preeminence, a development that is not without controversy. This course invites you to critically explore the problems and possibilities of international heritage management in the intellectual, institutional and regulatory context in which it occurs. In discussions ranging from the technical to the philosophical, students will be introduced to key concepts, methods, instruments and properties exemplifying the

historical development and contemporary practice of preservation within and between nations. While we will focus primarily on archaeological and architectural remains, students? own disciplinary interests will help to shape the content and direction of the course.

ANTH 8001 Ethnography, Theory, History**A-F only, 5 credit(s);****Instructor:** Song, Hoon**Description:** Student may contact the instructor or department for information.**ANTH 8244 Skeletal Materials****A-F only, 4 credit(s); prereq instr consent; Credit will not be granted if credit has been received for: ANTH 5244;****Instructor:** Tappen, Martha

Description: This lecture/laboratory course emphasizes core skills in identification of bones to skeletal element and taxon, to the level of major mammalian taxonomic groups including humans, with emphasis on understanding bone biology, functional morphology, human meat-acquisition strategies, prey and predator behavior and archaeological site formation. There are weekly readings on the interpretation of archaeological bone. Students take weekly quizzes on bone identification and on the readings, keep an extensive laboratory notebook, and conduct an original research project on bone assemblages. ANTH 1001 or equivalent is a prerequisite.

Style: 20% Lecture, 20% Discussion, 60% Laboratory.**Grading:** 10% final exam, 40% special projects, 25% quizzes, 25% laboratory evaluation.**Exam Format:** short essay, identifications**ANTH 8510 Topics in Archaeology: Archaeology of the British Isles****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 8810 Topics in Sociocultural Anthropology: Comparative Race/Ethnicity/Diaspora in the U.S.****3-9 credit(s), max credits 9, 3 completions allowed;****Instructor:** Desai, Jigna

Description: Our very notions of native citizen was forged against ?aliens ineligible for citizenship,? our ideas of cultural appropriateness were formulated in relation to groups deemed to have ?excessive culture? on the one hand and ?no culture? in the other, and the designation of some groups as ?model minorities? was intended to discipline ?not-so-model minorities.? We thus believe that a serious engagement with the heterogeneous and trans-national histories and relationships among communities such as African Americans, Euro-Americans, Asian Americans, Latinos, and Native Americans is necessary for contemporary scholarship of race in general, as well as of any particular community or identity. Even research projects that are not explicitly comparative must think through the various subtexts, shadows, and other categories through which or against which their particular foci was constructed. We believe that by interrogating comparative racial formations both across ?minority? groups as well as between majority and minority groups, this seminar will strengthen a wide-array of interdisciplinary research that engage with questions of race, privilege, power, identity, intersectionality, citizenship, American culture and history, and diaspora. Within this context, the course will also explore how racial formations are inflected and must be understood as articulated through and mutually constituted by other forms of social difference such as class, ethnicity, citizenship, gender, and sexuality. This class is designed for those who have passed their prelim exams. Creating a supportive and rigorous environment in which graduate students learn to both expand their conceptual paradigms and assemble the building blocks of writing a dissertation is a central goal of the course. The design of the course is thus two-fold: it will combine both interdisciplinary readings and discussion in comparative race and ethnic studies and peer feedback workshops. A central theme of the class,

then, will be to think through the process and methodology of writing, to develop our writing ? both process and the product ? in conversation with each other. First, by building an interdisciplinary peer writing community, the seminar will require students to present their research topics and questions in a manner that is understandable to those in other disciplines while learning to make explicit the possibilities and limitations of their own scholarship. Second, we will acknowledge and discuss explicitly the very particular process and form of writing a dissertation, and in doing so, we hope to create an enriched learning experience that seeks to demystify the steps of completing a PhD. We realize that the writing process can be painful, isolating, invigorating, frustrating, and inspiring. Through peer workshops and faculty feedback, the hope is that this class will establish an intellectually engaging environment and tackle the specificities of the dissertation format.

ANTH 8810 Topics in Sociocultural Anthropology: Reading Contemporary Ethnography

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

Instructor: Taussig, Karen-Sue

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

ANTH 8810 Topics in Sociocultural Anthropology: Readings in Middle Eastern Ethnography

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

Instructor: Beeman, William O

Description: Middle East Ethnography This seminar will consist of intensive reading of Middle Eastern ethnographic literature. We will read some of the important classics in the anthropology of the Middle East. Some flexibility will be available to accommodate specific student interests. Students should already have a basic familiarity with the geography and history of the region.

Grading: 80% reflection paper, 20% class participation.

Students will be asked to prepare short reflection papers on each of the readings in the course and participate regularly in seminar discussion

Applied Business

20 Classroom Office Building

ABUS 4012 Problem Solving in Complex Organizations

A-F only, 3 credit(s); prereq 45 cr completed;

Instructor: Swanson, Trisha Katherine

Description: Open systems perspective. Analyzing root causes/effects of problems/solutions across boundaries in organization. Process analysis as problem-solving tool. Problem-solving frameworks/processes. Techniques for analyzing root causes, expanding alternatives, predicting consequences, making choices.

ABUS 4022 Management in Organizations

A-F only, 3 credit(s); prereq 45 cr completed;

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. This course is divided into six major units: 1. Introduction 2. Planning 3. Organizing 4. Leading 5. Controlling 6. Conclusion Course text:

Daft, R. L., & Marcic, D. Understanding Management. 6th ed. (2009). Mason, OH: Thomson South-Western.

Style: 100% Web Based.

Grading: Grading is A-F only. Your grade is based on:

--"question of the week" discussion postings and responses (4%)
--3 online quizzes (48%) --2 applied management research papers (32%) --1 personal assessment and reflection paper (16%)

ABUS 4023W Communicating for Results

A-F only, 3 credit(s); prereq 45 cr completed; Meets CLE req of Writing Intensive;

Instructor: Scholder Esq, Lee

Description: For details on this course, go to <http://idlwebdb.cce.umn.edu/courses.asp> and search for online format.

ABUS 4041 Dynamics of Leadership

A-F only, 3 credit(s); prereq 45 cr completed;

Instructor: Kaiser, David

Description: For details on this course, go to <http://idlwebdb.cce.umn.edu/courses.asp> and search for online format.

Grading: 60% reports/papers. 12% Group Project 26% Online Discussions

ABUS 4043 Project Management in Practice

A-F only, 3 credit(s); prereq 4102, 45 cr completed;

Instructor: Griep, Valarie J

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

ABUS 4101 Cost Accounting, Analysis, and Control in Organizations

A-F only, 3 credit(s); prereq Financial accounting, 45 cr completed;

Instructor: Vickman, Thomas M

Description: For details on this course, go to <http://idlwebdb.cce.umn.edu/courses.asp> and search for online format.

ABUS 4102 Operations in Manufacturing and Service Businesses

A-F only, 3 credit(s); prereq 45 cr completed;

Instructor: Goldman, Joseph Richard

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

ABUS 4104 Management and Human Resource Practices

A-F only, 3 credit(s); prereq 45 cr completed;

Instructor: Brooks, Emily Hause

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

ABUS 4321 Evaluating Performance Excellence in Organizations

S-N only, 3 credit(s); prereq Submit MNQA evaluator application;

Instructor: Lassiter, Brian S

Description: Systematic processes for leadership, quality improvement, and performance excellence. Analyze strengths and improvements using the Baldrige National Quality Award and the Minnesota Quality Award (MNQA) criteria. Students join 2007 MNQA Board of Evaluators and complete team evaluation of MN group seeking MN Quality Award; or approved independent project.

ABUS 4701 Introduction to Marketing

A-F only, 3 credit(s); prereq [Macroeconomics or microeconomics], 45 cr;

Instructor: Aggarwal, Praveen

Description: For details on this course, go to <http://idlwebdb.cce.umn.edu/courses.asp> and search for online format.

Applied Economics

231 Classroom Office Building

APEC 1001 Orientation to Applied Economics

A-F only, 1 credit(s);

Instructor: Cooper, Gary M

Description: Introduction to the curriculum offerings, liberal education requirements, employment opportunities and the faculty in the Department of Applied Economics. This is a required one-credit course for all undergraduates majoring in Agricultural and Food Business Management or in Applied Economics. Emphasis will be placed on the historical development of the discipline, the areas of specialization, course work expectations and career planning (e.g., student self-assessment and analysis of interests, skills and abilities; discussion of opportunities in the field--study abroad experiences summer jobs, and internships).

Style: 65% Lecture, 35% Discussion.

Grading: 25% special projects, 60% quizzes, 15% other evaluation. Class attendance

Exam Format: The two quizzes will be multiple choice, short answer and choice of short essay.

APEC 1101 Principles of Microeconomics

3 credit(s); Credit will not be granted if credit has been received for: ECON 1101; Meets CLE req of Social Science Core;

Instructor: Okediji, Tade O

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

APEC 1101H Principles of Microeconomics

A-F only, 4 credit(s); prereq Proficiency in high school algebra; Credit will not be granted if credit has been received for: APEC 1101; Meets CLE req of Social Science Core;

Instructor: Liu, Donald J.

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

APEC 1101H Principles of Microeconomics

A-F only, 4 credit(s); prereq Proficiency in high school algebra; Credit will not be granted if credit has been received for: APEC 1101; Meets CLE req of Social Science Core;

Instructor: Liu, Donald J.

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

APEC 1251 Principles of Accounting

3 credit(s); prereq 30 cr; not recommended for premajors in AgFoodBus majors; Credit will not be granted if credit has been received for: ACCT 2050;

Instructor: Nefstead, Ward Elliot

Description: Fundamentals of business accounting; basic finance concepts; use of accounting data for income tax and managerial decision making. The following student learning objectives are included: 1) the student will be able to demonstrate an understanding of accounting from a user/consumer point of view; 2) the student will be able to perform the basic activities associated with accounting; 3) the student will be able to describe and contrast various accounting systems; 4) the student will be able to demonstrate proficiency in the analysis/interpretation of financial statements; 5) the student will be able to demonstrate the ability to work with actual case studies or analyze the relevance of accounting.

Style: 60% Lecture, 20% Discussion, 20% Laboratory.

Grading: 40% mid exam, 20% final exam, 20% special projects, 20% class participation.

Exam Format: Multiple choice

APEC 1905 Topics: Freshman Seminar: The Ordinary Business of Life

A-F only, 2 credit(s), max credits 3, 1 completion allowed; prereq Fr;

Instructor: Cooper, Gary M

Description: The world of economics is sometimes referred to as the study of the ordinary business of life. In this course we will discover, reflect on, and teach ourselves about a selected group of topics in the fields of business management and economics. The seminar is "chunked out" into four unique parts. While the first quarter of our meetings will be on business and economic history to provide context (the "Economic Revolution", the Federal Reserve System, and the role of government in the economy), the second quarter of class will analyze "macro" issues related to the domestic and world economies (economic growth, the New Economy, and globalization). The third and fourth quarters of our time together will be "micro" related. We will explore the economics of information, read and solve *The Fatal Equilibrium*, a mystery novel that highlights several basic economic principles. As part of this class, we will investigate the fields of leadership and business ethics through a series of readings and films. Given the instructor's experience in enrollment management and academic advising, parts of class discussions throughout the term will be dedicated to helping you make your transition to and navigation of the University a smooth one.

Style: 25% Lecture, 25% Film/Video, 50% Discussion. There will be one Saturday afternoon field trip.

Grading: 25% reports/papers, 30% quizzes, 20% class participation, 25% problem solving.

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

APEC 3001 Applied Microeconomics: Consumers, Producers, and Markets

4 credit(s); prereq [[1101 or Econ 1101], [Math 1142 or Math 1271]] or instr consent ; Credit will not be granted if credit has been received for: ECON 3101; Meets CLE req of Social Science Core;

Instructor: Huang, Qiuqiong

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

APEC 3002 Applied Microeconomics: Managerial Economics

4 credit(s); prereq [[3001 or ECON 3101], [OMS 2550 or STAT 3011] or instr consent ;

Instructor: Apland, Jeffrey

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 analysis and cost function estimation, resource allocation decisions, linear programming, market structure, pricing policy, risk analysis, and capital budgeting. This course is the second in a sequence that begins with ApEc 3001, Consumers and Markets.

Style: 50% Lecture, 10% Discussion, 40% Laboratory.

Grading: 40% mid exam, 20% final exam, 40% other evaluation. labs and problem set assignments

Exam Format: Problems, short answer, short essay, multiple choice, true/false

APEC 3006 Applied Macroeconomics: Government and the Economy

3 credit(s); prereq [[1102 or Econ 1102], [3001 or Econ 3101]] or instr consent ; Credit will not be granted if credit has been received for: ECON 3102;

Instructor: Mc Cullough, Gerard John

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

APEC 3007 Applied Macroeconomics: Policy, Trade, and Development

3 credit(s); prereq [1101 or Econ 1101], [1102 or Econ 1102]; 3001, 3006 recommended; Meets CLE req of International Perspective Theme;

Instructor: Pardey, Philip Gordon

Description: This is an undergraduate course in trade and

economic development addressed in five main parts. Part I lays out what we know about the state of economic development worldwide and international trade: including indicators of economic development, how trade has grown over recent centuries, and concerns over globalization and the welfare of developing countries. Part II develops the concept of comparative advantage and the technological basis for trade and the gains from trade. The concepts of productivity, technical change, and the role of research and development will be identified and discussed. Part III of the course will discuss trade policy instruments such as tariffs, subsidies, and trade preferences along with the trade related institutions that make trade and development happen. Part IV revisits the basis for trade, identifying the role of resource endowments. The trade models considered here go beyond identifying the gains from trade to reveal the income distribution consequences of trade. Part V includes a selection of trade-related topics, some of which may be considered in class if time permits. Topics listed include the international movement of capital and labor (i.e., factor mobility), intellectual property and trade regulation, economies of scale and imperfect competition, and trade policies in developing countries.

Style: 80% Lecture, 20% Discussion.

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

Exam Format: Testing understanding of basic economic terms and concepts related to trade and economic development; problem solving true and false and multiple choice questions; empirical problems; and short essays

APEC 3071 Agriculture and Economic Growth in Developing Countries

3 credit(s); prereq 1101, 1102, Econ 1101, 1102 or instr consent ;

Instructor: Senauer, Benjamin H

Description: This course will cover a range of topics on economic development of low-income countries, with a particular focus on the role of agriculture. The course assumes some familiarity with basic microeconomics. Topics to be covered include agricultural issues in developing countries, hunger, population growth, impacts on the environment and the role of policy, as well as others. A major paper on a topic chosen by the students is required.

Style: 40% Lecture, 40% Discussion. Student presentations in class

Grading: 50% mid exam, 25% reports/papers, 10% quizzes, 5% in-class presentation, 10% class participation.

Exam Format: Multiple choice and essay

APEC 3411 Commodity Marketing

3 credit(s); prereq 1101 or Econ 1101;

Instructor: Buhr, Brian L

Description: This course exposes the student to the economic concepts related to marketing agricultural commodities. The course examines the conditions of competitive markets, historical perspectives on market institutions and policy, structural characteristics of agricultural commodity sectors, and policies and regulations affecting agricultural marketing of livestock, crop and dairy products. It is intended to serve as a precursor to ApEc 4481: Futures and Options Markets. A key component of the course is learning concepts of price and market analysis. Students will collect data and analyze price changes for a chosen commodity. These tools are commonly used by commodity traders, commodity policy analysis and economists in general.

Style: 80% Lecture, 20% Discussion.

Grading: 20% mid exam, 30% final exam, 20% reports/papers, 10% class participation, 20% problem solving.

Exam Format: Multiple Choice, True/False and short problem solving and answer

APEC 3501 Agribusiness Finance

3 credit(s); prereq [[1251 or Acct 2050], 60 cr] or instr consent; Credit will not be granted if credit has been received for: FINA 3001;

Instructor: Pederson, Glenn Darwin

Description: Topics include: analysis of financial performance of

firms; evaluation of capital investment projects, selection of financial structure, risk management, and introduction to financial markets and instruments. Teaching is primarily accomplished through lecture, class discussion, problem solving exercises, and case problems. Text and lecture notes are the primary reference materials. A standard introductory business finance text is used.

Style: 60% Lecture, 35% Discussion, 5% Laboratory.

Grading: 20% mid exam, 30% final exam, 30% quizzes, 20% other evaluation. decision cases

Exam Format: Multiple choice, problems, and essays.

APEC 3991 Independent Study in Applied Economics

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

Instructor: STAFF

Description: Independent study and supervised reading and research on subjects and problems not covered in regularly offered courses. Coursework varies by instructor. No exams usually given.

APEC 4096 Professional Experience Program: Internship

S-N only, 1-3 credit(s), max credits 6, 6 completions allowed; prereq CFANS undergrad, instr consent , completed internship contract;

Instructor: STAFF

Description: Professional experience in agribusiness firms or government agencies gained through supervised practical experience; evaluative reports and consultations with faculty advisors and employers.

APEC 4103 World Food Problems

3 credit(s); prereq jr or sr or grad; Credit will not be granted if credit has been received for: AGRO 4103; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of International Perspect Theme;

Instructor: Porter, Paul M

Description: This course provides a multi-disciplinary look at problems (and some of the possible solutions) affecting food production, storage, and utilization. Presentations and discussions introduce and discuss sometimes conflicting views on population control, use of technology, as well as the ethical and cultural values of people in various countries of the world. Emphasis is placed on the need for governments, international assistance agencies, international research and extension centers, as well as the private business sector to assist in solving these complex problems. Students can enroll in either Agro 4103 or ApEc 4103. Previous background in any of the disciplines is not required, but students should expect upper division and/or graduate level assignments.

Style: 33% Lecture, 33% Discussion.

Grading: 60% reports/papers, 25% special projects, 15% class participation.

APEC 4451W Food Marketing Economics

3 credit(s); prereq [[1101 or Econ 1101], Mktg 3001, 60 cr] or instr consent ; Credit will not be granted if credit has been received for: APEC 5451; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Writing Intensive;

Instructor: Senauer, Benjamin H

Description: The course covers the development of a marketing plan/strategy for food products, including developing a target market based on consumer trends and segmentation. The food industry at the retail (foodstore and foodservice) and wholesale levels, plus supply chain management are studied, including the impact of e-commerce both at the consumer and business levels. Current ethical and public policy issues confronting the food industry are examined and considered from various perspectives. Students pursue individual and group projects. Three special projects account for 50% of the grade. They require written reports of about 5 pages and class presentations. The first involves developing a marketing plan for a food product and the second a case study of a marketing decision by a local food business. The last project involves a debate of food and nutrition policy issues by the class. There are several industry speakers. The course fulfills both writing intensive and citizenship and public ethics requirements.

Style: 50% Lecture, 25% Discussion. Presentations and debates
Grading: 40% reports/papers, 10% in-class presentation, 10% class participation, 40% other evaluation. Exams
Exam Format: Essay, short answer

APEC 4461 Horticultural Marketing

A-F only, 3 credit(s); prereq 1101 or ECON 1101; Credit will not be granted if credit has been received for: HORT 4461;

Instructor: Yue,Chengyan

Description: This course examines several major areas in horticultural marketing. First, we will introduce the difference between horticultural products and commercial commodities and what's special about horticultural marketing; Second, we analyze the functions performed by the horticultural marketing system. We analyze the marketing behavior of horticultural businesses (farms, wholesalers, garden centers) and cover the core marketing components that should be used by every small horticultural business; Finally, the basic approaches of consumer research (survey techniques, non-hypothetical experimental approaches, conjoint analysis, etc.) will be introduced. The required textbook is Solomon, Michael R. and Elnora Stuart. 2003. Marketing: Real People, Real Choices, 3rd Ed. This course will consist of lectures, discussions, and student projects and presentations. Students will work on the projects in small group teams of three or four. The target audience is undergraduate students and master of agriculture students.

Style: 60% Lecture, 40% Discussion.

Grading: 30% mid exam, 20% final exam, 15% reports/papers, 10% quizzes, 20% in-class presentation, 5% class participation.

Exam Format: Multiple choice and short answer questions.

APEC 5031 Methods of Economic Data Analysis

3 credit(s); prereq Math 1271, Stat 5021, knowledge of matrix algebra;

Instructor: Yeap,Clarissa A

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

APEC 5151 Applied Microeconomics: Firm and Household

3 credit(s); prereq 3001 or or Math 1271 or Math 2243 or equiv or grad student or instr consent;

Instructor: Coggins,Jay Steven

Description: Quantitative techniques for analysis of economic problems of firm and household. Links between quantitative tools and economic analysis developed to understand economic theory and develop research skills. Quantitative tools include regression analysis and mathematical programming.

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

Grading: 15% mid exam, 45% final exam, 40% problem solving.

Exam Format: Essay/problems

APEC 5451 Food Marketing Economics

A-F only, 3 credit(s); prereq grad student; Credit will not be granted if credit has been received for: APEC 4451W;

Instructor: Senauer,Benjamin H

Description: The course covers the development of a marketing plan/strategy for food products, including developing a target market based on consumer trends and segmentation. The food industry at the retail (foodstore and foodservice) and wholesale levels, plus supply chain management are studied, including the impact of e-commerce both at the consumer and business levels. Current ethical and public policy issues confronting the food industry are examined and considered from various perspectives. Students pursue individual and group projects. Three special projects account for 50% of the grade. They require written reports of about 5 pages and class presentations. The first involves developing a marketing plan for a food product and the second a case study of a marketing decision by a local food business. The last project involves a debate of food and nutrition policy issues by the class. There are several industry speakers. The course fulfills both writing intensive and citizenship and public ethics requirements.

Style: 50% Lecture, 25% Discussion. Presentations and debates

Grading: 40% reports/papers, 10% in-class presentation, 10% class participation, 40% other evaluation. Exams

Exam Format: Essay, short answer

APEC 5651 Economics of Natural Resource and Environmental Policy

3 credit(s); prereq [[3001 or Econ 3101], [4611 or Econ 3611 or NRES 3261W]] or instr consent; Meets CLE req of Environment Theme;

Instructor: Easter,K William

Description: The course emphasizes the economics of natural resource use over time, natural resource scarcity or adequacy, environmental economics and mechanisms for pollution control and their implications for public policy. It will also include study of the use of economic analysis and benefit cost analysis in natural resource and environmental quality decisions made both by the public and private sectors. This course is designed to service two groups: (1) seniors and graduate students in Applied Economics, Public Affairs, Geography, Natural Resources, etc., for whom it is a terminal course, and (2) Applied Economics or Economics students who plan to take ApEc8601 and/or 8602. The course is organized around two lectures per week. However, discussion and questions are encouraged. Readings will be assigned that are on reserve.

Style: 85% Lecture, 15% Discussion.

Grading: 35% mid exam, 35% final exam, 20% reports/papers, 10% problem solving.

Exam Format: Short essay

APEC 5891 Independent Study: Advanced Topics in Farm and Agribusiness Management

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

Instructor: STAFF

Description: Special topics or individual work.

Style: Varies/individuals approach

Grading: 100% other evaluation. Varies

APEC 5991 Special Topics and Independent Study in Applied Economics

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

Instructor: STAFF

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

APEC 8202 Mathematical Optimization in Applied Economics

3 credit(s); prereq [5151, Econ 5151] or equiv or instr consent;

Instructor: Aplan,Jeffrey

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

APEC 8211 Econometric Analysis I

4 credit(s); prereq [[Stat 4102 or Stat 5102], Ph.D. student] or instr consent;

Instructor: Mc Cullough, Gerard John

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

APEC 8404 Labor Economics and Human Capital

A-F only, 2 credit(s); prereq [8403, Econ 8001, Econ 8002] or [Econ 8101, Econ 8102] or instr consent;

Instructor: Davis,Elizabeth E

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

APEC 8601 Natural Resource Economics

3 credit(s); prereq [5151, 8202, 8206 [ECON 5151 or equiv]] or instr consent ;

Instructor: Huang,Qiuqiong

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

APEC 8702 Economic and Trade Policy: Sectoral and Institutional Issues

3 credit(s); prereq ECON 8002 or ECON 8102 or instr consent ;

Instructor: Smith,Pamela Jane

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

APEC 8804 Managerial Economics

2 credit(s); prereq [8202, Econ 5151] or [Econ 8001, Econ 8002] or [Econ 8101, Econ 8102] or instr consent ; Majors must register A-F basis;

Instructor: Yeap,Clarissa A

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

APEC 8902 Graduate Seminar: Ph.D. Program

S-N only, 1 credit(s); prereq Agri/ApEc PhD student or ApEc PhD student;

Instructor: Smith,Pamela Jane

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

APEC 8991 Advanced Topics in Applied Economics: Public Finance

3 credit(s), max credits 6, 1 completion allowed; prereq instr consent ;

Instructor: Kalambokidis,Laura TJ

Description: In this course students will study current economic research on government tax and expenditure policy and will learn to apply the tools of applied economics to public finance issues. The course is divided into two sections: tax policy, taught by Professor Kalambokidis, and expenditure policy, taught by Professor Stinson. Tax section topics will include the principles of tax policy, taxation and household decisions (including labor supply and savings), taxation and the firm (including the cost of capital), and fundamental tax reform. Expenditure section topics will include alternative demand models for public goods, public choice theory, and fiscal federalism.

APEC 8991 Advanced Topics in Applied Economics

1-6 credit(s), max credits 6, 1 completion allowed; prereq instr consent ;

Instructor: Apland,Jeffrey

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

APEC 8991 Advanced Topics in Applied Economics: Labor Economics

2 credit(s), max credits 6, 1 completion allowed; prereq instr consent ;

Instructor: Ritter,Joe

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

Arabic

453 Folwell Hall

ARAB 1101 Beginning Arabic I

5 credit(s); Credit will not be granted if credit has been received for: ARAB 4101;

Instructor: Khalek,Hisham A

Description: Arabic 1101 is the first in a sequence of courses aimed at reading, speaking, listening, and writing formal Arabic, also known as Modern Standard Arabic. The class begins with learning the alphabet; pronunciation, reading, and writing, and proceeds into learning basic communicative interactions. The course also introduces students to the cultures of the Arabic-speaking people. The target audience includes undergraduate as well as graduate students. The texts used are Assalaamu Aleykum series by Hisham Khalek.

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

Grading: 25% final exam, 10% quizzes, 15% written homework, 35% additional semester exams, 5% attendance, 10% laboratory evaluation.

Exam Format: Vocab knowledge/fill in the blank. Reading

Comprehension, Listening comprehension.

ARAB 1101 Beginning Arabic I

5 credit(s); Credit will not be granted if credit has been received for: ARAB 4101;

Instructor: Ben Zahra,Saloua

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

ARAB 1101 Beginning Arabic I

5 credit(s); Credit will not be granted if credit has been received for: ARAB 4101;

Instructor: Mohammed,Sidow Abdishariff

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

ARAB 1101 Beginning Arabic I

5 credit(s); Credit will not be granted if credit has been received for: ARAB 4101;

Instructor: Elmeski,Mohammed

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

ARAB 3101 Intermediate Arabic I

5 credit(s); prereq 1102 or equiv or instr consent;

Instructor: Ben Zahra,Saloua

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

ARAB 3101 Intermediate Arabic I

5 credit(s); prereq 1102 or equiv or instr consent;

Instructor: Mohammed,Sidow Abdishariff

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

ARAB 3101 Intermediate Arabic I

5 credit(s); prereq 1102 or equiv or instr consent;

Instructor: Elmeski,Mohammed

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

ARAB 3505 Survey of the Middle East

3 credit(s); Credit will not be granted if credit has been received for: HIST 3505; Meets CLE req of International Perspect Theme;

Instructor: Hakim,Carol

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

ARAB 3547 The Ottoman Empire

3 credit(s); Credit will not be granted if credit has been received for: HIST 3547; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme;

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). For history majors, course will fulfill the pre-1750 requirement.

ARAB 4101 Beginning Arabic

3 credit(s); prereq Grad student, instr consent ; Credit will not be granted if credit has been received for: ARAB 1101;

Instructor: Khalek,Hisham A

Description: Arabic 1101 is the first in a sequence of courses aimed at reading, speaking, listening, and writing formal Arabic, also known as Modern Standard Arabic. The class begins with learning the alphabet; pronunciation, reading, and writing, and proceeds into learning basic communicative interactions. The course also introduces students to the cultures of the Arabic-speaking people. The target audience includes

undergraduate as well as graduate students. The texts used are Assalaamu Aleykum series by Hisham Khalek.

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

Grading: 25% final exam, 10% quizzes, 15% written homework, 35% additional semester exams, 5% attendance, 10% laboratory evaluation.

Exam Format: Vocab knowledge/fill in the blank. Reading Comprehension, Listening comprehension.

ARAB 4101 Beginning Arabic

3 credit(s); prereq Grad student, instr consent ; Credit will not be granted if credit has been received for: ARAB 1101; Instructor: Ben Zahra, Saloua

Description: Arabic 1101 is the first in a sequence of courses aimed at reading, speaking, listening, and writing formal Arabic, also known as Modern Standard Arabic. The class begins with learning the alphabet; pronunciation, reading, and writing, and proceeds into learning basic communicative interactions. The course also introduces students to the cultures of the Arabic-speaking people. The target audience includes undergraduate as well as graduate students. The texts used are Assalaamu Aleykum series by Hisham Khalek.

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

Grading: 25% final exam, 10% quizzes, 15% written homework, 35% additional semester exams, 5% attendance, 10% laboratory evaluation.

Exam Format: Vocab knowledge/fill in the blank. Reading Comprehension, Listening comprehension.

ARAB 4101 Beginning Arabic

3 credit(s); prereq Grad student, instr consent ; Credit will not be granted if credit has been received for: ARAB 1101; Instructor: Mohammed, Sidow Abdishariff

Description: Arabic 1101 is the first in a sequence of courses aimed at reading, speaking, listening, and writing formal Arabic, also known as Modern Standard Arabic. The class begins with learning the alphabet; pronunciation, reading, and writing, and proceeds into learning basic communicative interactions. The course also introduces students to the cultures of the Arabic-speaking people. The target audience includes undergraduate as well as graduate students. The texts used are Assalaamu Aleykum series by Hisham Khalek.

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

Grading: 25% final exam, 10% quizzes, 15% written homework, 35% additional semester exams, 5% attendance, 10% laboratory evaluation.

Exam Format: Vocab knowledge/fill in the blank. Reading Comprehension, Listening comprehension.

ARAB 4101 Beginning Arabic

3 credit(s); prereq Grad student, instr consent ; Credit will not be granted if credit has been received for: ARAB 1101; Instructor: Elmeski, Mohammed

Description: Arabic 1101 is the first in a sequence of courses aimed at reading, speaking, listening, and writing formal Arabic, also known as Modern Standard Arabic. The class begins with learning the alphabet; pronunciation, reading, and writing, and proceeds into learning basic communicative interactions. The course also introduces students to the cultures of the Arabic-speaking people. The target audience includes undergraduate as well as graduate students. The texts used are Assalaamu Aleykum series by Hisham Khalek.

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

Grading: 25% final exam, 10% quizzes, 15% written homework, 35% additional semester exams, 5% attendance, 10% laboratory evaluation.

Exam Format: Vocab knowledge/fill in the blank. Reading Comprehension, Listening comprehension.

ARAB 4121 Intermediate Arabic I

3 credit(s); prereq [1102 or equiv], grad student, instr consent ;

Instructor: Ben Zahra, Saloua

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

ARAB 4121 Intermediate Arabic I

3 credit(s); prereq [1102 or equiv], grad student, instr consent ;

Instructor: Mohammed, Sidow Abdishariff

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

ARAB 4121 Intermediate Arabic I

3 credit(s); prereq [1102 or equiv], grad student, instr consent ;

Instructor: Elmeski, Mohammed

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

ARAB 5101 Advanced Arabic I

3 credit(s), max credits 4, 1 completion allowed; prereq 3102 or equiv or instr consent;

Instructor: Khalek, Hisham A

Description: Arabic 5101 is a continuation of Arabic 3102 and the first in a two-course series. The course is designed to reinforce Arabic language skills learned in the beginning and intermediate levels and introduce new knowledge of diverse nature in order to advance language proficiency. In speaking, the course trains students to speak crisp and clear Arabic by presenting "news of the hour - akhbarus-saa'a" on varied topics and to understand and use complex and compound sentences. In reading, the course guides students to apply the dialectical marks when reading from scholarly textbooks and journals. Writing skills are enhanced by drafting weekly compositions, homework assignments, and translations. Listening exercises and drills are utilized in class as well as in the language lab by listening and watching audio and video materials. The course is also aimed at advancing students' knowledge of the cultures of the Arab world. The target audience is undergraduate and graduate students. The text is Al-Kitaab, Part three, by Brustad, Al-Batal, and Al-Tonsi.

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

Grading: 15% final exam, 20% reports/papers, 25% quizzes, 15% written homework, 10% attendance, 5% in-class presentation, 10% laboratory evaluation.

Exam Format: Reading comprehension, listening comprehension, Translations, and vocab knowledge.

Architecture

110 Rapson Hall

ARCH 1701 The Designed Environment

A-F only, 3 credit(s);

Instructor: Lavine, Lance A

Description: Purpose: Arch 1701 is intended to introduce students with no prior academic experience in the field to the disciplines of architecture and landscape architecture. This class will be based on the assumption that these disciplines are idea-making enterprises. Its focus will be on the kinds of ideas that our constructed environments make and the way in which buildings and their landscapes participate in forming these constructs. Introduction: In this introductory course, special emphasis will be placed on why architecture and landscape architecture constitute unique ways in which people have formed ideas about the world that they construct to inhabit. The significance of architecture and landscape architecture is found, as it is in other arts, in an interpretation of the ideas that its constructions propose. These ideas necessarily cross many conventional boundaries of thought. They are at once utilitarian and symbolic, quantitative and qualitative, and material and metaphorical. The constructed environment provides an endless source of ideas that symbolically allow us to reside in nature with

each other.

ARCH 1701H Honors: The Designed Environment

A-F only, 3 credit(s); prereq [Fr or soph] honors;

Instructor: Lavine,Lance A

Description: Purpose: Arch 1701 is intended to introduce students with no prior academic experience in the field to the disciplines of architecture and landscape architecture. This class will be based on the assumption that these disciplines are idea-making enterprises. Its focus will be on the kinds of ideas that our constructed environments make and the way in which buildings and their landscapes participate in forming these constructs. Introduction: In this introductory course, special emphasis will be placed on why architecture and landscape architecture constitute unique ways in which people have formed ideas about the world that they construct to inhabit. The significance of architecture and landscape architecture is found, as it is in other arts, in an interpretation of the ideas that its constructions propose. These ideas necessarily cross many conventional boundaries of thought. They are at once utilitarian and symbolic, quantitative and qualitative, and material and metaphorical. The constructed environment provides an endless source of ideas that symbolically allow us to reside in nature with each other.

ARCH 2301 Introduction to Drawing in Architecture

A-F only, 4 credit(s); prereq Arch major; no prereq in summer credit will not be granted if credit received for: Arch 1301;

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

ARCH 3250 Design Workshop

A-F only, 1-6 credit(s), max credits 12, 6 completions allowed; prereq 2281, [Arch BA or BDA major];

Instructor: STAFF

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

ARCH 3281 Undergraduate Architecture Studio I

A-F only, 6 credit(s); prereq BS Arch major;

Instructor: Clark,Dan

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

ARCH 3281 Undergraduate Architecture Studio I

A-F only, 6 credit(s); prereq BS Arch major;

Instructor: Dull,Andrew J

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

ARCH 3281 Undergraduate Architecture Studio I

A-F only, 6 credit(s); prereq BS Arch major;

Instructor: McQuade,Martha Wilha

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

ARCH 3301 Drawing for Design in Architecture

A-F only, 3 credit(s); prereq [1301 or LA 1301 or 2301], [Arch or BED major]; Meets CLE req of Other Humanities Core;

Instructor: STAFF

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

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

Grading: 25% class participation. 50% final portfolio; 25% final assignment

Exam Format: review of drawings

ARCH 3351 AutoCAD I

3 credit(s); prereq Arch major or BED major or instr consent ; Credit will not be granted if credit has been received for:

ARCH 5351;

Instructor: Anderson,Kristine

Description: Basic concepts, tools, and techniques of computer-aided drawing with current AutoCAD Release. Strategies and techniques for producing dimensioned and annotated drawings suitable for plotting, and an introduction to 3-D drawing capabilities. Use of dimension variables, attributes, blocks, and symbols

ARCH 3351 AutoCAD I

3 credit(s); prereq Arch major or BED major or instr consent ; Credit will not be granted if credit has been received for:

ARCH 5351;

Instructor: Dozier,James

Description: Basic concepts, tools, and techniques of computer aided drawing with current AutoCAD release. Strategies and techniques for producing dimensioned and annotated drawings suitable for plotting and an introduction to 3-D drawing capabilities. Use of dimension variables, attributes, blocks, symbols, and the creation of customized menus.

ARCH 3381 Introduction to Computer Aided Architectural Design

A-F only, 3 credit(s); prereq Arch major or BED major or instr consent;

Instructor: Anderson, Lee Bruce

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

ARCH 3411 Architectural History to 1750

A-F only, 3 credit(s); prereq Soph or above; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme;

Instructor: Satkowski,Leon

Description: This course investigates architecture broadly considered from Egypt to the early 18th century in Europe and the New World. The basic tenet of the course is the study of our constructed environment--buildings, cities, landscapes. Although the course focuses on western architecture, approximately one third of the lectures are devoted to China, Japan, and the Indian subcontinent. Weekly recitations will both augment lectures and introduce students to looking at the built environment in the Twin Cities area. The course is aimed at students planning undergraduate majors in architecture, landscape architecture, art history, and anyone with an interest in the visual arts. Required books will include Trachtenberg and Hyman in the period as a whole, Mac Donald on the Pantheon, Braunfels on cities, Michell on Hindu Temples, and O'Gorman on an introduction to analyzing buildings.

Style: 66% Lecture, 33% Discussion.

Grading: 30% mid exam, 30% final exam, 20% reports/papers, 20% quizzes.

Exam Format: Essay, slide ID

ARCH 3711V Honors: Environmental Design and the Sociocultural Context

A-F only, 3 credit(s); prereq Honors, [soph or above]; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Writing Intensive;

Instructor: Robinson PhD, Julia Williams

Description: Environmental Design and the Sociocultural Context addresses how the built environment affects people in their everyday life and how cultural perspectives affect the way environments are constructed. Students examine the responsibility of the design professional to the human community and its shared environment?global, local, political and ethnic. Additionally the course develops skills in studying written texts, as well as environments and professional institutions from a cultural perspective. As it is a writing intensive class, students will learn to write essays that identify important issues, take a position and make an argument using evidence. By the end of the semester the participating student is expected to be able to: Employ critical thinking skills founded in a cultural approach. Identify your own cultural position as reflected in ethnicity, race, religion and gender. Develop an understanding of your cultural bias as well as develop empathy with other perspectives Construct sound arguments with a clear statement, a development using evidence, and a conclusion. ?Read? places within our culture Understand the attitudes and institutions places represent. Apprehend the various frames of reference of a place (e.g. aesthetic, economic, political, moral). Perceive how our bodies, everyday activities, and culture shape and are shaped by places. Realize that places exist in moments and currents of time. Apply specific methods and tools that enable the description, analysis and interpretation of places. Understand the role of a professional in support of society?s welfare. Examine the design professions from the perspective of active citizenship.

ARCH 3711W Environmental Design and the Sociocultural Context

A-F only, 3 credit(s); prereq Soph or above; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Writing Intensive;

Instructor: Robinson PhD, Julia Williams

Description: Environmental Design and the Sociocultural Context addresses how the built environment affects people in their everyday life and how cultural perspectives affect the way environments are constructed. Students examine the responsibility of the design professional to the human community and its shared environment?global, local, political and ethnic. Additionally the course develops skills in studying written texts, as well as environments and professional institutions from a cultural perspective. As it is a writing intensive class, students will learn to write essays that identify important issues, take a position and make an argument using evidence. By the end of the semester the participating student is expected to be able to: Employ critical thinking skills founded in a cultural approach. Identify your own cultural position as reflected in ethnicity, race, religion and gender. Develop an understanding of your cultural bias as well as develop empathy with other perspectives Construct sound arguments with a clear statement, a development using evidence, and a conclusion. ?Read? places within our culture Understand the attitudes and institutions places represent. Apprehend the various frames of reference of a place (e.g. aesthetic, economic, political, moral). Perceive how our bodies, everyday activities, and culture shape and are shaped by places. Realize that places exist in moments and currents of time. Apply specific methods and tools that enable the description, analysis and interpretation of places. Understand the role of a professional in support of society?s welfare. Examine the design professions from the perspective of active citizenship.

ARCH 4150 Topics in Architecture: Topics in Heritage Preservation

A-F only, 3 credit(s), max credits 24, 6 completions allowed; prereq Arch major or instr consent ;

Instructor: Chen, Arthur Hui-Min

Description: Student may contact the instructor or department

for information.

ARCH 4150 Topics in Architecture: Intro to Topics in Heritage Preservation Planning

A-F only, 3 credit(s), max credits 24, 6 completions allowed; prereq Arch major or instr consent ;

Instructor: Donofrio, Gregory

Description: [NOTE: This class is open to all majors from throughout the University. Please disregard the "Arch major" prerequisite. If you have problems registering, please email the instructor: donofrio@umn.edu] This class explores the promises of, and challenges to, heritage preservation planning in the United States. As a growing movement, heritage Preservation's concepts and tools are now widely utilized by architects, planners, artists, and other allied professionals and public advocates. Preservation is widely acknowledged to produce public benefits that include promotion of local, state, and national history; redevelopment of architecturally-significant properties; cultural conservation of landscapes; and stimulation of community economic development. And yet there are many who question if preservation's benefits are equally distributed in a way that promotes social justice, or if it is really just gentrification in disguise. Some even doubt if preservation is as economically and environmentally sustainable as other potential redevelopment options. Students will critically evaluate preservation's pros and cons from a number of different perspectives through lectures, readings, films, class discussions, assignments, and local field trips, drawing on case studies located in the Twin Cities, as well as New Orleans, Seattle, Boston, and New York City.

ARCH 4283 Undergraduate Architecture Studio III

A-F only, 6 credit(s); prereq [3282 or 4282], B.S. Arch major;

Instructor: Alm, Lucas Lloyd

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

ARCH 4283 Undergraduate Architecture Studio III

A-F only, 6 credit(s); prereq [3282 or 4282], B.S. Arch major;

Instructor: Paulsen, Kristen S

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

ARCH 4283 Undergraduate Architecture Studio III

A-F only, 6 credit(s); prereq [3282 or 4282], B.S. Arch major;

Instructor: Madson, Nat P

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

ARCH 4321 Architecture in Watercolor

A-F only, 3 credit(s); prereq 1301; Credit will not be granted if credit has been received for: ARCH 5321;

Instructor: Fogg, Monica

Description: Watercolor as a tool in design process. Foundation principles, techniques, medium, tools, materials. Color relationships, mixing, composition, applications to design.

ARCH 4361 3-D Computer Architectural Modeling and Design

A-F only, 3 credit(s); prereq 3351, Arch major; Credit will not be granted if credit has been received for: ARCH 5361;

Instructor: Dozier, James

Description: This class explores the use of 3-D computer modeling as a tool for representation in both abstract and realistic ways. Students will gain a good basic working knowledge of computer modeling software through assignments that include the creation and arrangement of objects, setting up lighting, developing surface materials, and creating still renderings and animations. The class also explores ways in which computer visualization can be used throughout the design process for: design exploration, feedback during the development of design ideas, and realistic representation of fully formed designs.

ARCH 4424 Renaissance Architecture

A-F only, 3 credit(s); prereq 3411 or instr consent ; Credit will not be granted if credit has been received for: ARCH

5424;

Instructor: Satkowski, Leon**Description:** Student may contact the instructor or department for information.**A-F only, 9 credit(s); prereq instr consent ;****Instructor:** Roe, Sharon Louise**Description:** Student may contact the instructor or department for information.**ARCH 4432 Modern Architecture****A-F only, 3 credit(s); prereq 3412 or instr consent ; Credit will not be granted if credit has been received for: ARCH 5432;****Instructor:** Iannacone, Rachel

Description: In ARCH 4432, Modern Architecture, students will learn about culture, social history, and the history of design through an examination of the built environment from 1840-1940. Through a variety of educational media, including lectures, readings, films, and field trips, we will explore the history of design including the Prairie Style, Beaux Arts, Chicago Skyscrapers, Art Nouveau, Constructivism, Futurism, De Stijl, Secession, Werkbund, and International Style Modernism. These topics will be examined within a broad social and cultural context; as such, students will read and discuss history, social movements, culture, painting, sculpture and industrial design. This course will encourage students to continue developing their critical thinking, writing and analysis skills. Students will be expected to discuss assigned readings in class, prepare a research paper and complete 2 exams (a midterm and final). We welcome students who have taken at least one introductory course in: art, art history, geography, history, comparative literature, English, classics, archeology, geography, urban history, American Studies, Cultural Studies, or Urban Studies. Honors students are also welcome. Please contact Professor Rachel Iannacone (ianna006@umn.edu) to find out more.

Style: 30% Lecture, 10% Film/Video, 30% Discussion, 20% Small Group Activities, 10% Student Presentation.

ARCH 4511 Materials and Methods I**A-F only, 3 credit(s); prereq BS Arch major;****Instructor:** Lutz, James Martin**Description:** Student may contact the instructor or department for information.**ARCH 4571 Architectural Structures I****A-F only, 3 credit(s); prereq BS Arch major;****Instructor:** Strothman, Susan C

Description: Influence of history/culture on architecture/structure. Structural mechanics, analysis, and form finding. Structural design by experimental, qualitative/intuitive, and quantitative methods. Vector-/form-active structural systems, funicular structures, bending/compression elements, plates/grids, tensile architecture, shells. Description of traditional construction materials.

ARCH 4671 Historic Preservation**A-F only, 3 credit(s); prereq Jr or sr or instr consent ;****Instructor:** Mack, Robert Callan**Description:** Student may contact the instructor or department for information.**ARCH 4701 Introduction to Urban Form and Issues****A-F only, 3 credit(s); prereq [3411, 3412] or instr consent ;****Instructor:** Jara, Cynthia

Description: Cities have to be made - thought about, desired, planned, engineered, built, lived in, and maintained. Throughout this process cities acquire layers of history, not just architectural history and the history of formal changes and development, but political, military, economic, and cultural history. Arch 4701, Introduction to Urban Form, grapples with these concepts and attempts to lay a foundation for ordering and understanding them.

ARCH 4731 Territorial City**A-F only, 3 credit(s); prereq instr consent ;****Instructor:** Conway, William F**Description:** Student may contact the instructor or department for information.**ARCH 5291 Accelerated Undergraduate Architecture Studio I****ARCH 5361 3-D Computer Architectural Modeling and Design****A-F only, 3 credit(s); prereq M Arch major; Credit will not be granted if credit has been received for: ARCH 4361;****Instructor:** Dozier, James

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

ARCH 5361 3-D Computer Architectural Modeling and Design**A-F only, 3 credit(s); prereq M Arch major; Credit will not be granted if credit has been received for: ARCH 4361;****Instructor:** Dozier, James**Description:** Student may contact the instructor or department for information.**ARCH 5381 Introduction to Computer Aided Architectural Design****A-F only, 3 credit(s); prereq Arch or BED or M Arch or grad student in LA or instr consent ;****Instructor:** Anderson, Lee Bruce

Description: Introduction to electronic media for design including 2-D drawing, 3-D modeling and animation, printing and plotting. Introduction to electronic networking and communications, database management, spreadsheet analysis, land use analysis, and project management. Arch 5381 covers 3D modeling with animation and video editing. Techniques and theories of cinema and video editing will be explored, as well as their potential for use in architectural design conceptualization and development.

ARCH 5411 Principles of Design Theory**A-F only, 3 credit(s); prereq M Arch major or instr consent;****Instructor:** Lavine, Lance A**Description:** Student may contact the instructor or department for information.**ARCH 5424 Renaissance Architecture****A-F only, 3 credit(s); prereq 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 5432 Modern Architecture**A-F only, 3 credit(s); prereq M Arch major or instr consent; Credit will not be granted if credit has been received for:****ARCH 4432;****Instructor:** Iannacone, Rachel

Description: Modern Architecture is an in-depth study of the history of architecture from 1840-1940 within a broad social and cultural context. Over the course of the semester, we will explore

a variety of architectural movements, including the Arts and Crafts, Prairie Style, Chicago Skyscrapers, Art Nouveau, Constructivism, Futurism, De Stijl, Secession, Werkbund, and International Style Modernism. While we will primarily study buildings, we will also read and discuss history, social movements, culture, painting, sculpture and industrial design. Much of the material will be delivered through lecture, however, the course will also strongly emphasize the direct analysis of primary and secondary texts. As such, students will be required to prepare readings for discussion each week. In addition to readings, students will take 2 exams (a midterm and final). They will also prepare a research paper and presentation relying heavily on primary materials.

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

Grading: 15% mid exam, 15% final exam, 45% reports/papers, 10% quizzes, 15% written homework.

ARCH 5450 Topics in Architectural Theory: Analytical Studies of Contemporary Architecture

A-F only, 3 credit(s), max credits 9, 3 completions allowed; prereq Arch major or M Arch major or instr consent ;

Instructor: Dittmar, Gunter A

Description: The seminar explores the architecture of a number of currently leading architects whose work is derived from and reflects a particular philosophical and/or theoretical paradigm, ranging from phenomenology to rationalism and post-structuralism. The studies focus on a thorough intellectual and physical analysis of a representative work, its underlying premises, canon of architectural form and order, potential meaning, and implications for architecture in general. The investigations will be carried out in the form of small teams (one project per team), and since it is a major objective of the seminar to bridge the gap between theory and design, the seminar will not only analyze the physical product and its underlying premises, but also the process used in its creation, as well as their interrelationship.

ARCH 5515 Technology One: Building Materials and Construction Systems

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

Instructor: Roe, Sharon Louise

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

ARCH 5517 Technology Three: Structural Systems

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

Instructor: Ibarra Sevilla, Benjamin

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

ARCH 5550 Topics in Technology: Material Strategies

A-F only, 3 credit(s), max credits 12, 3 completions allowed; prereq M.Arch major;

Instructor: Brownell, Blaine Erickson

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

ARCH 5621 Professional Practice in Architecture

A-F only, 3 credit(s); prereq M Arch major or instr consent;

Instructor: Cheng, Renee

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

ARCH 5670 Topics in Historic Preservation: Topics in Heritage Preservation

3 credit(s), max credits 6; prereq MS Arch or M Arch major or instr consent;

Instructor: Chen, Arthur Hui-Min

Description: This course provides a global understanding of World Heritage, the nomination and management of sites, and design issues affiliated with historic preservation designation. Students should gain an understanding of design issues as they relate to historic properties, including sensitive alteration, adaptation of and additions to existing buildings. Case-studies

link current practices, methods and solutions with expert preservationists, site conservationists and local communities in the cultural development and design of preservation proposals.

ARCH 5670 Topics in Historic Preservation: Economics Benefits of Historic Redevelopment

3 credit(s), max credits 6; prereq MS Arch or M Arch major or instr consent;

Instructor: Donofrio, Gregory

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

ARCH 5671 Historic Preservation

3 credit(s); prereq 3412 or instr consent ;

Instructor: Mack, Robert Callan

Description: The course is designed to give students a general understanding of the entire field of Historic Preservation and with specific emphasis on documentary research and written documentation of historic properties. Topics covered include historic building research, descriptive analysis of historic buildings, historic archaeology, historic building documentation, the government role in historic preservation, historic landscapes, preservation and building codes, historic interiors, preservation standards and guidelines, neighborhood preservation, preservation advocacy, types of preservation, and future directions for historic preservation. Material is presented through illustrated lectures, guest lecturers, field trips, and class discussion. This year students will conduct historic research on broad-scale preservation issues or on historic preservation "battles" in the Greater Twin Cities Area., conduct research on a historic neighborhood, and prepare detailed research on a single historic building.

ARCH 5731 Territorial City

A-F only, 3 credit(s);

Instructor: Conway, William F

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

ARCH 8251 Graduate Architectural Design I

A-F only, 9 credit(s); prereq MArch or instr consent ;

Instructor: Roe, Sharon Louise

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

ARCH 8253 Graduate Architectural Design III

A-F only, 9 credit(s); prereq [8251, MArch] or instr consent ;

Instructor: Yoos, Jennifer A

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

ARCH 8255 Graduate Architectural Design V

A-F only, 6 credit(s), max credits 12; prereq [8254, grad Arch major] or instr consent ;

Instructor: Conway, William F

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

ARCH 8561 Sustainable Design Theory and Practice

A-F only, 3 credit(s); prereq [5513, [grad MS or MArch]] or instr consent ;

Instructor: Guzowski, Mary M

Description: Architectural design can have a profound influence on the human capacity to create a more sustainable future. This course investigates the theory and practice of sustainable design processes and methods with an emphasis on contemporary and emerging approaches to sustainable architecture. The seminar provides students an opportunity to study sustainable design theory inside and outside the design disciplines and to explore how they influence practice and inform design thinking. The class will provide an overview of sustainable design through readings, local field studies, case study research, and class discussions. Students will develop an understanding of the emerging theories of sustainability and how they connect directly to everyday practice. We will explore how the environment, economy, and equity interact to inform sustainable design

thinking and practice. The goals of the course are to provide: ? Knowledge of ecological design theories and practices that shape sustainable design ? Framework, context, and tools for evaluating sustainable design theory and practice ? Lessons from exemplary precedents and hands-on experience of sustainable design through fieldwork ? An opportunity for students to develop their own sustainable design theory for research and practice

ARCH 8567 Site and Water Issues in Sustainable Design

A-F only, 3 credit(s); prereq [5512, [grad MS or MArch student]] or instr consent ;

Instructor: Strong, Richard B.

Description: This course looks at the issues of water in relation to buildings, sites and sustainable use of water. The "Urban Water Cycle" will be used to calibrate the sustainable use of urban water resources. Water balance formulas as well as water use calculators and sustainable tools will be used to mitigate the impacts of development on the existing urban water cycle. The class will look at water at both a watershed and site scale comparing existing water infrastructure with a new concepts of sustainable water strategies. This is a research course but all the class's exercises are design oriented. Students will have to apply the contents of the course to a design problem that required the student solve the interior and exterior impacts of urban water using design solutions.

Art *Regis Center for Art*

ARTS 1001 Concepts in Visual Art

4 credit(s); Meets CLE req of Other Humanities Core;

Instructor: STAFF

Description: Concepts of visual art-making in contemporary and historical contexts. The media, environment, and concerns of the practicing artist. Creative process, visual expression, criteria. Aesthetic foundation for beginning studio courses. Visiting artists, museum and gallery visits, creative presentations. Required of all art majors.

ARTS 1101 Drawing

4 credit(s); Meets CLE req of Other Humanities Core;

Instructor: STAFF

Description: Introduction to fundamental principles and processes of drawing; exploration of various drawing media. Work from still life, nature, the life model, and imagination.

ARTS 1101 Drawing

4 credit(s); Meets CLE req of Other Humanities Core;

Instructor: Gray, Lynn Arlyn

Description: Introduction to fundamental principles and processes of drawing; exploration of various drawing media. Work from still life, nature, the life model, and imagination.

ARTS 1102 Painting

4 credit(s); prereq 1101 or instr consent Note: Students without stated prerequisites will not be allowed to continue in this course.; Meets CLE req of Other Humanities Core;

Instructor: STAFF

Description: Introduction to painting with attention to understanding and applying the fundamental principles of spatial organization and color interaction.

ARTS 1301 Sculpture

4 credit(s); Meets CLE req of Other Humanities Core;

Instructor: STAFF

Description: An introduction to sculptural practice examining materials, methods, concepts, and history with emphasis on the correlation between concepts and materials. Work in clay, plaster, metal, and wood.

ARTS 1501 Printmaking: Intaglio and Lithography

4 credit(s); Meets CLE req of Other Humanities Core;

Instructor: STAFF

Description: 1501-005 Introduction to Printmaking: Relief and Intaglio. This is an introductory course that explores the concepts and techniques of intaglio processes and relief approaches of woodcut and linoleum as fine art. Students acquire skill and understanding into the aesthetics of of the print, the role of the multiple and the nature of graphics as it relates to personal expression. Familiarization to strategies and concepts of printmaking through historical and contemporary usage is addressed. Emphasis on understanding the interrelationship of process, materials and ideas. This course is designed for undergraduate students across disciplines. It introduces techniques artists employ in the development of visual statements. Hands-on involvement in the production of artwork.

Style: 40% Lecture, 30% Discussion, 30% Laboratory.

Grading: 15% mid exam, 10% reports/papers, 25% class participation, 50% other evaluation. creative engagement

Exam Format: short answer, multiple choice

ARTS 1502 Printmaking: Relief, Screen, and Digital

4 credit(s);

Instructor: STAFF

Description: Introduction to techniques of relief (linoleum and woodcut), screenprint and digital printmaking. Historical approaches and use through contemporary materials, concepts and practices. Emphasis on the interrelationship of process, materials and ideas.

ARTS 1505 Papermaking

4 credit(s); Meets CLE req of Other Humanities Core;

Instructor: Schwartzman, Robin Nicole

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

ARTS 1601 Time and Interactivity

4 credit(s); Meets CLE req of Other Humanities Core;

Instructor: STAFF

Description: This course is intended for the beginning level or non-experienced student interested in exploring new tools, technologies and processes in electronic and digital art. The class includes assignments focused on digital imaging making, digital video, digital sound, digital animation, interactive processes and basic programming languages. Students will explore the developing aesthetic and theoretical domains presented with the intergration of new technologies into creative art practice.

Style: 20% Lecture, 20% Discussion. 60% creative art production

Grading: 10% in-class presentation, 20% class participation, 70% other evaluation. Production and critical evaluation of student art projects

ARTS 1701 Photography

4 credit(s); Meets CLE req of Other Humanities Core;

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 1702 Digital Photography

4 credit(s);

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); Meets CLE req of Other Humanities Core;

Instructor: STAFF

Description: Fundamentals of wheel-thrown and hand-built ceramics as forms of creative expression. Introduction to clay, glazes, and firing techniques.

ARTS 1801 Ceramics

4 credit(s); Meets CLE req of Other Humanities Core;

Instructor: Lane,Thomas J

Description: Fundamentals of wheel-thrown and hand-built ceramics as forms of creative expression. Introduction to clay, glazes, and firing techniques.

ARTS 1905 Freshman Seminar: BioArt

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

Instructor: Olszewski,Neil E

Description: BioArt Victimless Leather alive at MOMA, an artist designed DIY Digestive Table for your kitchen, the One Tree series of genetically identical trees living in San Francisco, and artists "cultivating" consciousness with a Botanical Gameboy each hint at the range of contemporary artwork by artists whose creative work integrally links art and biology. Exploring topics from ecology to molecular biology, artists are accessing, critiquing, and demystifying biotechnology. We will examine the collaborative process between scientist, artist, and the public, the questions that artists and scientists pose, the poetic and political implications of this art, the response of scientists to this portrayal, and ethical issues associated with the creation of this art. These issues will be explored through engagement with living things, reading and discussions that develop critical thinking, as well as laboratory and studio sessions that lead to the creation of BioArt. To see examples of the range of BioArt go to: <http://www.tca.uwa.edu.au/> www.ekac.org/gfpbunny.html <http://hypernatural.com/digestive.html> <http://www.futurefarmers.com/survey/gameboy.php>

ARTS 1905 Freshman Seminar: The Art of Collaboration

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

Instructor: Sommers,Michael J

Description: This introductory seminar presents the characteristics and challenges of collaboration through three representative approaches drawn from visual arts, music, and theater. The course unfolds around concrete problematic situations arising from a collaborative and multimedia-enhanced project.

ARTS 3101 Intermediate Drawing

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

Instructor: Woldorsky,Rochelle

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

ARTS 3101 Intermediate Drawing

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

Instructor: Sugnet,Anne Elizabeth

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

ARTS 3102 Intermediate Painting

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

Instructor: Connaughty,Sean P

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

ARTS 3102 Intermediate Painting

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

Instructor: Feinberg,David L

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

ARTS 3107 Drawing Using Digital Media as an Essential Tool

4 credit(s); prereq 1001, 1101;

Instructor: Katsiaficas,Diane

Description: Description: Drawing using digital media as an essential tool. In this course, we will explore the possibilities of digital technology as an essential tool and component in contemporary drawing. Frameworks for projects will be proposed. These will be concept based with a focus on history and place. The purpose is that proposed projects guide an investigation of representation and aesthetic discourse and help expand both the content and context of your present work. Our approach will be mixed media, utilizing the digital technology available as art making tools and as an important component will be used to expand upon "handmade" images that are already part of your repertoire in past works. To 'draw' on digital works with other media using the skill and expression of an artist (painters, sculptors, etc. etc.) To explore the variations of 'what if?' that are so easily afforded by digital techniques? Our discussion in critique will focus on developing an "open set" of concerns, examining the means of representation (WHY and HOW DID you do that?) as well as the meaning, interpretation and ethics of images (How do we RESPOND?). The emphasis will be on examining substance as well as the production of images. Your output should be appropriate to the idea and the images that result: from posting your work digitally to printing onto a variety of surfaces (rag paper, poly films, vinyl, transparent plastics, canvas, fabric). There will be six class projects. Each project will be reviewed, critiqued and graded. These projects are 70% of your grade. Classroom participation 15%. Attendance 15%. Class Time: 30% Discussion, 50% Laboratory. demos; 10% artist presentations/field trips (Weisman/ Walker Art Center Library/ MCBA)

ARTS 3111 Life Drawing I

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

Instructor: Frank,Valerie Versen

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

ARTS 3301 Sculpture: Direct Metal

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

Instructor: Larson,Chris

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

ARTS 3302 Sculpture: Spatial Problems

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

Instructor: Rose,Thomas Albert

Description: Shadow Lands This course will be an examination of mythic space and mythical concepts of space. The Japanese concept of MA, some of the work of the Japanese Mono-Ha group and Chinese Feng-Shui are each related to the potential for space to be spiritually animated. Students will develop projects based on their individual experiences and unique interests, but look at their work as part of a history of place making. Readings, discussions and site visits will be part of the course. Students may develop work in any medium of their choosing; including photography, video, and constructed or fabricated material. The work may be temporary and transitory in nature or it may be object related. The primary question will be how is a space affected? In the Western world architects such as the 18th century French architect Etienne-Louis Boullée, and the twentieth century Italian Carlo Scarpa created unique environments the capture similar concepts. As this is a studio course and not an art history course these concepts will be studied in relation to the work being developed by the student. The intention of this class is to introduce students to self directed project work and to focus on individual project development. The general topic is how spatial conditions may be used to determine the structures, media, and methods employed by each student. Sculpture is a spatial art, and like architecture, develops connections to place. Students are encouraged to work in media outside of their experience and to explore new themes in their work. The structure of the class is organized around discussion

and critique of work developed individually and in studio. The format is open and casual with students able to work independently. No specific material or media is stressed.

ARTS 3303 Sculpture: Metalcasting

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

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

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

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

Exam Format: Individual and group critique

ARTS 3303 Sculpture: Metalcasting

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

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

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

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

Exam Format: Individual and Group Critique

ARTS 3304 Sculpture: Carving and Construction

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

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

ARTS 3402 Artists' Books

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

Instructor: Pullman, Jana Lee

Description: Student may contact the instructor or department

for information.

ARTS 3444 Major Project

S-N only, 1-3 credit(s), max credits 3, 1 completion allowed;
prereq instr consent ;
Instructor: STAFF

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

ARTS 3496 Internship in the Arts

S-N only, 1-3 credit(s), max credits 3, 1 completion allowed;
prereq BFA Art major, instr consent;
Instructor: STAFF

Description: The internship requirement for students in the BFA Art program may be satisfied through field work at local, regional or national arts organizations or with professional artists. BFA candidates gain experience in activities or in the administration of art or art-based organizations. Student and host organization or artists file a mutual contract approved by the student's BFA Faculty Mentor prior to registration; student and host provide written evaluation of the internship experience at the end of the specified experience.

ARTS 3499 Internship at Katherine E. Nash Gallery

S-N only, 3 credit(s); prereq 1001, instr consent;
Instructor: Shank, Nicholas Bowers

Description: ARTS 3499 INTERNSHIP AT THE KATHERINE E. NASH GALLERY Fall Semester, Spring Semester & Summer Session If you are interested in registering for the internship program, please see Nick Shank in Room 112. You can also contact him at (612) 624-6518; e-mail at shank001@umn.edu The internship at the Nash Gallery is limited to 12 undergraduate students. Grading basis/credits: S-N only, 3 credit(s). Prerequisites: 1001, instructor consent This GREAT "hands-on" internship experience involves: 1) the installation and de-installation of exhibitions in the Nash Gallery 2) experience working with local, national and international artists/curators 3) an introduction to gallery practices 4) learning how to present your work 5) staffing Nash Gallery receptions Please note: Because most of the work is done on weekends, the internship doesn't interfere with other classes. To enroll in the internship program, you must have an interview with Nick Shank at the conclusion of which you will be given a permission number. You must use this permission number when you register for the course.

ARTS 3505 Papermaking as an Art Form

4 credit(s); prereq 1001, 1505 Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Schwartzman, Robin Nicole

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

ARTS 3510 Intermediate Printmaking: Traditional and Contemporary Approaches

4 credit(s), max credits 8; prereq 1001, [1501 or 1502];
Instructor: Marty, Paula Marie

Description: Student may contact the instructor or department

for information.

ARTS 3601 New Media: Making Art Interactive

4 credit(s); prereq 1001W, 1601 Note: Students without stated prerequisites will not be allowed to continue in this course.;

Instructor: Willow,Diane

Description: New Media :: Making Art Interactive introduces new ways of imagining and creating dynamic art that transforms the role of viewers into participants. During the Fall 2009 semester we will use the idea and experience of "permeable boundaries" to begin our explorations with interactive art. This theme will spark a series of playful studio and public art explorations as well as a semester-long independent project that may be developed individually or collaboratively. This course is open to students from all media and disciplines who are interested in exploring how we envision and respond to the permeable boundaries between ourselves and our environments. We will delve into the experience of sensing and extending our senses with technology. This will provide us with a catalyst for interrogating ideas related to art and participation, art and technology, the responsive, the reactive, the interactive and the dynamic. Throughout the semester, technology, theory, and the work of contemporary artists will complement a series of project sketches designed to develop each student's aesthetic language and fluency using materials, electronics, digital media and programmable technologies. Class sessions include discussion, studio work, critique, local adventures, guest artists and project sketches. The course content requires that all students participate fully. The class is structured to encourage a community of learners that benefits from the active exchange of ideas and resources from each participant. The course blog provides a site for documentation, sharing, reflection and problem solving. Our focus on open source technologies such as the arduino and processing provides the opportunity for students to continue to develop their ideas beyond this course.

ARTS 3603 Experimental Video

4 credit(s); prereq 1001W, 1601 Note: Students without stated prerequisites will not be allowed to continue in this course.;

Instructor: Lukkas,Lynn Tjernan

Description: Spring semester 2009 this course will focus on experimental forms of video art integrated with Super 8 filmmaking processes. The class meets with COLA 3950/5950 Super 8 Guerilla Filmmaking. Students will work across digital and Super 8 film process editing on both celluloid film and digital platforms.

ARTS 3604 Animation

4 credit(s); prereq 1001W, 1601 Note: Students without stated prerequisites will not be allowed to continue in this course.;

Instructor: Paul,Stephen

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

ARTS 3701 Photography: Silver Processes

4 credit(s); prereq 1001, 1701 Note: Students without stated prerequisites will not be allowed to continue in this course.;

Instructor: Henkel,James V

Description: This course is designed to involve the student in issues relating to photography as a descriptive art making tool. Students will be expected to apply testing of materials and darkroom techniques to a variety of assignments which are designed to explore thematic topics which are traditional to photographic practice in a contemporary and innovative way. A large percentage of this class involves the mastery of craft and skill based approaches to traditional black and white photographic materials. A historical overview as well as contemporary approaches will be presented. A 35 mm single lens reflex or larger format film style film camera is necessary for this class.

ARTS 3702 Photography: The Extended Image

4 credit(s); prereq 1001, 1701 Note: Students without stated

prerequisites will not be allowed to continue in this course.;

Instructor: Millikan,Jeffrey B

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

ARTS 3703 Photography: Digital Imaging

4 credit(s); prereq 1001, 1701 Note: Students without stated prerequisites will not be allowed to continue in this course.;

Instructor: Newhall,Justin Robb

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

ARTS 3801 Ceramics: Wheel Throwing

4 credit(s), max credits 8; prereq 1001, 1801 Note: Students without stated prerequisites will not be allowed to continue in this course.;

Instructor: Lane,Thomas J

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

ARTS 3802 Ceramics: Handbuilding

4 credit(s), max credits 8; prereq 1001, 1801 Note: Students without stated prerequisites will not be allowed to continue in this course.;

Instructor: Bohls,Margaret

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

ARTS 5107 Advanced Drawing Using Digital Media

4 credit(s); prereq 3107 or instr consent ;

Instructor: Katsiaficas,Diane

Description: Description: Drawing using digital media as an essential tool. In this course, we will explore the possibilities of digital technology as an essential tool and component in contemporary drawing. Frameworks for projects will be proposed. These will be concept based with a focus on history and place. The purpose is that proposed projects guide an investigation of representation and aesthetic discourse and help expand both the content and context of your present work. Our approach will be mixed media, utilizing the digital technology available as art making tools and as an important component will be used to expand upon "handmade" images that are already part of your repertoire in past works. To 'draw' on digital works with other media using the skill and expression of an artist (painters, sculptors, etc. etc.) To explore the variations of 'what if?' that are so easily afforded by digital techniques? Our discussion in critique will focus on developing an "open set" of concerns, examining the means of representation (WHY and HOW DID you do that?) as well as the meaning, interpretation and ethics of images (How do we RESPOND?). The emphasis will be on examining substance as well as the production of images. Your output should be appropriate to the idea and the images that result: from posting your work digitally to printing onto a variety of surfaces (rag paper, poly films, vinyl, transparent plastics, canvas, fabric). There will be six class projects. Each project will be reviewed, critiqued and graded. These projects are 70% of your grade. Classroom participation 15%. Attendance 15%. Class Time: 30% Discussion, 50% Laboratory, demos; 10% artist presentations/field trips (Weisman/ Walker Art Center Library/ MCBA)

ARTS 5110 Advanced Drawing

4 credit(s), max credits 12, 4 completions allowed; prereq 3101 or 3111 or instr consent Note: Students without stated prerequisites will not be allowed to continue in this course.;

Instructor: Lyon,Joyce

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

ARTS 5110 Advanced Drawing

4 credit(s), max credits 12, 4 completions allowed; prereq 3101 or 3111 or instr consent Note: Students without stated prerequisites will not be allowed to continue in this course.;

Instructor: Gray,Lynn Arlyn

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

ARTS 5120 Advanced Painting

4 credit(s), max credits 12, 4 completions allowed; prereq 3102 or instr consent Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Morgan,Clarence E.
Description: Student may contact the instructor or department for information.

ARTS 5120 Advanced Painting

4 credit(s), max credits 12, 4 completions allowed; prereq 3102 or instr consent Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Kuhr,Alexis
Description: Student may contact the instructor or department for information.

ARTS 5310 Advanced Sculpture: Direct Metal

4 credit(s), max credits 12, 4 completions allowed; prereq 3301 or instr consent Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Larson,Chris
Description: Student may contact the instructor or department for information.

ARTS 5320 Advanced Sculpture: Spatial Problems

4 credit(s), max credits 12, 4 completions allowed; prereq 3302 or instr consent Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Rose,Thomas Albert
Description: Shadow Lands This course will be an examination of mythic space and mythical concepts of space. The Japanese concept of MA, some of the work of the Japanese Mono-Ha group and Chinese Feng-Shui are each related to the potential for space to be spiritually animated. Students will develop projects based on their individual experiences and unique interests, but look at their work as part of a history of place making. Readings, discussions and site visits will be part of the course. Students may develop work in any medium of their choosing; including photography, video, and constructed or fabricated material. The work may be temporary and transitory in nature or it may be object related. The primary question will be how is a space affected? In the Western world architects such as the 18th century French architect Etienne-Louis Boullée, and the twentieth century Italian Carlo Scarpa created unique environments the capture similar concepts. As this is a studio course and not an art history course these concepts will be studied in relation to the work being developed by the student. The intention of this class is to introduce students to self directed project work and to focus on individual project development. The general topic is how spatial conditions may be used to determine the structures, media, and methods employed by each student. Sculpture is a spatial art, and like architecture, develops connections to place. Students are encouraged to work in media outside of their experience and to explore new themes in their work. The structure of the class is organized around discussion and critique of work developed individually and in studio. The format is open and casual with students able to work independently. No specific material or media is stressed.

ARTS 5330 Advanced Sculpture: Metal Casting

4 credit(s), max credits 12, 4 completions allowed; prereq 3303 or instr consent Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Potratz,Wayne E
Description: Metal casting of Sculpture is a course where you are asked to think imaginatively and work creatively with a wide variety of materials. The typical student makes three sculptures, one cast in aluminum, one cast in bronze, and one iron casting. Mold materials include resin bonded sand, ceramic shell, green sand, or other sand molding systems. The course is conducted in the University of Minnesota Sculpture Foundry, one of the finest metalcasting facilities at the university level in the nation; the foundry features a 75 KW Induction furnace. Each semester, the coke-fired cupolette is used for an iron pour, which includes guest artists from around the country. This is an advanced sculpture course with an emphasis on the development of

personal imagery in sculpture. At the 5000 level, the course operates more like a tutorial; you should be well on the way to setting your own goals for your work, both conceptually and technically. Thus the assignments do not dictate subject matter. Be prepared to articulate what you want to accomplish within the semester. This fall semester, the course will also explore the Tatara, an ancient Japanese process for making steel directly from Iron Ore. Students will have the opportunity to assist in the building and firing of a clay tatara during the month of October. Participants will receive a portion of the steel made
Style: 5% Lecture, 5% Discussion, 10% Demonstration, 75% Studio, 5% Guest Speakers. This is NOT a topics course!!
Grading: 10% reports/papers, 10% attendance, 5% class participation, 75% other evaluation. Paper is related to the readings and your own work in sculpture.
Exam Format: Final critique of sculpture produced

ARTS 5340 Advanced Sculpture: Carving and Construction

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

ARTS 5400 Seminar: Concepts and Practices in Art

3 credit(s), max credits 6; prereq BFA candidate or instr consent Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Baeumler,Christine Arle
Description: Student may contact the instructor or department for information.

ARTS 5402 Artists' Books

4 credit(s); prereq 3402 or instr consent Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Pullman,Jana Lee
Description: Student may contact the instructor or department for information.

ARTS 5444 Bachelor of Fine Arts Exhibition

S-N only, 1 credit(s); prereq 5400, BFA candidate, sr;
Instructor: Pharis,Mark W
Description: Student may contact the instructor or department for information.

ARTS 5444 Bachelor of Fine Arts Exhibition

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

ARTS 5444 Bachelor of Fine Arts Exhibition

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

ARTS 5444 Bachelor of Fine Arts Exhibition

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

ARTS 5444 Bachelor of Fine Arts Exhibition

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

ARTS 5444 Bachelor of Fine Arts Exhibition

S-N only, 1 credit(s); prereq 5400, BFA candidate, sr;
Instructor: Feinberg,David L
Description: Student may contact the instructor or department

for information.

ARTS 5444 Bachelor of Fine Arts Exhibition

S-N only, 1 credit(s); prereq 5400, BFA candidate, sr;

Instructor: Morgan, Clarence E.

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

ARTS 5444 Bachelor of Fine Arts Exhibition

S-N only, 1 credit(s); prereq 5400, BFA candidate, sr;

Instructor: Katsiaficas, Diane

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

ARTS 5444 Bachelor of Fine Arts Exhibition

S-N only, 1 credit(s); prereq 5400, BFA candidate, sr;

Instructor: Henkel, James V

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

ARTS 5444 Bachelor of Fine Arts Exhibition

S-N only, 1 credit(s); prereq 5400, BFA candidate, sr;

Instructor: Rose, Thomas Albert

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

ARTS 5444 Bachelor of Fine Arts Exhibition

S-N only, 1 credit(s); prereq 5400, BFA candidate, sr;

Instructor: Lane, Thomas J

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

ARTS 5444 Bachelor of Fine Arts Exhibition

S-N only, 1 credit(s); prereq 5400, BFA candidate, sr;

Instructor: Gray, Lynn Arlyn

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

ARTS 5444 Bachelor of Fine Arts Exhibition

S-N only, 1 credit(s); prereq 5400, BFA candidate, sr;

Instructor: Potratz, Wayne E

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

ARTS 5444 Bachelor of Fine Arts Exhibition

S-N only, 1 credit(s); prereq 5400, BFA candidate, sr;

Instructor: Krepps, Jerald A

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

ARTS 5444 Bachelor of Fine Arts Exhibition

S-N only, 1 credit(s); prereq 5400, BFA candidate, sr;

Instructor: Kuhr, Alexis

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

ARTS 5444 Bachelor of Fine Arts Exhibition

S-N only, 1 credit(s); prereq 5400, BFA candidate, sr;

Instructor: Bohls, Margaret

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

ARTS 5444 Bachelor of Fine Arts Exhibition

S-N only, 1 credit(s); prereq 5400, BFA candidate, sr;

Instructor: Estep, Jan

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

ARTS 5444 Bachelor of Fine Arts Exhibition

S-N only, 1 credit(s); prereq 5400, BFA candidate, sr;

Instructor: Willow, Diane

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

ARTS 5444 Bachelor of Fine Arts Exhibition

S-N only, 1 credit(s); prereq 5400, BFA candidate, sr;

Instructor: Momeni, Ali

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

ARTS 5490 Workshop in Art

2 credit(s), max credits 12, 12 completions allowed;

Instructor: Rose, Thomas Albert

Description: Title: Beijing Now, Arts 5-490 Fall 2009
Photographic exploration and collaboration Thomas Rose U of M, Tang, Meng, Beijing Film Academy Weiji ?Crisis=Opportunity
Beijing Now, Arts 5-490 workshop will be a photographic exploration and collaboration on the topic Weiji ?Crisis=Opportunity with the faculty and students in the School of photography at the Beijing Film Academy This topic was chosen by the faculties in photography at the U of M and the Beijing film Academy to address current social, economic and political realities in the world today. We often hear that we are in the midst of a crisis; personal, local or international; war, famine, disease, etc. It is also true that any crisis is a reshuffling of the cards and offers unique opportunities to restructure our thinking and our actions. This project is an opportunity for you to review and reshape your current thinking. Students develop the theme photographically interpreting Crisis=Opportunity from your own perspective sharing your work and ideas with peers at both institutions. The work will be reviewed during the semester with our faculty in photography as well as the faculty at the BFA. At the end of the semester up to five students will be selected to travel to Beijing to work further on their projects and will then be part of an exhibition in Beijing and Minneapolis with a catalogue documenting the work accomplished. The class will also study aspects of contemporary photography in China, specifically in Beijing Promoting and enhancing effective cross-cultural communication and cultural understanding by engaging in the specific project and directed research study. Professor Rose and BFA faculty Tang Meng will direct the class. There will be reviews and critiques with Jim Henkel, Gary Hallman and others.

ARTS 5510 Advanced Printmaking

4 credit(s), max credits 12, 3 completions allowed; prereq

3510 or instr consent Note: Students without stated prerequisites will not be allowed to continue in this course.;

Instructor: Krepps, Jerald A

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; prereq

3601 or instr consent Note: Students without stated prerequisites will not be allowed to continue in this course.;

Instructor: Willow, Diane

Description: New Media :: Making Art Interactive introduces new ways of imagining and creating dynamic art that transforms the role of viewers into participants. During the Fall 2009 semester we will use the idea and experience of "permeable boundaries" to begin our explorations with interactive art. This theme will spark a series of playful studio and public art explorations as well as a semester-long independent project that may be developed individually or collaboratively. This course is open to students from all media and disciplines who are interested in exploring how we envision and respond to the permeable boundaries between ourselves and our environments. We will delve into the experience of sensing and extending our senses with technology. This will provide us with a catalyst for interrogating ideas related to art and participation, art and technology, the responsive, the reactive, the interactive and the dynamic. Throughout the semester, technology, theory, and the work of contemporary artists will complement a series of project sketches designed to develop each student's aesthetic language and fluency using materials, electronics, digital media and programmable technologies. Class sessions include discussion, studio work, critique, local adventures, guest artists and project sketches. The course content requires that all students participate fully. The class is structured to encourage a community of learners that benefits from the active exchange of ideas and resources from each participant. The course blog

provides a site for documentation, sharing, reflection and problem solving. Our focus on open source technologies such as the arduino and processing provides the opportunity for students to continue to develop their ideas beyond this course.

ARTS 5630 Advanced Experimental Video

4 credit(s), max credits 12, 3 completions allowed; prereq 3603 or instr consent Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Lukkas,Lynn Tjernan

Description: Spring semester 2009 this course will focus on experimental forms of video art integrated with Super 8 filmmaking processes. The class meets with COLA 3950/5950 Super 8 Guerilla Filmmaking. Students will work across digital and Super 8 film process editing on both celluloid film and digital platforms.

ARTS 5640 Advanced Animation

4 credit(s), max credits 12, 3 completions allowed; prereq 3604 or instr consent Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Paul,Stephen

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

ARTS 5710 Advanced Photography

4 credit(s), max credits 12, 3 completions allowed; prereq Two semesters of 3xxx photography or instr consent Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Rainio,Minna Kristiina

Description: Advanced Photography: Images of me and you, us and them. Political, cultural and gender identity in contemporary photography and media art. During this course we will explore the questions of identity and power in relation to photographic representations. We will look at works by contemporary artists who have dealt in their art with the broad theme of identity from different angles. In addition to artists from Europe and the US, we will widen our horizons by specifically getting to know artists' work from outside the hegemonic European/American context ? for example contemporary Asian and Middle-Eastern artists. We will look at how artists have deconstructed and re-imagined the concepts of ethnicity, gender, sexuality and nationality in their works. During the course students will plan and complete a project that deals with the themes and topics investigated during the classes. The finished work can be a series of photographs, an installation, a book, or a mixed media artwork in some other form. The course structure The course consists of lectures, seminar discussions, assigned readings and students' presentations. During the lectures students are introduced to the work of artists dealing with and challenging the ideas of identity, gender, nationality and ethnicity.

Exam Format: Project based

ARTS 5810 Advanced Ceramics

4 credit(s), max credits 12, 4 completions allowed; prereq [3801, 3802, 3810] or instr consent Note: Students without stated prerequisites will not be allowed to continue in this course.;

Instructor: Pharis,Mark W

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

ARTS 5990 Independent Study in Art

1-4 credit(s), max credits 12, 4 completions allowed; prereq Major, completed regular course with instructor, instr consent ;

Instructor: Pharis,Mark W

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

ARTS 5990 Independent Study in Art

1-4 credit(s), max credits 12, 4 completions allowed; prereq Major, completed regular course with instructor, instr consent ;

Instructor: Lyon,Joyce

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

ARTS 5990 Independent Study in Art

1-4 credit(s), max credits 12, 4 completions allowed; prereq Major, completed regular course with instructor, instr consent ;

Instructor: Lukkas,Lynn Tjernan

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

ARTS 5990 Independent Study in Art

1-4 credit(s), max credits 12, 4 completions allowed; prereq Major, completed regular course with instructor, instr consent ;

Instructor: Larson,Chris

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

ARTS 5990 Independent Study in Art

1-4 credit(s), max credits 12, 4 completions allowed; prereq Major, completed regular course with instructor, instr consent ;

Instructor: Baeumler,Christine Arle

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

ARTS 5990 Independent Study in Art

1-4 credit(s), max credits 12, 4 completions allowed; prereq Major, completed regular course with instructor, instr consent ;

Instructor: Feinberg,David L

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

ARTS 5990 Independent Study in Art

1-4 credit(s), max credits 12, 4 completions allowed; prereq Major, completed regular course with instructor, instr consent ;

Instructor: Morgan,Clarence E.

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

ARTS 5990 Independent Study in Art

1-4 credit(s), max credits 12, 4 completions allowed; prereq Major, completed regular course with instructor, instr consent ;

Instructor: Katsiaficas,Diane

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

ARTS 5990 Independent Study in Art

1-4 credit(s), max credits 12, 4 completions allowed; prereq Major, completed regular course with instructor, instr consent ;

Instructor: Henkel,James V

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

ARTS 5990 Independent Study in Art

1-4 credit(s), max credits 12, 4 completions allowed; prereq Major, completed regular course with instructor, instr consent ;

Instructor: Rose,Thomas Albert

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

ARTS 5990 Independent Study in Art

1-4 credit(s), max credits 12, 4 completions allowed; prereq Major, completed regular course with instructor, instr consent ;

Instructor: Lane,Thomas J

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

ARTS 5990 Independent Study in Art

1-4 credit(s), max credits 12, 4 completions allowed; prereq Major, completed regular course with instructor, instr consent ;

Instructor: Gray,Lynn Arlyn

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

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

ARTS 8100 Drawing and Painting: Theory and Practice

3 credit(s), max credits 12, 4 completions allowed; prereq Art MFA student;

Instructor: Feinberg,David L

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

ARTS 5990 Independent Study in Art

1-4 credit(s), max credits 12, 4 completions allowed; prereq Major, completed regular course with instructor, instr consent ;

Instructor: Potratz,Wayne E

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

ARTS 8100 Drawing and Painting: Theory and Practice

3 credit(s), max credits 12, 4 completions allowed; prereq Art MFA student;

Instructor: Morgan,Clarence E.

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

ARTS 5990 Independent Study in Art

1-4 credit(s), max credits 12, 4 completions allowed; prereq Major, completed regular course with instructor, instr consent ;

Instructor: Krepps,Jerald A

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

ARTS 8100 Drawing and Painting: Theory and Practice

3 credit(s), max credits 12, 4 completions allowed; prereq Art MFA student;

Instructor: Katsiaficas,Diane

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

ARTS 5990 Independent Study in Art

1-4 credit(s), max credits 12, 4 completions allowed; prereq Major, completed regular course with instructor, instr consent ;

Instructor: Kuhr,Alexis

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

ARTS 8100 Drawing and Painting: Theory and Practice

3 credit(s), max credits 12, 4 completions allowed; prereq Art MFA student;

Instructor: Gray,Lynn Arlyn

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

ARTS 5990 Independent Study in Art

1-4 credit(s), max credits 12, 4 completions allowed; prereq Major, completed regular course with instructor, instr consent ;

Instructor: Bohls,Margaret

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

ARTS 8100 Drawing and Painting: Theory and Practice

3 credit(s), max credits 12, 4 completions allowed; prereq Art MFA student;

Instructor: Kuhr,Alexis

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

ARTS 5990 Independent Study in Art

1-4 credit(s), max credits 12, 4 completions allowed; prereq Major, completed regular course with instructor, instr consent ;

Instructor: Estep,Jan

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

ARTS 8400 Theoretical Constructions in Contemporary Art

3 credit(s), max credits 6;

Instructor: Estep,Jan

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

ARTS 5990 Independent Study in Art

1-4 credit(s), max credits 12, 4 completions allowed; prereq Major, completed regular course with instructor, instr consent ;

Instructor: Willow,Diane

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

ARTS 8410 Studio Critique

A-F only, 3 credit(s), max credits 6; prereq 8400;

Instructor: Lukkas,Lynn Tjernan

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

ARTS 5990 Independent Study in Art

1-4 credit(s), max credits 12, 4 completions allowed; prereq Major, completed regular course with instructor, instr consent ;

Instructor: Momeni,Ali

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

ARTS 8500 Printmaking: Theory and Practice

3 credit(s), max credits 12, 4 completions allowed;

Instructor: Krepps,Jerald A

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

ARTS 8100 Drawing and Painting: Theory and Practice

3 credit(s), max credits 12, 4 completions allowed; prereq Art MFA student;

Instructor: Lyon,Joyce

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

ARTS 8600 Time and Interactivity: Theory and Practice

3 credit(s), max credits 12, 4 completions allowed;

Instructor: Lukkas,Lynn Tjernan

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

ARTS 8100 Drawing and Painting: Theory and Practice

3 credit(s), max credits 12, 4 completions allowed; prereq Art MFA student;

Instructor: Baeumler,Christine Arle

ARTS 8600 Time and Interactivity: Theory and Practice

3 credit(s), max credits 12, 4 completions allowed;

Instructor: Willow,Diane

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

ARTS 8600 Time and Interactivity: Theory and Practice

3 credit(s), max credits 12, 4 completions allowed;

Instructor: Momeni,Ali

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

ARTS 8700 Photography: Theory and Practice

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

ARTS 8700 Photography: Theory and Practice

3 credit(s), max credits 12, 4 completions allowed;
Instructor: Estep,Jan
Description: Contemporary issues in the production of photographic images. Generally restricted to graduate students in the Department of Art MFA program. Please contact instructor for permission to register for this course.

ARTS 8700 Photography: Theory and Practice

3 credit(s), max credits 12, 4 completions allowed;
Instructor: Rainio,Minna Kristiina
Description: Student may contact the instructor or department for information.

ARTS 8800 Ceramics: Theory and Practice

A-F only, 3 credit(s), max credits 12, 4 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; prereq Art MFA candidate, passed oral/written prelim, instr consent;
Instructor: Pharis,Mark W
Description: Student may contact the instructor or department for information.

ARTS 8990 M.F.A. Creative Thesis

1-9 credit(s), max credits 18, 18 completions allowed; prereq Art MFA candidate, passed oral/written prelim, instr consent;
Instructor: Lyon,Joyce
Description: Student may contact the instructor or department for information.

ARTS 8990 M.F.A. Creative Thesis

1-9 credit(s), max credits 18, 18 completions allowed; prereq Art MFA candidate, passed oral/written prelim, instr consent;
Instructor: Lukkas,Lynn Tjerman
Description: Student may contact the instructor or department for information.

ARTS 8990 M.F.A. Creative Thesis

1-9 credit(s), max credits 18, 18 completions allowed; prereq Art MFA candidate, passed oral/written prelim, instr consent;
Instructor: Baeumler,Christine Arle
Description: Student may contact the instructor or department for information.

ARTS 8990 M.F.A. Creative Thesis

1-9 credit(s), max credits 18, 18 completions allowed; prereq Art MFA candidate, passed oral/written prelim, instr consent;
Instructor: Feinberg,David L
Description: Student may contact the instructor or department for information.

ARTS 8990 M.F.A. Creative Thesis

1-9 credit(s), max credits 18, 18 completions allowed; prereq Art MFA candidate, passed oral/written prelim, instr consent;
Instructor: Morgan,Clarence E.
Description: Student may contact the instructor or department for information.

ARTS 8990 M.F.A. Creative Thesis

1-9 credit(s), max credits 18, 18 completions allowed; prereq

Art MFA candidate, passed oral/written prelim, instr consent;
Instructor: Katsiaficas,Diane
Description: Student may contact the instructor or department for information.

ARTS 8990 M.F.A. Creative Thesis

1-9 credit(s), max credits 18, 18 completions allowed; prereq Art MFA candidate, passed oral/written prelim, instr consent;
Instructor: Henkel,James V
Description: Student may contact the instructor or department for information.

ARTS 8990 M.F.A. Creative Thesis

1-9 credit(s), max credits 18, 18 completions allowed; prereq Art MFA candidate, passed oral/written prelim, instr consent;
Instructor: Rose,Thomas Albert
Description: Student may contact the instructor or department for information.

ARTS 8990 M.F.A. Creative Thesis

1-9 credit(s), max credits 18, 18 completions allowed; prereq Art MFA candidate, passed oral/written prelim, instr consent;
Instructor: Lane,Thomas J
Description: Student may contact the instructor or department for information.

ARTS 8990 M.F.A. Creative Thesis

1-9 credit(s), max credits 18, 18 completions allowed; prereq Art MFA candidate, passed oral/written prelim, instr consent;
Instructor: Gray,Lynn Arlyn
Description: Student may contact the instructor or department for information.

ARTS 8990 M.F.A. Creative Thesis

1-9 credit(s), max credits 18, 18 completions allowed; prereq Art MFA candidate, passed oral/written prelim, instr consent;
Instructor: Potratz,Wayne E
Description: Student may contact the instructor or department for information.

ARTS 8990 M.F.A. Creative Thesis

1-9 credit(s), max credits 18, 18 completions allowed; prereq Art MFA candidate, passed oral/written prelim, instr consent;
Instructor: Krepps,Jerald A
Description: Student may contact the instructor or department for information.

ARTS 8990 M.F.A. Creative Thesis

1-9 credit(s), max credits 18, 18 completions allowed; prereq Art MFA candidate, passed oral/written prelim, instr consent;
Instructor: Kuhr,Alexis
Description: Student may contact the instructor or department for information.

ARTS 8990 M.F.A. Creative Thesis

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

ARTS 8990 M.F.A. Creative Thesis

1-9 credit(s), max credits 18, 18 completions allowed; prereq

Art MFA candidate, passed oral/written prelim, instr consent;
Instructor: Yamada,Tetsuya
Description: Student may contact the instructor or department for information.

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

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

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

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

Art History

338 Heller Hall

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

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

ARTH 1921W Introduction to Film Study
4 credit(s); Credit will not be granted if credit has been received for: CSCL 1921; Meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive;
Instructor: Silberman,Robert B

Description: This course provides an introduction to the fundamentals of film analysis and media study. Readings and lectures cover the technical, economic, social, and cultural aspects of film, from how the film industry and studios work to how films are marketed in the mass media and exhibited. Primary emphasis is on feature-length narrative fiction films, but attention is also paid to documentaries, animation, avant-garde and experimental film and video, television (news, sit-coms, soaps, sports, MTV, etc.), and New Media. The lectures and discussions will consider the relationship between the media and other areas of culture (politics, the music business, the mall world) and between film studies and other areas of knowledge (social history, literary study, art history, etc.). The history of film and media studies as a discipline is also considered. The course uses detailed analysis of a series of films, including Murnau's "Nosferatu," John Ford's "Stagecoach," Michael Curtiz's "Casablanca," Jean-Luc Godard's "Breathless," Ridley Scott's "Blade Runner," Spike Lee's "Do the Right Thing," and David Russell's "Three Kings" to develop an understanding of the basic concepts of film analysis and the basic elements of film production and distribution. These films also provide an ideal arena for exploring questions about the cinematic representation of minorities, gender roles, and the relationship between Hollywood and foreign film industries.

Style: 50% Lecture, 25% Discussion. Screenings
Grading: 20% mid exam, 35% final exam, 40% reports/papers.
Exam Format: Exams include Short answer (ID, multiple choice, definition + example) and take-home essays.

ARTH 3009 History of Medieval Art
4 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core;
Instructor: Steyaert,John W
Description: The course surveys major representative works of Medieval European architecture, sculpture, painting and the minor arts from Early Christian through Gothic (300-1400 C.E.). The material is presented in lectures illustrated by slides and supplemented by a study of originals in the Minneapolis Institute of Art. Principal textbook: H. W. Janson, "History of Art." Lectures emphasize: 1. an analysis of important monuments in terms of salient characteristics of subject and style; 2. a discussion of their place in a historical development, conditioned by changing social function. Target audience: all undergraduates. No prior art history background is required. Students will use the Art History Department's Visual Resources Center Web Site.
Style: 75% Lecture, 25% Discussion.
Grading: 20% mid exam, 50% final exam, 20% reports/papers, 10% class participation.
Exam Format: Slide identification and discussion; essay (on final, take-home essay)

ARTH 3012 19th and 20th Century Art
3 credit(s);
Instructor: Weisberg,Gabriel
Description: Major monuments and issues of modern period: sculpture, architecture, painting, and prints. Movements include neo-classicism, romanticism, realism, impressionism, evolution of modernism, symbolism, fauvism, cubism, dadaism, surrealism, abstract expressionism, pop art, conceptualism, and post-modernism. A term paper, based on a close reading and interpretation of a selected painting or sculpture in the MIA Collection will be required. Course Requirements: Mid-term, Final Exam and a Term Paper.

ARTH 3015W Art of Islam
4 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive;
Instructor: Asher,Catherine B
Description: Learn about the importance of art and architecture

in the development of Islamic society and culture. This course will focus on the Art of Islam from the origins of Islam to the present, covering much of the Islamic world. Focus will be on architecture and painting, among other arts. The cultural, political and religious milieu, as well as the role of the patron under which art works were created, will be discussed. The material will be approached geographically and chronologically; throughout the course the features and themes that unify the diverse artistic trends and styles produced throughout the Islamic world will be discussed. All slides will be available for viewing on the course web site.

Style: 80% Lecture, 15% Discussion. a once a week section is also part of the class

Grading: 25% final exam, 35% reports/papers, 20% quizzes, 10% class participation, 10% other evaluation. log book which is written in class

Exam Format: short essay

ARTH 3162 Roman Art and Archaeology

4 credit(s); Credit will not be granted if credit has been received for: CNES 3162; Meets CLE req of Other Humanities Core;

Instructor: Mc Nally,Sheila J

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

ARTH 3930 Junior-Senior Seminar: Velazquez, Zurbaran, and the Court of Philip IV

A-F only, 3 credit(s); prereq [Jr or sr] Arth major, instr consent ;

Instructor: Ostrow,Steven F

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

ARTH 3940 Topics in Art History: The Cinema of Alfred Hitchcock

3 credit(s), max credits 12, 12 completions allowed;

Instructor: Silberman,Robert B

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

ARTH 3975 Directed Museum Experience

OPT No Aud, 1-2 credit(s), max credits 2, 1 completion allowed; prereq instr consent ;

Instructor: STAFF

Description: The student is responsible for obtaining an internship in an art institution or museum which must be approved by the Director of Undergraduate Studies in Art History. For 2 credits the internship must be for at least 10 hours per week. S/N registration only. Open to majors and non-majors. Speak with the ARH DUGS for more information.

Style: On-site internship.

Grading: Grade (S-N) recommended by intern supervisor.

ARTH 3993 Directed Study

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

Instructor: Asher,Catherine B

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

ARTH 3993 Directed Study

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

Instructor: Cooper,Frederick A

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

ARTH 3993 Directed Study

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

Instructor: Poor,Robert John

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

ARTH 3993 Directed Study

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

Instructor: Mc Nally,Sheila J

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

ARTH 3993 Directed Study

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

Instructor: Weisberg,Gabriel

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

ARTH 3993 Directed Study

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

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; prereq instr consent;

Instructor: Steyaert,John W

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

ARTH 3993 Directed Study

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

Instructor: Silberman,Robert B

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

ARTH 3993 Directed Study

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

Instructor: Blocker,Jane M

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

ARTH 3993 Directed Study

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

Instructor: Gaudio,Michael P

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

ARTH 3993 Directed Study

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

Instructor: 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; prereq instr consent;

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; prereq instr consent;

Instructor: Marshall PhD,Jennifer Jane

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

ARTH 5182 Art and the State: Public Art in the Roman Empire

3 credit(s); prereq One intro art history course or instr consent ; Credit will not be granted if credit has been received for: CNES 5182;

Instructor: Mc Nally,Sheila J

Description: Student may contact the instructor or department

for information.

ARTH 5324 15th-Century Painting in Northern Europe

3 credit(s); prereq jr or sr or grad or instr consent;

Instructor: Steyaert,John W

Description: This course focuses on: 1) French International Gothic manuscript painting (Bondol, Limbourg Brothers, Boucicaut Master) and sculpture (Beauneveu, Sluter) as background; and, 2) An in-depth study of Flemish realism in panel painting (Van Eyck Brothers, Robert Campin, Rogier van der Weyden). Works are considered in terms of style, subject matter and symbolism, patronage, audience, and general social function.

Style: 80% Lecture, 20% Discussion.

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

Exam Format: Essay, and slide identification and analysis

ARTH 5454 Design Reform in the Era of Art Nouveau

3 credit(s);

Instructor: Weisberg,Gabriel

Description: The design reform era (1885-1930) is examined in France, Belgium, England, Germany, Austria, Scotland and the United States. Innovations in architecture, graphic arts, the applied arts (furniture, jewelry, fabrics) are studied. The major promoters and pioneers of modern design are discussed in this slide lecture class. Critical issues of design reform are examined; texts are integrated with a discussion of the principal monuments. Course texts include: Jeremy Howard, Art Nouveau, International and National Styles in Europe (1996) and Debora L. Silverman, Art Nouveau in Fin de Siecle France, Politics, Psychology and Style (1989). The target audience includes all students interested in visual culture, the history of thematic art history and humanities majors, art history majors. Slide reviews strengthen learning, a research paper, worked out through discussions with the professor, is essential. Original thematic content encouraged.

Style: 80% Lecture, 20% Discussion.

Grading: 30% mid exam, 40% final exam, 30% reports/papers.

Exam Format: Slide exams and essays

ARTH 5575 Boom to Bust: American Art from the Roaring Twenties to the Great Depression

3 credit(s);

Instructor: Marshall PhD,Jennifer Jane

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

ARTH 5785 Art of Islamic Iran

3 credit(s);

Instructor: Asher,Catherine B

Description: This course will consider the development of Iranian art and architecture from the introduction of Islam in the 7th century to the present. Muslim rulers brought new customs, which meld with older Iranian traditions producing a culture unique in the Islamic world. Throughout this course we will question which art forms are universally Islamic and which are unique to the region. We will probe which ideas and their visual manifestation seem to be inherently Iranian, asking which ones transcend dynastic, linguistic,geographic and religious differences and which forms and ideas are consistent throughout these periods of political and ideological change. Among the works we will consider are paintings from the Book of Kings, the Iranian national epic, the magnificent city of Isfahan, the palaces of the Pahlavi Shahs, the tomb of Khomeini and contemporary Iranian films such as Color of Paradise, Taste of Cherry and Children of Paradise. This class will be a combination of lecture and discussion. Undergraduates will write a 8 - 10 page research paper; graduate students should see the instructor for requirements.

Style: 75% Lecture, 25% Discussion.

Grading: 30% reports/papers, 10% class participation, 60% other evaluation. Take home essay (20% each)

Exam Format: essay

ARTH 5940 Topics: Art of the Film: Cinema of Alfred Hitchcock

3 credit(s);

Instructor: Silberman,Robert B

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

ARTH 5993 Directed Study

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

Instructor: Sheehy,Colleen J

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

ARTH 5993 Directed Study

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

Instructor: Asher,Catherine B

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

ARTH 5993 Directed Study

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

Instructor: Cooper,Frederick A

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

ARTH 5993 Directed Study

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

Instructor: Poor,Robert John

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

ARTH 5993 Directed Study

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

Instructor: Mc Nally,Sheila J

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

ARTH 5993 Directed Study

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

Instructor: Weisberg,Gabriel

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

ARTH 5993 Directed Study

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

Instructor: Asher,Frederick M

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

ARTH 5993 Directed Study

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

Instructor: Steyaert,John W

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

ARTH 5993 Directed Study

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

Instructor: Silberman,Robert B

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

ARTH 5993 Directed Study

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

Instructor: Blocker,Jane M

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

ARTH 5993 Directed Study

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

ARTH 5993 Directed Study

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

ARTH 5993 Directed Study

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

ARTH 8440 Seminar: Contemporary Art

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

ARTH 8970 Directed Studies

1-3 credit(s), max credits 12, 12 completions allowed; prereq instr consent;
Instructor: Asher, Catherine B
Description: Student may contact the instructor or department for information.

ARTH 8970 Directed Studies

1-3 credit(s), max credits 12, 12 completions allowed; prereq instr consent;
Instructor: Cooper, Frederick A
Description: Student may contact the instructor or department for information.

ARTH 8970 Directed Studies

1-3 credit(s), max credits 12, 12 completions allowed; prereq instr consent;
Instructor: Poor, Robert John
Description: Student may contact the instructor or department for information.

ARTH 8970 Directed Studies

1-3 credit(s), max credits 12, 12 completions allowed; prereq instr consent;
Instructor: Marling, Karal Ann Rose
Description: Student may contact the instructor or department for information.

ARTH 8970 Directed Studies

1-3 credit(s), max credits 12, 12 completions allowed; prereq instr consent;
Instructor: Mc Nally, Sheila J
Description: Student may contact the instructor or department for information.

ARTH 8970 Directed Studies

1-3 credit(s), max credits 12, 12 completions allowed; prereq instr consent;
Instructor: Weisberg, Gabriel
Description: Student may contact the instructor or department for information.

ARTH 8970 Directed Studies

1-3 credit(s), max credits 12, 12 completions allowed; prereq instr consent;
Instructor: Asher, Frederick M
Description: Student may contact the instructor or department for information.

ARTH 8970 Directed Studies

1-3 credit(s), max credits 12, 12 completions allowed; prereq instr consent;
Instructor: Steyaert, John W
Description: Student may contact the instructor or department for information.

ARTH 8970 Directed Studies

1-3 credit(s), max credits 12, 12 completions allowed; prereq instr consent;
Instructor: Silberman, Robert B
Description: Student may contact the instructor or department for information.

ARTH 8970 Directed Studies

1-3 credit(s), max credits 12, 12 completions allowed; prereq instr consent;
Instructor: Blocker, Jane M
Description: Student may contact the instructor or department for information.

ARTH 8970 Directed Studies

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

ARTH 8970 Directed Studies

1-3 credit(s), max credits 12, 12 completions allowed; prereq instr consent;
Instructor: Ostrow, Steven F
Description: Student may contact the instructor or department for information.

Asian American Studies

104 Scott Hall

AAS 1101 Imagining Asian America

3 credit(s); Meets CLE req of Citizenship/Public Ethics Theme; meets CLE req of Cultural Diversity Theme;
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. 6 short essays, 2-3 pages (60%) Group curriculum project - presentation oral and written (20%)

AAS 1201 Racial Formation and Transformation in the United States
3 credit(s);

Instructor: Onishi, Yuichiro

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

Grading: 25% mid exam, 60% reports/papers, 15% class participation.

AAS 1902 Freshman Seminar: Asian Americans & US Race Relations

3 credit(s); prereq Fr; Meets CLE req of Cultural Diversity Theme;

Instructor: Lee, Erika

Description: While the Asian American population is one of the fastest growing in the United States, it remains largely misrepresented or ignored in American culture and politics. This seminar will examine the place of Asian Americans in U.S. race relations through law, history, sociology, and popular culture. We will begin by asking the questions: Where do Asian Americans fit into the larger multiracial context of the U.S. and theories of race relations? What does it mean when Asian Americans are described as "perpetual foreigners," the "yellow peril," "potential terrorists," "honorary whites," or "model minorities"? How have Asian Americans experienced racism and discrimination? What are some contemporary race issues affecting Asian Americans, and what are they doing about them? What is the importance of race in the "age of Obama"?

AAS 3001 Contemporary Perspectives on Asian America
3 credit(s); Meets CLE req of Cultural Diversity Theme;

Instructor: Fajardo, Kale Bantigue

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

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

Grading: 40% reports/papers, 40% class participation, 20% other evaluation. Final Project

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

A-F only, 3 credit(s); prereq Soc majors/minors must register A-F; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core; meets CLE req of Writing Intensive;

Instructor: Swartz, Teresa Toguchi

Description: This course will explore the ways in which race, class and gender organize and impact social life for individuals and society as a whole. We will begin with a brief introduction to the general conceptual challenges that race, class and gender pose for typical, commonsense understandings of American society. We will then examine class, gender and race on their own terms and as they intersect with one another, attending to the ways they are constructed, experienced, and connected with social stratification and inequalities in power, status and privilege. We will explore how race, class, and gender shape and are shaped by social institutions, including work, education, family, and social policy, and will conclude by discussing implications for politics and social change. The class will focus primarily on the United States. This class is writing intensive and student will choose to write a paper based on a community service learning experience or complete a research paper.

Style: 45% Lecture, 20% Film/Video, 35% Discussion.

AAS 3270 Service Learning in the Asian Community
2 credit(s), max credits 8, 4 completions allowed; prereq instr consent ;

Instructor: Lee, Juavah

Description: This Service Learning course is designed to provide academic, social and cultural support to the new Hmong refugee students from Wat Tham Krabok. This course will give the new Hmong refugee students the opportunity to learn English and exchange cultural experience with University of Minnesota students. The main focus of this course is to promote literacy by focusing on English readings. While assisting with the English learning, university students and elementary students may also work on cultural exchange and/or other subject matters. Students that are interested in working with other Asian American communities can also be arranged.

Style: 30% Lecture, 70% Discussion.

Grading: 40% reports/papers, 30% class participation, 30% other evaluation. volunteer

Exam Format: no exam

AAS 3501 Asian America Through Arts and Culture
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core;

Instructor: Isler, Hilal Nakiboglu

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

AAS 3920 Topics in Asian American Studies: Introduction to U.S. Immigration

3 credit(s), max credits 8; prereq Jr or sr;

Instructor: Park, Lisa Sun-Hee

Description: This introductory course will focus on the ways immigrant communities have transformed the foundations of American life. We will tackle three particular themes that have a significant presence within public discourse surrounding immigrants and immigration: new racial transformations, the immigrant narrative, and social citizenship. In doing this, we will discuss the impact of immigrants on the ideologies and institutions that structure our communities and society. Required texts include: Whiteness of a Different Color, by Matthew Frye Jacobson; Domestica, by Pierrette Hongdagneu-Sotelo; Homebound, by Yen Espiritu; Black Identities, by Mary Waters; The Latehomecomer, by Kao Kalia Yang; Entry Denied, by Eithne Luibheid

AAS 4311 Asian American Literature and Drama

A-F only, 3 credit(s);

Instructor: Lee, Josephine D

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

AAS 5920 Topics in Asian American Studies: Comparative Race/Ethnicity/Diaspora in the US

3 credit(s), max credits 12, 3 completions allowed;

Instructor: Desai, Jigna

Description: Our very notions of native citizen was forged against "aliens ineligible for citizenship," our ideas of cultural

appropriateness were formulated in relation to groups deemed to have "excessive culture" on the one hand and "no culture" in the other, and the designation of some groups as "model minorities" was intended to discipline "not-so-model minorities." We thus believe that a serious engagement with the heterogeneous and trans-national histories and relationships among communities such as African Americans, Euro-Americans, Asian Americans, Latinos, and Native Americans is necessary for contemporary scholarship of race in general, as well as of any particular community or identity. Even research projects that are not explicitly comparative must think through the various subtexts, shadows, and other categories through which or against which their particular foci was constructed. We believe that by interrogating comparative racial formations both across "minority" groups as well as between majority and minority groups, this seminar will strengthen a wide-array of interdisciplinary research that engage with questions of race, privilege, power, identity, intersectionality, citizenship, American culture and history, and diaspora. Within this context, the course will also explore how racial formations are inflected and must be understood as articulated through and mutually constituted by other forms of social difference such as class, ethnicity, citizenship, gender, and sexuality. This class is designed for those who have passed their prelim exams. Creating a supportive and rigorous environment in which graduate students learn to both expand their conceptual paradigms and assemble the building blocks of writing a dissertation is a central goal of the course. The design of the course is thus two-fold: it will combine both interdisciplinary readings and discussion in comparative race and ethnic studies and peer feedback workshops. A central theme of the class, then, will be to think through the process and methodology of writing, to develop our writing "both process and the product" in conversation with each other. First, by building an interdisciplinary peer writing community, the seminar will require students to present their research topics and questions in a manner that is understandable to those in other disciplines while learning to make explicit the possibilities and limitations of their own scholarship. Second, we will acknowledge and discuss explicitly the very particular process and form of writing a dissertation, and in doing so, we hope to create an enriched learning experience that seeks to demystify the steps of completing a PhD. We realize that the writing process can be painful, isolating, invigorating, frustrating, and inspiring. Through peer workshops and faculty feedback, the hope is that this class will establish an intellectually engaging environment and tackle the specificities of the dissertation format.

Asian Languages and Literatures

453 Folwell Hall

ALL 1001 Asian Film and Animation

3 credit(s);

Instructor: Marran,Christine L

Description: In this course, students will analyze Asian film and animation. This course introduces students to key issues in Asian cinema and animation, and pays attention to formal, cultural and ideological dimensions in the films of major filmmakers of China, Japan, Hong Kong, Taiwan, India, and Korea. Students will acquire critical tools to talk about film and animation while acquainting themselves with the historical and global movements within Asian film history. Readings on cinema and culture will provide the basis for cultural specificity in our analysis.

Style: 75% Lecture, 25% Discussion.

Grading: 60% quizzes, 40% written homework.

Exam Format: short answer and multiple choice

ALL 1905 Freshman Seminar: The Animal

A-F only, 3 credit(s), max credits 6; prereq freshman;

Instructor: Marran,Christine L

Description: The animal has recently come into focus as a subject of intellectually varied and stimulating scholarly attention in the humanities, making this in a sense, a time of the animal.

But it is also a time for the animal? a time of unprecedented extinctions and once unimaginable abuses (witness the recent growth of a factory-farming system likened by some to Nazi concentration camps). In this seminar we will follow this turn toward the animal, asking along the way some fundamental questions: What is an animal? What makes the difference between human and animal? What constitutes human ethical treatment of animals? How have philosophers engaged the animal and to what ends? And finally, how has the animal been understood differently over time? We will read (novels, newspapers, philosophy), watch films (Grizzly Man, Balthazar, The Eel, The Cow), and possibly take field trips to sites of human-animal interaction.

ALL 1905 Freshman Seminar: Buddhism in Literature and Film

A-F only, 3 credit(s), max credits 6; prereq freshman;

Instructor: Rouzer,Paul F

Description: How do Buddhist beliefs affect concepts of what literature is supposed to be and do? Can literature reflect Buddhist truths in a complex and non-didactic way? In addition to pre-modern Chinese and Japanese texts, we will look at work by modern Buddhist-influenced writers such as Miyazawa Kenji, Hermann Hesse, Jack Kerouac, and Gary Snyder. Films with explicit Buddhist themes from contemporary China, Japan, Korea, and the U.S. will also be discussed.

ALL 1910W Freshman Seminar: Gender in Japanese Literature and Theater

A-F only, 3 credit(s), max credits 6; prereq freshman; Meets CLE req of Writing Intensive;

Instructor: Isaka,Maki

Description: "Cross-gender" performance prevails in Japanese literature and theater. For example, while the all-male kabuki theater is well known for actors playing women's roles, the all-female Takarazuka revue is popular mainly because of its male-role actors. In the realm of literature, memoirs flourished due in large part to prolific ladies-in-waiting at royal court, and yet the one who initiated such a literary tradition was a male aristocrat who posed as a woman in the text. This course aims to contemplate gender in this cultural context. Importantly, our ultimate goal of this course lies not merely in basic information of each example above, let alone in a survey of Japanese culture. We will also gain an applicable working paradigm in which we can further explore the topic of gender. Accordingly, this course has two interlocking aims. First, it provides an understanding of gender performance in the context of Japanese literature and theater. Second, we will be engaged in a theoretical inquiry into "gender." For example, what does "cross-gender" performance mean? What differences and similarities are to be found in two concepts, "gender" and "gender impersonation"? This course also fulfills the WI requirement. Writing, revising, and class workshops about writing will be an integral part of the class. No previous knowledge of Japanese studies or gender studies is required. Audio-visual materials will be used whenever available and appropriate. Lib Ed req of WI.

ALL 1910W Freshman Seminar: What is Education?

A-F only, 3 credit(s), max credits 6; prereq freshman; Meets CLE req of Writing Intensive;

Instructor: Sawhney,Simona

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

ALL 3270 Service Learning in the Asian Community

2 credit(s), max credits 4; prereq instr consent ;

Instructor: Lee,Juavah

Description: This Service Learning course is designed to provide academic, social and cultural support to the new Hmong refugee students from Wat Tham Krabok. This course will give the new Hmong refugee students the opportunity to learn English and exchange cultural experience with University of Minnesota students. The main focus of this course is to promote literacy by focusing on English readings. While assisting with the English learning, university students and elementary students may also work on cultural exchange and/or other subject matters. Students that are interest in working with other Asian American

communities can also be arranged.

Style: 30% Lecture, 70% Discussion.

Grading: 40% reports/papers, 30% class participation, 30% other evaluation. volunteer

Exam Format: no exam

ALL 3433W Traditional Japanese Literature in Translation
3 credit(s); prereq No knowledge of Japanese necessary credit will not be granted if credit received for: Jpn 3162, ALL 3433; Meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: Isaka,Maki

Description: This course examines diverse traditions of Japanese premodern literature. We will begin with traditions in the classical age--the realm of princes, princesses, poets, and the like. We will also pay attention to worlds that not only constitute the foundation of Japanese literature in one way or another, but also continue furnishing images of Japan today: these include samurai, drama, and the floating world of townspeople. No less importantly, we will also investigate their literary and theoretical continuity, or discontinuity, which we may observe today. Toward this end, we will explore several themes in relation to premodern Japanese literature: aesthetics, philosophy, gender, and so forth. This course is open to anyone with an interest. No previous knowledge of Japanese 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. Lib Ed req of Ltr [Literature Core]; WI.

ALL 3456 Japanese Film
3 credit(s); prereq credit will not be granted if credit received for: Jpn 3166; Meets CLE req of Other Humanities Core;
Instructor: Anderson,Mark

Description: In this course we will survey the common themes, styles, and genres of Japanese cinema through work of both popular and classic directors (Kurosawa, Mizoguchi, and Ozu). Genres covered will include early melodrama, period films featuring samurai, and comedy. We will also screen at least two anime near the end of the course. Depictions of gender and class relations will be a particular and ongoing concern.

ALL 3672 Buddhism
3 credit(s); prereq credit will not be granted if credit already received for: SALC 3413/SALC 5413; Credit will not be granted if credit has been received for: ALL 5672; Meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core;
Instructor: Junghare,Indira Y
Description:

ALL 3900 Topics in Asian Literature: Voices from Ancient China
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Allen,Joseph R
Description: In this class we will explore the beginnings of the construction of Chinese culture in the songs, poems, and stories from two important literary classics: The Books of Songs and the Songs of the South. The focus will be on the "voices" that have been heard, and we still hear, from these early texts, which include love songs, prayers to the ancestors, soldier complaints, and a poet's fantasies. As background, we will read materials related to the history and cultures of the times: art, politics, material culture, and social life.

ALL 3900 Topics in Asian Literature: Writing Lives in China: Sima Qian to Yang Jiang
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Field,Jesse L
Description: Introduction to Chinese biography and autobiography, from China's earliest history to the present day. Focus on historical ways of being open to Chinese writers: historians and recluses, the position of women. How traditional themes persist, transformed, in modern times. Readings will be in English translation.

ALL 3920 Topics in Asian Culture: The Cultures of the Silk Road
3 credit(s), max credits 12, 3 completions allowed;
Instructor: Bashiri,Iraj
Description: The cultures of the Silk Road flourished in present-day Central Asia, Afghanistan, and Iran after the invasion of Alexander the Great. In time, the Road became the hub of activity, especially under the Sassanids and, later, under the Mongols. Even after the discovery of the sea routes made the movement of goods by caravans less profitable, Sufis and merchants continued to enhance the religious, social, political, and literary aspects of the region. Since the fall of the Soviet Union, there has been an attempt at reviving the Silk Road by creating an international network of scholarship about the Silk Road supported by the region's centers of learning and prominent international banks. The potential for the exchange of ideas across cultures for creating a better world is as promising a notion today as it was real in medieval times. The course is devised to acquaint students with the dynamics of the Silk Road, both in medieval and contemporary times. It equips them with the necessary information to understand, interpret, and accept ideas and actions that, on the surface, might appear alien and often unacceptable. The course emphasizes the contributions of the cultures of Central Asia, Afghanistan, and Iran to world civilization.
Style: 60% Lecture, 10% Film/Video, 10% Discussion, 20% Student Presentation.
Grading: 51% reports/papers, 36% quizzes, 3% attendance, 10% in-class presentation.
Exam Format: essay

ALL 3920 Topics in Asian Culture: Social Change in Modern China
3 credit(s), max credits 12, 3 completions allowed;
Instructor: Wang,Liping
Description: Student may contact the instructor or department for information.

ALL 3920 Topics in Asian Culture: Japanese Popular Music and Media History
3 credit(s), max credits 12, 3 completions allowed;
Instructor: Anderson,Mark
Description: Student may contact the instructor or department for information.

ALL 3920 Topics in Asian Culture: 60 Years of China on Film: 1949-2009
1 credit(s), max credits 12, 3 completions allowed;
Instructor: Chan,Ka Yee
Description: Student may contact the instructor or department for information.

ALL 3920 Topics in Asian Culture: Korean Diaspora: The Space and Place of Culture
3 credit(s), max credits 12, 3 completions allowed;
Instructor: Kim,Eun Joo
Description: This course will explore modern and contemporary Korean culture as produced by and consumed in Korean and Korean diasporic communities. Over the course of the semester, we will work towards a collective definition of Korean culture, guided by our readings of texts and other media. Among the central themes we will follow concern the sense of space, place, or geography that constitute the ways one understands or imagines culture. We will take an interdisciplinary approach, consulting history, literary texts, film, and popular culture. No previous knowledge of the Korean language is required.

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

presentations.

ALL 3990 Directed Study

1-3 credit(s), max credits 12, 4 completions allowed; prereq instr consent, dept consent, college consent; Instructor: Allen, Joseph R

Description: Individual reading and study with guidance of a faculty member of topics not covered in regular courses. Evaluation Standards and Workload: Variable, depending on course of study determined by the student and faculty. Generally students will be evaluated on written materials, exams, and presentations.

ALL 3990 Directed Study

1-3 credit(s), max credits 12, 4 completions allowed; prereq instr consent, dept consent, college consent; Instructor: Isaka, Maki

Description: Individual reading and study with guidance of a faculty member of topics not covered in regular courses. Evaluation Standards and Workload: Variable, depending on course of study determined by the student and faculty. Generally students will be evaluated on written materials, exams, and presentations.

ALL 3990 Directed Study

1-3 credit(s), max credits 12, 4 completions allowed; prereq instr consent, dept consent, college consent; Instructor: Marran, Christine L

Description: Individual reading and study with guidance of a faculty member of topics not covered in regular courses. Evaluation Standards and Workload: Variable, depending on course of study determined by the student and faculty. Generally students will be evaluated on written materials, exams, and presentations.

ALL 3990 Directed Study

1-3 credit(s), max credits 12, 4 completions allowed; prereq instr consent, dept consent, college consent; Instructor: Sawhney, Simona

Description: Individual reading and study with guidance of a faculty member of topics not covered in regular courses. Evaluation Standards and Workload: Variable, depending on course of study determined by the student and faculty. Generally students will be evaluated on written materials, exams, and presentations.

ALL 3990 Directed Study

1-3 credit(s), max credits 12, 4 completions allowed; prereq instr consent, dept consent, college consent; Instructor: Rouzer, Paul F

Description: Individual reading and study with guidance of a faculty member of topics not covered in regular courses. Evaluation Standards and Workload: Variable, depending on course of study determined by the student and faculty. Generally students will be evaluated on written materials, exams, and presentations.

ALL 3990 Directed Study

1-3 credit(s), max credits 12, 4 completions allowed; prereq instr consent, dept consent, college consent; Instructor: Sahota, G. S.

Description: Individual reading and study with guidance of a faculty member of topics not covered in regular courses. Evaluation Standards and Workload: Variable, depending on course of study determined by the student and faculty. Generally students will be evaluated on written materials, exams, and presentations.

ALL 5261 Work of Translation: Theory, Function, and Practice 3 credit(s); prereq [Native or near-native] speaker of English, advanced speaker/reader of at least one other [classical or vernacular] language;

Instructor: Allen, Joseph R

Description: This course is a review of the issues surrounding translation, including theories of representation, ideological work, as well as actual practice. The course is structured around a

series of readings and discussion of both historical and contemporary writing on translation; these readings and discussions. While most of the readings center on the theory and particulars of literary translation, students will be encouraged to explore other manifestations of translation as a historical, cultural or aesthetic issue. Along with those interested in languages and literature, students in disciplines such as creative writing, performance, and the plastic arts are also welcomed. You should be native or near-native speaker of English, as well as an advanced speaker/reader of at least one other language, either classical or vernacular.

ALL 5636 South Asian Women Writers

A-F only, 3 credit(s); prereq Grad student or advanced undergrad;

Instructor: Sawhney, Simona

Description: We will read the work of selected South Asian women writers in conjunction with (western) feminist texts in order to understand better the particular focus of different bodies of work. Thus the class will introduce students to some major themes in modern South Asian women's writing (fictional as well as polemical and theoretical texts) and to feminist thought, insistently read from the perspective of the postcolonial. While learning about concerns that come to the fore in South Asian women's writing (for example, debates regarding accounts of Sati, the position of minority women, questions of class and religiosity in the third world, struggles around sexual orientation and so on), our aim throughout will be to build a more nuanced and critical approach to gender itself, as it is articulated and acted in everyday life as well as in activist and theoretical discourse. Readings will include short stories, novels and essays. There are no prerequisites, but students should come to class with a willingness to read carefully, to engage with all texts in a generous manner and to participate in class discussion. Class assignments will include a short paper, a final 10-15 page paper, weekly postings on a web 'blackboard' and one in-class presentation. Texts will include work by Mahadevi Verma, Ismat Chughtai, Krishna Sobti, Indira Goswami, Mahasweta Devi, Ameena Meer, Helene Cixous, Luce Irigaray, Judith Butler, Anne McClintock, Rajeswari Sunder Rajan, Rey Chow, Flavia Agnes, Selvy Thiruchandran, Sara Suleri, Gayatri Reddy and Gayatri Spivak.

ALL 5672 Buddhism

3 credit(s); prereq credit will not be granted if credit already received for: SALC 3413/SALC 5413; Credit will not be granted if credit has been received for: ALL 3672; Meets CLE req of International Perspective Theme;

Instructor: Junghare, Indira Y

Description:

ALL 5920 Topics in Asian Culture: Style Shifting in Japanese 3 credit(s), max credits 12, 4 completions allowed; Instructor: Sztatrowski, Polly Ellen

Description: In this course we will investigate the use of style shifting in spoken and casual written Japanese discourse. Japanese differentiates linguistically between direct (da, -(r)u) vs. distal (desu, -masu) style, as well as plain (ikimasu) vs. polite style (humble polite: mairimasu, neutral polite: gozaimasu, and honorific polite: irassaimasu). It is an interesting language to study because contrary to Japanese textbooks and traditional grammars, the use of these forms is not set in a given context. Rather speakers have ways to avoid these forms (e.g., honorific avoidance strategies), and shift between styles to negotiate hierarchy and intimacy, bracket sections of talk (spoken paragraphs), create alignments, etc. Japanese is also cited as a language that has forms that index (point to) gender, for example, sentence final particles such as wa/zo, first-person pronouns such as atasi/boku 'I', etc. which were traditionally glossed as feminine/masculine. We will discuss changes in the use of these forms, in particular, how and why speakers shift in their use of forms traditionally associated with the opposite gender. Finally, we will examine how prosody (intonation and voice quality), nonlinguistic behavior and emoticons are used in style-shifting. The data for this course will come from spontaneous face-to-face and telephone conversations, manga

(comics), interviews, faculty meetings, university lectures, text/E-mail messages, letters, etc. in Japanese. **MAIN TEXT:** Jones, Kimberly & Tsuyoshi Ono, eds. 2008. *Style shifting in Japanese*. Amsterdam: John Benjamins. Coursepack consisting of research papers and readings from the following texts. Minami, Fujio. 1987. *Keigo (Polite language)*. Tokyo: Iwanami Shinsho. Mori, Junko & Amy Snyder Ohta, eds. 2008. *Japanese applied linguistics- Discourse and social perspectives*. New York: Continuum. Okamoto, Shigeko, and Janet S. Shibamoto, eds. 2004. *Japanese language, gender, and ideology*. Oxford: Oxford University Press. **PREREQUISITES:** LING 3001 or 3011 or 5001 (may be taken concurrently), and JPN 1012 (Beginning Japanese), OR permission of the instructor
Style: 40% Lecture, 30% Discussion, 30% Student Presentation.
Grading: 40% reports/papers, 30% written homework, 30% class participation.

ALL 5990 Directed Study

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

ALL 5990 Directed Study

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

ALL 5990 Directed Study

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

ALL 5990 Directed Study

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

ALL 5990 Directed Study

1-4 credit(s), max credits 16, 4 completions allowed; prereq instr consent, dept consent, college consent;
Instructor: Sawhney, Simona
Description: Individual reading and study with guidance of a faculty member of topics not covered in regular courses. Open to advanced students only. Evaluation Standards and Workload:

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

ALL 5990 Directed Study

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

ALL 8990 Directed Readings

A-F only, 1 credit(s), max credits 4, 4 completions allowed; prereq PhD student;
Instructor: Allen, Joseph R
Description: Student may contact the instructor or department for information.

ALL 8990 Directed Readings

A-F only, 1 credit(s), max credits 4, 4 completions allowed; prereq PhD student;
Instructor: Sawhney, Simona
Description: Student may contact the instructor or department for information.

Astronomy**356 Tate Laboratory of Physics****AST 1001 Exploring the Universe**

4 credit(s); Credit will not be granted if credit has been received for: AST 1011H; Meets CLE req of Environment Theme; meets CLE req of Physical Science/Lab Core;
Instructor: Skillman, Evan D
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: Multiple choice, short answer, 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 Theme; meets CLE req of Physical Science/Lab Core;
Instructor: Rudnick, Lawrence
Description: This course is a scientific exploration of the human place in the universe. We study the origin and history of the Universe and the formation of the Earth and the solar system. We compare the Earth's properties with those of the other planets and explore how the heavens have influenced human thought and action. This course includes study of the properties

of light and matter and the tools astronomers use to measure radiation from celestial sources. The course also covers exciting contemporary topics such as black holes, the expansion of the universe and the search for extraterrestrial life. Although largely descriptive, the course will occasionally require the use of junior-high level mathematics. This course is intended for non-science majors; no science background is necessary. IT students should take AST 1011H.

Style: 45% Lecture, 15% Discussion, 40% Laboratory. Discussin time is during lecture.

Grading: 27% mid exam, 25% final exam, 14% special projects, 10% class participation, 24% laboratory evaluation. No lab component for AST1005.

Exam Format: Multiple choice plus 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

Theme; meets CLE req of Physical Science/Lab Core;

Instructor: Jones,Terry J

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. 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, short answer, essay.

AST 1005 Descriptive Astronomy

3 credit(s); prereq non-science major; Credit will not be granted if credit has been received for: AST 1001;

Instructor: Rudnick,Lawrence

Description: This course is a scientific exploration of the human place in the universe. We study the origin and history of the Universe and the formation of the Earth and the solar system. We compare the Earth's properties with those of the other planets and explore how the heavens have influenced human thought and action. This course includes study of the properties of light and matter and the tools astronomers use to measure radiation from celestial sources. The course also covers exciting contemporary topics such as black holes, the expansion of the universe and the search for extraterrestrial life. Although largely descriptive, the course will occasionally require the use of junior-high level mathematics. This course is intended for non-science majors; no science background is necessary. IT students should take AST 1011H.

Style: 45% Lecture, 15% Discussion, 40% Laboratory. Discussin time is during lecture.

Grading: 27% mid exam, 25% final exam, 14% special projects, 10% class participation, 24% laboratory evaluation. No lab component for AST1005.

Exam Format: Multiple choice plus short answer.

AST 1011H Exploring the Universe, Honors

4 credit(s); prereq 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

Theme; meets CLE req of Physical Science/Lab Core;

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. Lectures are three days per week; a fourth day each week of two hours is spent in small groups working on a lab project.

Style: 50% Lecture, 40% Laboratory. 10% closed circuit TV

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

Exam Format: Multiple choice and a combination of essay and/or short answer.

AST 2001 Introduction to Astrophysics

4 credit(s); prereq [One yr calculus, PHYS 1302] or instr consent ;

Instructor: Gehrz,Robert Douglas

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

AST 2990 Directed Studies

1-5 credit(s), max credits 5, 1 completion allowed; prereq 1 yr calculus, Phys 1302, instr consent;

Instructor: STAFF

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

AST 4001 Astrophysics I

A-F only, 4 credit(s); prereq 2001, Phys 2601;

Instructor: Davidson,Kris

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

AST 4299H Senior Honors Astrophysics Research Seminar

1 credit(s), max credits 2, 1 completion allowed; prereq upper div honors student in IT or CLA, inst consent;

Instructor: STAFF

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

AST 4990 Directed Studies

1-5 credit(s), max credits 5, 1 completion allowed; prereq 2001, instr consent;

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; prereq instr consent; Meets CLE req of Writing Intensive;

Instructor: STAFF

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

AST 8051 Galactic Astronomy

4 credit(s); prereq instr consent;

Instructor: Humphreys,Roberta M

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

AST 8200 Astrophysics Seminar

1-3 credit(s), max credits 3, 1 completion allowed; prereq instr consent;

Instructor: Humphreys,Roberta M

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

Biochemistry

140 Gortner Lab of Biochemistry

BIOC 1010 Human Health and Disease**A-F only, 3 credit(s);****Instructor:** Siliciano,Paul G

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

http://www1.umn.edu/regents/policies/academic/Student_Conduct_Code.htm

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

BIOC 2011 Biochemistry for the Agricultural and Health Sciences**3 credit(s); prereq Chem 1011, Biol 1009; not for biology majors;****Instructor:** Armitage,Ian MacLeod

Description: Survey of organic chemistry/biochemistry outlining structure/metabolism of biomolecules, metabolic regulation, and principles of molecular biology.

Style: 100% Lecture.

Grading: There are 4 exams and each exam is 25% of grade, totaling 100%

BIOC 3021 Biochemistry**3 credit(s); prereq [[BIOL 2003 or BiOL 1002 or BIOL 1009], CHEM 2301], or instr consent ; Credit will not be granted if credit has been received for: BIOC 6021;****Instructor:** Laporte,David C

Description: This course is a one-semester survey of the fundamentals of biochemistry and is part of the core curriculum required for a Biology major in the College of Biological Sciences. The objective of this course is to provide a foundation for understanding the chemistry of biological systems, i.e., to prepare the student to comprehend the composition of living cells and their physiological processes at the molecular level. Lectures consider the structure and function of proteins, nucleic acids, lipids, and carbohydrates; principles of acid-base

equilibria, enzyme catalysis and bioenergetics; fundamental metabolic pathways, and the chemical nature of genetic information storage and expression. The prerequisite reflects the strong emphasis on facility with organic chemistry. This course requires regular study effort on the part of the student. Students who plan to major in biochemistry should enroll in the alternate two-semester series, BioC 4331 and BioC 4332. Text: "Essential Biochemistry" by Pratt & Cornely

Style: 100% Lecture.**Grading:** 75% mid exam, 25% final exam.

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

BIOC 3021 Biochemistry**3 credit(s); prereq [[BIOL 2003 or BiOL 1002 or BIOL 1009], CHEM 2301], or instr consent ; Credit will not be granted if credit has been received for: BIOC 6021;****Instructor:** Roon,Robert J

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

Style: 100% Lecture.**Grading:** 75% mid exam, 25% final exam.

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

BIOC 3021 Biochemistry**3 credit(s); prereq [[BIOL 2003 or BiOL 1002 or BIOL 1009], CHEM 2301], or instr consent ; Credit will not be granted if credit has been received for: BIOC 6021;****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. Text: "Essential Biochemistry" by Pratt & Cornely

Style: 100% Lecture.**Grading:** 75% mid exam, 25% final exam.

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

BIOC 3960 Research Topics in Biochemistry**S-N only, 1 credit(s), max credits 2; prereq 3021 or concurrent enrollment in 3021 or 4331 concurrent enrollment in 4331 or instructor consent;****Instructor:** Laporte,David C

Description: The goal of Research Topics in Biochemistry is to expose students to a wide variety of cutting-edge research projects. The course will begin with a two-lecture introduction covering how to read scientific papers and the basic concepts of

experimental design and analysis. Faculty from the BMBB Department will then give a series of presentations on cutting edge research. Each faculty member will give two presentations. The first will be a broad overview of a research area and the second will focus on a specific paper, dissecting all or part of it in detail.

Style: 50% Lecture, 25% Discussion, 25% Small Group Activities.

Grading: 50% written homework, 50% attendance.

Exam Format: No Exam

BIOC 4025 Laboratory in Biochemistry

2 credit(s); prereq 3021 or 4331 or equiv;

Instructor: Lange, Alex John

Description: Theory and practice of modern biochemical techniques including buffers and pH, protein (lactate dehydrogenase) purification, protein electrophoresis, enzyme characterization using kinetics and immunochemical methods, recombinant DNA techniques.

Style: 40% Lecture, 60% Laboratory.

Grading: 33% mid exam, 34% final exam, 33% quizzes.

Exam Format: short answer and problems

BIOC 4331 Biochemistry I: Structure, Catalysis, and Metabolism in Biological Systems

4 credit(s); prereq [[BIOL 1002 or BIOL 1009 or BIOL 2003 or equiv], [CHEM 2302 or equiv]] or instr consent ;

Instructor: Murphy, Sharon Elizabeth

Description: Biochemistry I: structure, catalysis, metabolism in biological systems - The first 12 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 14 lectures deal with enzyme kinetics and mechanisms and binding interactions. Protein purification and analysis are also discussed. The next 10 lectures discuss carbohydrates, lipid and membrane structures, transport processes. The final 16 lectures discuss metabolic pathways including, glycolysis, glycogen synthesis, the citric acid cycle, oxidative phosphorylation, amino acid and nitrogen metabolism, and lipid synthesis and metabolism. Thermodynamic considerations are emphasized for all pathways. The course covers about 50% of the material in the textbook, "Lehninger Principles of Biochemistry" fifth edition by Nelson and Cox. Most students in the class are expected to be Biochemistry majors. Web site at WebCT.

Style: 75% Lecture, 25% Discussion.

Grading: 30% mid exam, 30% final exam, 30% 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); prereq 4331 or instr consent;

Instructor: Towle, Howard

Description: BioC 4332 covers fundamental molecular biology and signal transduction. The course begins with the molecules and processes by which cells store, replicate, repair and express genetic information in the form of DNA, RNA and proteins. The latter part of the course describes regulatory processes that involve control of gene expression and mechanisms of signal transduction. The emphasis in the course is on the biochemical basis of gene function and biological regulatory processes. This course is designed for upper division undergraduates in the biological sciences, as well as beginning graduate students in other biological programs. Textbook: Molecular Biology of the Cell by Albert's et al., Garland Science, Fourth Edition (2002)

Style: 90% Lecture, 10% Discussion.

Grading: 80% mid exam, 20% final exam.

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

BIOC 4521 Introduction to Physical Biochemistry

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

recommended;

Instructor: Mayo, Kevin Henry

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

Style: 100% Lecture.

Grading: There are four exams, each worth 20%. In addition, 20% of the grade is determined by homeworks and class participation, including attendance.

Exam Format: problem solving

BIOC 4793W Directed Studies: Writing Intensive

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

Instructor: STAFF

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

BIOC 4950 Computer Simulation and Data Analysis in Biochemistry

A-F only, 3 credit(s); prereq 4331, 4332, MATH 1272;

Instructor: Bloomfield, Victor A

Description: This course -- taught entirely on-line -- provides an introduction to two important aspects of modern biochemistry, molecular biology, and biophysics: computer simulation and data analysis. The availability of very capable but inexpensive personal computers and software makes it possible to do such work at a much higher level, but in a much easier way, than ever before. In this course you will learn to use readily available computer tools to formulate quantitative models and analyze experiments in a way that measures up to the standards of biology in the 21st century. In particular, you will learn how to use the free, open source software program R in a variety of biological applications. The course is attended for advanced undergraduates and beginning graduate students, who have had basic instruction in biochemistry and calculus-level mathematics. Specific topics to be covered include R as a tool for numerical, graphical, and programming work; equilibrium and kinetics of biochemical reactions; regulation of metabolic and transcriptional networks; probability and sequence analysis; and analysis of proteomic and microarray data. Since this is a completely online course, efforts will be made to maintain an active class listserv, so that students and instructor can discuss questions and issues related to the course. Prof. Bloomfield's departmental web site is at <http://cbs.umn.edu/BMBB/faculty/Bloomfield.V.A.shtml>

Style: 100% Web Based. There will be a listserv for discussion of course-related questions and issues.

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

Exam Format: Exams and problem sets to be submitted online.

BIOC 4993 Directed Studies

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

Instructor: STAFF

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

BIOC 4994 Directed Research

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

Instructor: STAFF

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

BIOC 5001 Biochemistry, Molecular and Cellular Biology
5 credit(s); prereq undergrad course in biochemistry, instr consent; Credit will not be granted if credit has been received for: BIOC 6001;

Instructor: Sanders, Michel Marie

Description: This course meets concomitantly with first year medical students and is structured primarily to their needs and schedule. The curricular objective of the course is to educate students about the contemporary, integrated understanding of how a cell functions and communicates. The central core of the course is 61 lectures, which cover eight broad topics: Proteins and Enzymes, Metabolism, Molecular Biology, Cell Biology, Cell Signaling, Cell Division, and Development. Lectures are supplemented by 2 small group discussion sections and by 5 optional clinical correlations with patients. Most lectures are given at the 9:05 and/or 10:10 hour, 5 days a week but there are some exceptions. The course begins in October so is ~9.5 weeks long.

Style: 97% Lecture, 3% Discussion.

Grading: 100% other evaluation. Grade: Based entirely on exams

Exam Format: 3 non-cumulative multiple choice exams

BIOC 5361 Microbial Genomics and Bioinformatics
3 credit(s); prereq College-level courses in [organic chemistry, biochemistry, microbiology];

Instructor: Wackett, Lawrence Philip

Description: This course is an introduction to genomics with an emphasis on developments in microbial genomics. The topics to be covered are sequencing methodologies, sequence analysis, genomics databases, genome mapping, prokaryotic horizontal gene transfer, genomics in biotechnology, and intellectual property issues in genomics.

BIOC 5527 Introduction to Modern Structural Biology
4 credit(s); prereq [intro biochemistry, intro physics] or physical chemistry or instr consent;

Instructor: Ohlendorf, Douglas Henry

Description: This class is an introduction to structural biology with descriptions of theories and methods used to obtain conformational data and dynamics of biomacromolecules such as soluble and membrane bound proteins, DNA, RNA, and their complexes at the atomic resolution. A particular emphasis will be put on how structures and dynamics are correlated to biological function. The class includes a description of modern multidimensional NMR, X-ray, and Mass Spectrometry techniques for structural analysis.

BIOC 5531 Macromolecular Crystallography I: Fundamentals and Techniques

S-N only, 1 credit(s); prereq [[One organic chemistry or biochemistry course], [two calculus or college physics courses]] or instr approval;

Instructor: Ohlendorf, Douglas Henry

Description: This discussion/seminar course is the first of a two-semester sequence on the topic of Macromolecular Crystallography, the technique by which the complete three-dimensional structure of molecules can be determined. Both courses can only be taken S/N, with grading based primarily upon participation. Where appropriate, classes go into the laboratory to examine the equipment and to observe experiments in progress. The main text for these courses is "X-ray Structure Determination: A Practical Guide" by G.H. Stout and L.H. Jensen. Minimum prerequisite is one year of chemistry or biology and mathematics through vector algebra and calculus.

Style: 60% Lecture, 40% Discussion. Homework and working examples on board.

Grading: 100% laboratory evaluation.

Exam Format: No exam

BIOC 6011 Biochemistry for Dental Students
A-F only, 4 credit(s); prereq Dental student;

Instructor: Bielinsky, Anja K

Description: COURSE OBJECTIVES To understand the molecular components of biochemistry Students should understand the building blocks (amino acids, lipids, carbohydrates, and nucleotides) and their assembly into proteins, membranes, RNA and DNA. The shape of a protein determines its function, and variables altering protein structure should be remembered and understood. To understand energy concepts in biochemistry Energy in biochemistry can exist as a pH gradient, an electrochemical gradient, a reduced organic molecule or a molecule with high group transfer potential. Students should recognize how these different types of energy can be formed, used and interconverted. To understand catalysis in biochemistry Catalysis makes reactions occur more quickly, but does not change whether they are favorable or not. Catalysis involves enzymes and often cofactor, which are usually derived from vitamins. Catalysis is regulated using several strategies. To understand how energy is generated in biochemistry Students should understand how biochemistry can use glucose to generate energy both with and without oxygen. Students should recognize that anaerobic fermentation of glucose to lactic acid is the source of acid that causes tooth decay. Students should know the pathways of glycolysis, citric acid cycle and oxidative phosphorylation. To understand how energy can be stored in biochemistry Students should understand how energy can be stored as sugars or fats. Students should know the pathways of gluconeogenesis, fatty acid oxidation and synthesis. To understand basic concepts of molecular biology Students should know the structure and composition of DNA and RNA. They should be familiar with DNA metabolism (replication, repair, recombination), the genetic code, basic concepts of gene expression and translational control. Students should also understand how defects in DNA metabolism contribute to cancer. To understand the modern ramifications of molecular biology and recombinant DNA technology as they apply to human health and dentistry in particular Students should be familiar with basic cloning techniques and new technologies, such as genetic profiling that will likely be part of daily practice in the foreseeable future. They will also be exposed to the basic principles of stem cell technology. To understand basic concepts of signal transduction Students should understand how external stimuli are translated into molecular action. Students will be exposed to examples that are relevant to human health and their profession (e.g., signal transduction in B- and T-cell activation).

Style: 80% Lecture, 15% Discussion, 5% Guest Speakers.

BIOC 6021 Biochemistry

3 credit(s); prereq general biology, organic chemistry, instr consent ; intended for MBS students; Credit will not be granted if credit has been received for: BIOC 3021;

Instructor: Laporte, David C

Description: This course is a one-semester survey of the fundamentals of biochemistry and is part of the core curriculum required for a Biology major in the College of Biological Sciences. The objective of this course is to provide a foundation for understanding the chemistry of biological systems, i.e., to prepare the student to comprehend the composition of living cells and their physiological processes at the molecular level. Lectures consider the structure and function of proteins, nucleic acids, lipids, and carbohydrates; principles of acid-base equilibria, enzyme catalysis and bioenergetics; fundamental metabolic pathways, and the chemical nature of genetic information storage and expression. The prerequisite reflects the strong emphasis on facility with organic chemistry. This course requires regular study effort on the part of the student. Students who plan to major in biochemistry should enroll in the alternate two-semester series, BioC 4331 and BioC 4332. Text: "Principles of Biochemistry with a Human Focus", Garrett and Grisham, Harcourt College Publishers, 2001.

Style: 100% Lecture.

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

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

BIOC 6021 Biochemistry
3 credit(s); prereq general biology, organic chemistry, instr

consent ; intended for MBS students; Credit will not be granted if credit has been received for: BIOC 3021;

Instructor: Roon,Robert J

Description: This course is a one-semester survey of the fundamentals of biochemistry and is part of the core curriculum required for a Biology major in the College of Biological Sciences. The objective of this course is to provide a foundation for understanding the chemistry of biological systems, i.e., to prepare the student to comprehend the composition of living cells and their physiological processes at the molecular level. Lectures consider the structure and function of proteins, nucleic acids, lipids, and carbohydrates; principles of acid-base equilibria, enzyme catalysis and bioenergetics; fundamental metabolic pathways, and the chemical nature of genetic information storage and expression. The prerequisite reflects the strong emphasis on facility with organic chemistry. This course requires regular study effort on the part of the student. Students who plan to major in biochemistry should enroll in the alternate two-semester series, BioC 4331 and BioC 4332. Text: "Principles of Biochemistry with a Human Focus", Garrett and Grisham, Harcourt College Publishers, 2001.

Style: 100% Lecture.

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

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

BIOC 6021 Biochemistry

3 credit(s); prereq general biology, organic chemistry, instr consent ; intended for MBS students; Credit will not be granted if credit has been received for: BIOC 3021;

Instructor: 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. Text: "Principles of Biochemistry with a Human Focus", Garrett and Grisham, Harcourt College Publishers, 2001.

Style: 100% Lecture.

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

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

BIOC 8001 Biochemistry: Structure, Catalysis, and Metabolism

3 credit(s); prereq BMBB or MCDB&G grad student or instr consent;

Instructor: Ohlendorf,Douglas Henry

Description: BioC 8001 covers kinetics, structure, catalysis, metabolism and bioenergetics. The first 10 lecture are given by Dr. Ohlendorf and focus on structure and latest analytical techniques. Dr. Ohlendorf's next 9 lectures discuss binding and kinetics. The next 11 lectures are given by Dr. Nelsestuen and cover biocatalysis and metabolic interconversions in biology. Dr. Nelsestuen's next 8 lectures complete the course with material on bioenergetics of metabolism and regulation at the pathway and cellular levels.

BIOC 8002 Molecular Biology and Regulation of Biological Processes

3 credit(s); prereq BMBB or MCDB&G grad student or instr consent;

Instructor: Harris,Reuben

Description: A wide range of classical to current cutting-edge topics in molecular biology are discussed. Topics include all aspects of DNA, RNA and protein biology ranging from

fundamentals such as DNA replication, repair & recombination, RNA transcription, editing & regulation, and protein translation & modification to new technologies such as deep-sequencing, micro-RNA and prions. The course is based mostly on primary literature with supplement from textbook materials and other sources.

BIOC 8084 Research and Literature Reports

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

Instructor: Hendrickson,Eric A

Description: Student may contact DGS for information. This "course" is actually participation in the graduate student seminar series. Enrolled students are expected to attend the Tuesday 11:20>12:20 graduate student seminars.

BIOC 8084 Research and Literature Reports

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

Instructor: Seelig,Burckhard

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; prereq grad BMBB major or DGS consent;

Instructor: Lipscomb,John D

Description: Student may contact DGS for information

BIOC 8184 Graduate Seminar

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

Instructor: Das,Anath

Description: Student may contact DGS for information

BIOC 8213 Selected Topics in Molecular Biology

4 credit(s); prereq 8002 or instr consent; Credit will not be granted if credit has been received for: GCD 8213;

Instructor: Hendrickson,Eric A

Description: This course is officially called topics in Molecular Biology. This is deceptive, however. In fact, this is a writing course. This course is designed for 1st year graduate students. Extensive writing assignments will be assigned to help the student learn how to write research articles, grant applications and preliminary written proposals. Learning anything about topics in Molecular Biology is considered a distant second in terms of importance.

Bioethics, Center for N-504 Boynton Health Service

BTHX 5010 Bioethics Proseminar

A-F only, 2 credit(s); prereq Bioethics grad student or grad minor;

Instructor: DeBruin PhD,Debra Ann

Description: An introduction to topics in bioethics, with enrollment limited to Bioethics graduate students, including graduate minors. Course objectives: The Proseminar serves to: (1) familiarize Bioethics graduate students with the wide range of topics that they may wish to pursue in their scholarship and eventual careers; (2) showcase faculty affiliated with the program in order to acquaint students with their research and assist students in locating potential mentors and advisors; and (3) give Bioethics graduate students a class cohort, to foster community among them.

BTHX 5100 Introduction to Clinical Ethics

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

Instructor: Marshall,Mary Faith

Description: Clinical ethics concerns the identification, analysis, and resolution of ethical problems that arise in planning for the care of patients. This course deals with the ethical problems that occur frequently in the clinical setting. The course emphasizes

the ethical responsibilities of multidisciplinary health care professionals in planning for the care of their patients, and the skills and knowledge needed by ethics consultants in assisting those professionals to resolve ethical problems. The course is practical, teaching knowledge and skills such as obtaining informed consent, assessing decisional capacity, forgoing life-sustaining treatment, and dealing with refusals of treatment by patients and health care professionals.

BTHX 5300 Foundations of Bioethics

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

Instructor: Elliott Jr,Bruce Carleton

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

BTHX 5900 Independent Study in Bioethics

1-4 credit(s), max credits 8; prereq instr consent ;

Instructor: Miles MD,Steven Haverstock

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

BTHX 5900 Independent Study in Bioethics

1-4 credit(s), max credits 8; prereq instr consent ;

Instructor: Bartels,Dianne Mary

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

BTHX 5900 Independent Study in Bioethics

1-4 credit(s), max credits 8; prereq instr consent ;

Instructor: Song,John Young

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

BTHX 5900 Independent Study in Bioethics

1-4 credit(s), max credits 8; prereq instr consent ;

Instructor: Elliott Jr,Bruce Carleton

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

BTHX 5900 Independent Study in Bioethics

1-4 credit(s), max credits 8; prereq instr consent ;

Instructor: Kahn,Jeffrey Paul

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

BTHX 5900 Independent Study in Bioethics

1-4 credit(s), max credits 8; prereq instr consent ;

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; prereq instr consent ;

Instructor: DeBruin PhD,Debra Ann

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

BTHX 5900 Independent Study in Bioethics

1-4 credit(s), max credits 8; prereq instr consent ;

Instructor: Liaschenko,Joan

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

BTHX 5900 Independent Study in Bioethics

1-4 credit(s), max credits 8; prereq instr consent ;

Instructor: Marshall,Mary Faith

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

BTHX 5900 Independent Study in Bioethics

1-4 credit(s), max credits 8; prereq instr consent ;

Instructor: Turner,Leigh

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

BTHX 8000 Advanced Topics in Bioethics: Adv Topics in Science, Technology, and Env Policy

1-4 credit(s), max credits 8; prereq 4xxx or 5xxx ethics course or instr consent ;

Instructor: Kuzma,Jennifer

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

BTHX 8114 Ethical and legal Issues in Genetic Counseling

A-F only, 3 credit(s); prereq [MCDG MS, genetic counseling specialization] or instr consent ;

Instructor: Bartels,Dianne Mary

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

BTHX 8900 Advanced Independent Study in Bioethics

1-4 credit(s), max credits 8; prereq instr consent ;

Instructor: Miles MD,Steven Haverstock

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

BTHX 8900 Advanced Independent Study in Bioethics

1-4 credit(s), max credits 8; prereq instr consent ;

Instructor: Bartels,Dianne Mary

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

BTHX 8900 Advanced Independent Study in Bioethics

1-4 credit(s), max credits 8; prereq instr consent ;

Instructor: Song,John Young

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

BTHX 8900 Advanced Independent Study in Bioethics

1-4 credit(s), max credits 8; prereq instr consent ;

Instructor: Elliott Jr,Bruce Carleton

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

BTHX 8900 Advanced Independent Study in Bioethics

1-4 credit(s), max credits 8; prereq instr consent ;

Instructor: Kahn,Jeffrey Paul

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

BTHX 8900 Advanced Independent Study in Bioethics

1-4 credit(s), max credits 8; prereq instr consent ;

Instructor: Wolf,Susan M

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

BTHX 8900 Advanced Independent Study in Bioethics

1-4 credit(s), max credits 8; prereq instr consent ;

Instructor: DeBruin PhD,Debra Ann

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

BTHX 8900 Advanced Independent Study in Bioethics

1-4 credit(s), max credits 8; prereq instr consent ;

Instructor: Liaschenko,Joan

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

BTHX 8900 Advanced Independent Study in Bioethics

1-4 credit(s), max credits 8; prereq instr consent ;

Instructor: Marshall,Mary Faith

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

BTHX 8900 Advanced Independent Study in Bioethics

1-4 credit(s), max credits 8; prereq instr consent ;

Instructor: Turner,Leigh

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

Biology

123 Snyder Hall

BIOL 1001 Introductory Biology I: Evolutionary and Ecological Perspectives

4 credit(s); Credit will not be granted if credit has been received for: BIOL 1001H; Meets CLE req of Biological Sciences/Lab Core; meets CLE req of Environment Theme; Instructor: STAFF

Description: This course designed specifically for non-CBS majors, covers general evolutionary and ecological principles, emphasizing biological diversity from genetic variation to the diversity of species and ecosystems. Topics include scientific inquiry, history of evolutionary thought, principles of genetics, the nature of variation, ecology of populations, behavioral ecology, human evolution, and genetic, evolutionary and ecological perspectives on issues concerning human diversity, human population growth, health, agriculture and conservation. Laboratory is in a 2-hour block, which is designed to involve students in investigation, problem solving, and discovery.

Style: 65% Lecture, 35% Laboratory.

Grading: 33% mid exam, 25% final exam, 15% reports/papers, 16% quizzes, 4% in-class presentation, 7% problem solving, homework

Exam Format: multiple choice lecture exams

BIOL 1001H Introductory Biology I: Evolutionary and Ecological Perspectives

4 credit(s); prereq Honors; Credit will not be granted if credit has been received for: BIOL 1001; Meets CLE req of Biological Sciences/Lab Core; meets CLE req of Environment Theme;

Instructor: Packer, Craig

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/Lab Core;

Instructor: Cotner, Sehoya H

Description: This course is intended for non-biology majors who need to satisfy CLE requirements for a biology course with lab. This course is designed to address general biological principles from the standpoint of the evolution of sexual reproduction and the genetics and biology of sex determination, as well as an understanding of human reproduction, development, and disease transmission. General biological principles include scientific inquiry, history of evolutionary thought, principles of genetics, the nature of variation, behavioral ecology, human evolution and human population growth. Specific topics will address questions including: Why have sex at all? Why are there only two sexes? What conditions make populations more likely to reproduce sexually? What factors favor monogamy? Polygamy? Promiscuity? What can sex teach us about human behavior? Class meetings will include lecture, whole-group discussion, and various opportunities for active learning such as individual and group problem solving and discussion of case studies. Laboratory is in a two-hour block, designed to involve students in investigation, problem solving, and discovery. To the extent possible, the sex theme of this section will be incorporated in laboratory exercises.

Style: 65% Lecture, 35% Laboratory.

Grading: 33% mid exam, 25% final exam, 15% reports/papers, 16% quizzes, 4% in-class presentation, 7% problem solving.

Exam Format: multiple choice lecture exams

BIOL 1009 General Biology

4 credit(s); prereq high school chemistry; 1 term college chemistry recommended; Credit will not be granted if credit has been received for: BIOL 1009H; Meets CLE req of Biological Sciences/Lab Core;

Instructor: STAFF

Description: This course is designed for non-CBS majors seeking a broad survey of biology. An introduction to the major concepts and principles of modern biology. Topics include: structure and function of biological molecules, cell structure and function, energy recruitment and utilization, cellular reproduction, flow of genetic information through organisms and populations, principles of inheritance, evolution and ecology. Includes lab. Course satisfies the CLE lab distribution requirement in biology. Tutorial aid is available during certain hours each day.

Style: 65% Lecture, 35% Laboratory.

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

Exam Format: multiple choice lecture exams

BIOL 1009 General Biology

4 credit(s); prereq high school chemistry; 1 term college chemistry recommended; Credit will not be granted if credit has been received for: BIOL 1009H; Meets CLE req of Biological Sciences/Lab Core;

Instructor: Brooker, Robert James

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

Style: 100% Web Based.

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

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

BIOL 1020 Biology Colloquium

S-N only, 1 credit(s), max credits 2;**Instructor:** Hanna, Kathryn L

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

Style: 10% Discussion, 50% Field Trips, 40% Guest Speakers. Class time is split between large group sessions and tours to science facilities.

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

BIOL 1093 Biology Colloquium: Directed Study**S-N only, 1 credit(s); prereq 1020 and concurrent enrollment 1020;****Instructor:** Hanna, Kathryn L

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

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

BIOL 1101W Heredity and Human Society**3 credit(s); prereq no cr if taken after 4003 or GCB 3022; Meets CLE req of Citizenship/Publ Ethics Theme; 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 citizenship/public ethics requirements 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 1301 Becoming a Reflective Leader**S-N only, 1 credit(s); prereq Dean's Scholar;****Instructor:** Kuecker Grotjohn, Jessica

Description: This course is designed for Deans? Scholars students to learn about leadership theory and concepts, explore their personal views on leadership, and understand the value of self-reflection in their personal development. The theory-related content and teaching methods employed in this course provide

students with a framework to increase their understanding of leadership and examine how they can be more intentional about leadership development.

BIOL 1301 Becoming a Reflective Leader**S-N only, 1 credit(s); prereq Dean's Scholar;****Instructor:** Johnson, Sara N

Description: This course is designed for Deans? Scholars students to learn about leadership theory and concepts, explore their personal views on leadership, and understand the value of self-reflection in their personal development. The theory-related content and teaching methods employed in this course provide students with a framework to increase their understanding of leadership and examine how they can be more intentional about leadership development.

BIOL 1805 Nature of Life: Introducing New Students to the Biological Sciences**S-N only, 2 credit(s); prereq Fr in College of Biological Sciences;****Instructor:** Wright, Robin

Description: Content modules focus on topics ranging from biological molecules to ecosystems. Topics will include ethical behavior in the sciences, opportunities for team building and development of a sense of community. There will be a reflective writing assignment. Held at Itasca Biological Station and Laboratories. Transportation, board, and lodging fee - \$185.00. Required of all entering CBS Freshmen.

Style: 25% Lecture, 25% Discussion, 25% Laboratory.

Grading: 50% class participation, 50% other evaluation. Reflective papers

BIOL 1905 Freshman Seminar for the Biological Sciences:**Energy - Issues and Options****A-F only, 1 credit(s), max credits 6; prereq freshman;****Instructor:** Peifer, Richard W

Description: There are no doubts many challenges face humankind in the search for abundant sources of energy to replace our dependence on fossil fuels to power our industrial processes, heat our homes, propel our modes of transportation and feed a growing human population. The problem is global not just local. Where do we look for solutions? Is nuclear power the answer? Can solar, wind and geothermal provide enough energy to meet our needs? Should conservation be part of the solution? Are biofuels the ultimate answer? Will the new solutions create new problems? Can we afford to implement and deploy the solutions that are developed? Will there be negative consequences to the global environment? Students will conduct library research as they explore these issues and gather to discuss the possible options available to meet our global energy needs.

BIOL 1905 Freshman Seminar for the Biological Sciences:**BioArt****A-F only, 3 credit(s), max credits 6; prereq freshman;****Instructor:** Olszewski, Neil E

Description: BioArt Victimless Leather alive at MOMA, an artist designed DIY Digestive Table for your kitchen, the One Tree series of genetically identical trees living in San Francisco, and artists ?cultivating? consciousness with a Botanical Gameboy each hint at the range of contemporary artwork by artists whose creative work integrally links art and biology. Exploring topics from ecology to molecular biology, artists are accessing, critiquing, and demystifying biotechnology. We will examine the collaborative process between scientist, artist, and the public, the questions that artists and scientists pose, the poetic and political implications of this art, the response of scientists to this portrayal, and ethical issues associated with the creation of this art. These issues will be explored through engagement with living things, reading and discussions that develop critical thinking, as well as laboratory and studio sessions that lead to the creation of BioArt. To see examples of the range of BioArt go to: <http://www.tca.uwa.edu.au/> www.ekac.org/gfpbunny.html <http://hypernatural.com/digestive.html> <http://www.futurefarmers.com/survey/gameboy.php>

BIOL 1905 Freshman Seminar for the Biological Sciences: Biology in Our Lives**A-F only, 1 credit(s), max credits 6; prereq freshman;****Instructor:** Kipper,Catherina J

Description: Everyday we run across biology in our lives and in the news. We'll look at biology using sources like the New York Times or CNN. What is meant by a bioterrorism threat? How is biological evidence influencing a trial outcome? How is pollution affecting different cultures? What's happening to the arctic environment? How does penicillin work? Students will help determine the topics we discuss. Careers related to the topics will also be introduced. The class will also serve as an orientation to the University environment and discuss topics such as academic survival skills.

BIOL 1905 Freshman Seminar for the Biological Sciences:**Darwin is Everywhere: Appl & Implications of Evol****A-F only, 1 credit(s), max credits 6; prereq freshman;****Instructor:** Decker,Mark David

Description: Darwin is everywhere: ?Nothing in biology makes sense except in the light of evolution.? Theodosius Dobzhansky Charles Darwin has been dead for well over a hundred years and his most influential book, On the Origin of Species, was first published 146 years ago. Wow, evolutionary biology is really old! Surely it's no longer important, right? Au contraire! As the Dobzhansky quote above indicates, evolution is the central unifying principle in biology and is influential not only throughout biology but also in disciplines that overlap or border on biology. In this seminar we will explore how an evolution-centered perspective is beneficial (required!?) for an adequate understanding of a variety of topics (e.g., infectious diseases, human behavior, medicine, science education and scientific literacy, conservation, philosophy) and how principles in evolutionary biology are being applied in these disparate areas. The format of the course will be discussion-based, with short reading assignments to prepare you to discuss each topic. A few short written/presentation assignments throughout the term will allow you to apply your knowledge of evolution and also introduce you to some of the academic resources available at the University of Minnesota.

BIOL 1905 Freshman Seminar for the Biological Sciences: Sci, Sex & Society: How do we know what we know?**A-F only, 2 credit(s), max credits 6; prereq freshman;****Instructor:** Phibbs,Anne Elizabeth

Description: Tackle recent gains in our scientific understanding of sex from biological, evolutionary, social and behavioral perspectives which impact identity. Develop and sharpen fundamental skills in the natural and social sciences.

BIOL 1905 Freshman Seminar for the Biological Sciences: Sci, Sex & Society: How do we know what we know?**A-F only, 2 credit(s), max credits 6; prereq freshman;****Instructor:** Cotner,Sehoya H

Description: Tackle recent gains in our scientific understanding of sex from biological, evolutionary, social and behavioral perspectives which impact identity. Develop and sharpen fundamental skills in the natural and social sciences.

BIOL 1905 Freshman Seminar for the Biological Sciences:**Photographing the University Community****A-F only, 2 credit(s), max credits 6; prereq freshman;****Instructor:** Lange,Alex John

Description: Photographing the University Community will provide students and faculty an opportunity to explore the art of photojournalism and/or documentary photography. Students and faculty will take photographs on the University campus or the surrounding neighborhoods and then each student and faculty member will assemble their photographs into a coherent essay. The course will include social themes, and have a strong writing component as well as the obvious focus on photography.

BIOL 1905 Freshman Seminar for the Biological Sciences:**Biotechnology for Fun and Profit****A-F only, 1 credit(s), max credits 6; prereq freshman;****Instructor:** Blumenfeld,Martin

Description: Biotech is the use of technology to manipulate living systems for human benefit. It's a complex and fascinating subject that blends science and technology with a broad range of non-scientific, non-technical human activities. The major focus of biotech is making money. In this seminar, we'll discuss biotech, its profit motives, and its relationships to politics.

BIOL 1905 Freshman Seminar for the Biological Sciences:**Cloning, Politics, and Religion****A-F only, 1 credit(s), max credits 6; prereq freshman;****Instructor:** Blumenfeld,Martin

Description: Scientists can clone animals, plants, cells, and DNA. Is this a good thing? In this seminar, we'll discuss cloning, its benefits, its limitations, and the ethical problems posed by its application to animals and plants in the twenty first century.

BIOL 1905 Freshman Seminar for the Biological Sciences: The Nature of Research Life: Is It For You?**A-F only, 3 credit(s), max credits 6; prereq freshman;****Instructor:** Marks,M David

Description: The Nature of Research Life: There will be two parts to this course. In the first part we will have formal classroom meetings where you will meet with researchers from all levels -- from current undergraduates working in labs to Full Professors. We will discuss how and why they ended up in research. In the second part you will participate in a National Science Foundation funded research project. You will receive hands on experience in using state of the art techniques to address basic scientific questions concerning Cell Biology.

BIOL 1905 Freshman Seminar for the Biological Sciences:**Using Knowledge You Never Thought You Would Use****A-F only, 1 credit(s), max credits 6; prereq freshman;****Instructor:** Fan,David P

Description: Much of my career was in laboratory biology. Among my research interests was hormones which can be conceptualized as messages sent in identical copies from one group of cells to another. At one point, I saw the parallel to mass media messages that are similarly sent by one group of people, the publishers, to another group of people, the general public. That led me to transfer the knowledge and thinking from biology to the social sciences, my current area of research. This course is to explore with students the possibilities of making similar transfers of knowledge from one domain to another, one of the keys to creative thinking.

BIOL 1905 Freshman Seminar for the Biological Sciences:**What Sex Should I Be?****A-F only, 1 credit(s), max credits 6; prereq freshman;****Instructor:** Phillips,Jane Ann

Description: Are you XX or XY? You probably know that I am asking if you are female or male, but the XY genetic system found in humans and most other mammals is not the only way that sex is determined in animals. Some animals develop into females if the temperature is high and others when the temperature is low. Other animals change their sex based on the sex of a nearby potential mate. In fact, some animals change their sex more than once in their lifetimes ? a pretty nifty trick! This seminar will explore different sex determination systems, how they work, and how external forces, including estrogen-mimics in our environment, can disrupt these systems. While learning about sex determination, you will also explore many of the resources at the University and elsewhere that will help you become a successful student and a proud graduate of the University of Minnesota.

BIOL 1905 Freshman Seminar for the Biological Sciences:**Being Human****A-F only, 2 credit(s), max credits 6; prereq freshman;****Instructor:** Phillips,Jane Ann

Description: There is nothing more fascinating to humans than humans. From the biology of our bodies to the spirituality of our minds, we spend a lifetime investigating who we are. In this seminar, we will explore a small subset of all that it means to be human, particularly focusing on the intersection of biology, evolution, and ethics. We will explore where we came from to

where we are going, how we study ourselves and how we use the information we find to better our health, and how better self-awareness will lead us to decisions we can live with. The course will also take time to explore what it means to be in college, what resources are available to help you succeed, and some strategies for success.

Style: 10% Lecture, 50% Discussion, 40% Student Presentation. Presentations involve leading group discussions.

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

BIOL 1905 Freshman Seminar for the Biological Sciences:

GENOMICS: Applications in Biomed Sci and Biotech

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

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:

Happy in Hell: Microbes Thriving at Extremes

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

Instructor: Bond, Daniel R

Description: It is a microbial world. Bacteria have adapted to life virtually everywhere on our planet. Bacteria and other microbes living in the wildest environments are commonly known as 'extremophiles.' Research in this area has led to several groundbreaking discoveries that have impacted biology in profound ways. This research is also driven by our fascination with life on other planets, and has rekindled the possibility that life may exist on nearby planets or moons (e.g. Mars or Europa). We will cover a variety of extreme environments, including; high and low temperature, high and low pH, dry, deep and other strange ecosystems, discuss how bacteria are able to thrive in such environments, and explore the feasibility of detecting life beyond Earth.

BIOL 1905 Freshman Seminar for the Biological Sciences:

BioArt

A-F only, 3 credit(s), max credits 6; prereq freshman;

Instructor: Willow, Diane

Description: BioArt Victimless Leather alive at MOMA, an artist designed DIY Digestive Table for your kitchen, the One Tree series of genetically identical trees living in San Francisco, and artists ?cultivating? consciousness with a Botanical Gameboy each hint at the range of contemporary artwork by artists whose creative work integrally links art and biology. Exploring topics from ecology to molecular biology, artists are accessing, critiquing, and demystifying biotechnology. We will examine the collaborative process between scientist, artist, and the public, the questions that artists and scientists pose, the poetic and political implications of this art, the response of scientists to this portrayal, and ethical issues associated with the creation of this art. These issues will be explored through engagement with living things, reading and discussions that develop critical thinking, as well as laboratory and studio sessions that lead to the creation of BioArt. To see examples of the range of BioArt go to: <http://www.tca.uwa.edu.au/> www.ekac.org/gfpbunny.html <http://hypernatural.com/digestive.html> <http://www.futurefarmers.com/survey/gameboy.php>

BIOL 1905 Freshman Seminar for the Biological Sciences: **Understanding Evolution-Creationism Controversy**

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

Instructor: Moore, Randy

Description: This course has two goals: 1) to help you succeed at the University of Minnesota, and 2) to help you develop your own understanding and appreciation of the evolution-creationism controversy. Succeeding at the University of Minnesota ? Each week we'll talk about concerns and/or questions you have about life at the U. Although I can't fix your parking tickets, I can tell you about what you'll need to do to succeed here. 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 2001 Career Planning for Biologists

S-N only, 1 credit(s);

Instructor: Underwood, Jean M

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. In addition to online discussions and assignments, you will have a required one-to-one meeting with the instructor

Style: 100% Web Based. One-to-one meeting with instructor is required. Time will be spent attending activities and events in addition to online component.

Grading: Points will be earned through the completion of required course activities.

BIOL 2001 Career Planning for Biologists

S-N only, 1 credit(s);

Instructor: LeFay, Lisa

Description: This course leads you through the steps of career planning and decision making. You will assess your strengths, interests and values. You will learn how to research careers. You will learn about successful strategies for setting goals and making decisions. Not only will you learn about campus resources but you will attend and participate in campus activities. Discussions are both online and held in class. There is a very strong web-based component to the class.

Style: 5% Lecture, 20% Discussion, 15% Small Group Activities, 10% Field Trips, 50% Web Based.

BIOL 2001 Career Planning for Biologists

S-N only, 1 credit(s);

Instructor: Mraz, Anna Catherine

Description: This course leads you through the steps of career planning and decision making. You will assess your strengths, interests and values. You will learn how to research careers. You will learn about successful strategies for setting goals and making decisions. Not only will you learn about campus resources but you will attend and participate in campus activities. Discussions are both online and held in class. There is a very strong web-based component to the class.

Style: 5% Lecture, 20% Discussion, 15% Small Group Activities, 10% Field Trips, 50% Service Learning.

BIOL 2001 Career Planning for Biologists

S-N only, 1 credit(s);

Instructor: Fraasch, Nancy S

Description: This course leads you through the steps of career planning and decision making. You will assess your strengths, interests and values. You will learn how to research careers. You will learn about successful strategies for setting goals and making decisions. Not only will you learn about campus resources but you will attend and participate in campus activities. Discussions are both online and held in class. There is a very

strong web-based component to the class.

Style: 5% Lecture, 20% Discussion, 15% Small Group Activities, 10% Field Trips, 50% Web Based.

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

A-F only, 5 credit(s); prereq [[CHEM 1021 or equiv], CBS major] or instr consent ; calculus I or equiv recommended; Credit will not be granted if credit has been received for: BIOL 2002H; Meets CLE req of Biological Sciences/Lab Core;

Instructor: Decker, Mark David

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 2002 Foundations of Biology for Biological Sciences Majors, Part I

A-F only, 5 credit(s); prereq [[CHEM 1021 or equiv], CBS major] or instr consent ; calculus I or equiv recommended; Credit will not be granted if credit has been received for: BIOL 2002H; Meets CLE req of Biological Sciences/Lab Core;

Instructor: Matthes, David J

Description: Biol 2002 is intended for majors in the College of Biological Sciences. It is the first of two foundational courses that cover core biological concepts, from biomolecules to ecosystems. This course emphasizes evolution, organismal diversity, and genetics within the context of problem solving and application. The lecture/recitation sections are integrated with laboratory exercises to give students basic experience with the methods of modern biology. Student participation is encouraged.

Style: 50% Lecture, 50% Laboratory.

Grading: 30% mid exam, 15% final exam, 50% laboratory evaluation, 5% problem solving.

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

A-F only, 5 credit(s); prereq [CHEM 1021 or equiv, CBS major] or instr consent ; calculus I or equiv recommended; Credit will not be granted if credit has been received for: BIOL 2002; Meets CLE req of Biological Sciences/Lab Core;

Instructor: Decker, Mark David

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, 5 credit(s); prereq [CHEM 1021 or equiv, CBS major] or instr consent ; calculus I or equiv recommended; Credit will not be granted if credit has been received for: BIOL 2002; Meets CLE req of Biological Sciences/Lab Core;

Instructor: Matthes, David J

Description: Biol 2002H is intended for majors in the College of Biological Sciences. It is the first of two foundational courses that cover core biological concepts, from biomolecules to ecosystems. This course emphasizes evolution, organismal diversity, and genetics within the context of problem solving and application. The lecture/recitation sections are integrated with laboratory exercises to give students basic experience with the methods of modern biology. Student participation is encouraged.

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

A-F only, 3 credit(s); prereq [2002 or 2002H or CBS major], concurrent enrollment in Biol 2004 (must register for 2004 before 2003), [MATH 1271 or equiv]; Credit will not be granted if credit has been received for: BIOL 2003H;

Instructor: Brooker, Robert James

Description: BIOL 2003 is intended for majors in the College of Biological Sciences. It is the second of two foundational courses that cover core biological concepts, from biomolecules to ecosystems. This course emphasizes ecology and biochemistry within the context of problem solving and application. This second semester emphasizes application of quantitative skills, concepts, and tools to biological problems through independent research. While students will meet regularly with instructors, they also will be responsible for scheduling their time in an open lab in order to complete their research project. At the end of this course, students will be qualified to enter a faculty research lab, internship, or other venue of active science.

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

A-F only, 3 credit(s); prereq [2002 or 2002H or CBS major], concurrent enrollment in Biol 2004 (must register for 2004 before 2003), [MATH 1271 or equiv]; Credit will not be granted if credit has been received for: BIOL 2003H;

Instructor: Couch, Brett Charles

Description: This course emphasizes ecology and biochemistry within the context of problem solving and application. Emphasis is placed on application of quantitative skills, concepts, and tools to biological problems through independent research.

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

A-F only, 3 credit(s); prereq [2002 or 2002H or CBS major], concurrent enrollment in Biol 2004 (must register for 2004 before 2003), [MATH 1271 or equiv]; Credit will not be granted if credit has been received for: BIOL 2003H;

Instructor: Wassenberg, Deena Marie

Description: This course emphasizes ecology and biochemistry within the context of problem solving and application. Emphasis is placed on application of quantitative skills, concepts, and tools to biological problems through independent research.

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

A-F only, 3 credit(s); prereq [2002 or 2002H], concurrent enrollment in Biol 2004H (must register for 2004H before 2003H) , [MATH 1271 or equiv], honors; Credit will not be granted if credit has been received for: BIOL 2003;

Instructor: Brooker, Robert James

Description: This course emphasizes ecology and biochemistry within the context of problem solving and application. Emphasis is placed on application of quantitative skills, concepts, and tools to biological problems through independent research.

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

A-F only, 3 credit(s); prereq [2002 or 2002H], concurrent enrollment in Biol 2004H (must register for 2004H before 2003H) , [MATH 1271 or equiv], honors; Credit will not be granted if credit has been received for: BIOL 2003;

Instructor: Couch, Brett Charles

Description:

BIOL 2004 Foundations of Biology for Biological Sciences Majors, Part II Laboratory

A-F only, 2 credit(s); prereq [2002 or 2002H or CBS major], concurrent enrollment in Biol 2003 (must register for 2004 before 2003); Credit will not be granted if credit has been received for: BIOL 2004H;

Instructor: STAFF

Description: Accompanies 2003. Students design/perform research projects. Relationship between biology and other sciences. Applying quantitative skills, scientific method, and modern biological tools to real-world questions.

BIOL 2004H Foundations of Biology for Biological Sciences Majors, Part II Laboratory

A-F only, 2 credit(s); prereq [2002 or 2002H], honors, concurrent enrollment in Biol 2003H (must register for 2004H before 2003H); Credit will not be granted if credit has been received for: BIOL 2004;

Instructor: Griffin, Daniel P

Description: This second semester emphasizes application of quantitative skills, concepts, and tools to biological problems through independent research. While students will meet regularly with instructors, they also will be responsible for scheduling their time in an open lab in order to complete their research project. At the end of this course, students will be qualified to enter a faculty research lab, internship, or other venue of active science.

BIOL 2004H Foundations of Biology for Biological Sciences Majors, Part II Laboratory

A-F only, 2 credit(s); prereq [2002 or 2002H], honors, concurrent enrollment in Biol 2003H (must register for 2004H before 2003H); Credit will not be granted if credit has been received for: BIOL 2004;

Instructor: Sandri, Brian John

Description: This second semester emphasizes application of quantitative skills, concepts, and tools to biological problems through independent research. While students will meet regularly with instructors, they also will be responsible for scheduling their time in an open lab in order to complete their research project. At the end of this course, students will be qualified to enter a faculty research lab, internship, or other venue of active science.

BIOL 2004H Foundations of Biology for Biological Sciences Majors, Part II Laboratory

A-F only, 2 credit(s); prereq [2002 or 2002H], honors, concurrent enrollment in Biol 2003H (must register for 2004H before 2003H); Credit will not be granted if credit has been received for: BIOL 2004;

Instructor: Biever, Jessica J

Description: This second semester emphasizes application of quantitative skills, concepts, and tools to biological problems through independent research. While students will meet regularly with instructors, they also will be responsible for scheduling their time in an open lab in order to complete their research project. At the end of this course, students will be qualified to enter a faculty research lab, internship, or other venue of active science.

BIOL 2004H Foundations of Biology for Biological Sciences Majors, Part II Laboratory

A-F only, 2 credit(s); prereq [2002 or 2002H], honors, concurrent enrollment in Biol 2003H (must register for 2004H before 2003H); Credit will not be granted if credit has been received for: BIOL 2004;

Instructor: Cameron, Stephan M

Description: This second semester emphasizes application of quantitative skills, concepts, and tools to biological problems through independent research. While students will meet regularly with instructors, they also will be responsible for scheduling their time in an open lab in order to complete their research project. At the end of this course, students will be qualified to enter a faculty research lab, internship, or other venue of active science.

BIOL 2004H Foundations of Biology for Biological Sciences Majors, Part II Laboratory

A-F only, 2 credit(s); prereq [2002 or 2002H], honors, concurrent enrollment in Biol 2003H (must register for 2004H before 2003H); Credit will not be granted if credit has been received for: BIOL 2004;

Instructor: Couch, Brett Charles

Description: This second semester emphasizes application of quantitative skills, concepts, and tools to biological problems through independent research. While students will meet regularly with instructors, they also will be responsible for scheduling their time in an open lab in order to complete their research project. At the end of this course, students will be qualified to enter a faculty research lab, internship, or other venue of active science.

BIOL 2004H Foundations of Biology for Biological Sciences Majors, Part II Laboratory

A-F only, 2 credit(s); prereq [2002 or 2002H], honors, concurrent enrollment in Biol 2003H (must register for 2004H before 2003H); Credit will not be granted if credit has been received for: BIOL 2004;

Instructor: Kong, Lingtian

Description: This second semester emphasizes application of quantitative skills, concepts, and tools to biological problems through independent research. While students will meet regularly with instructors, they also will be responsible for scheduling their time in an open lab in order to complete their research project. At the end of this course, students will be qualified to enter a faculty research lab, internship, or other venue of active science.

BIOL 2004H Foundations of Biology for Biological Sciences Majors, Part II Laboratory

A-F only, 2 credit(s); prereq [2002 or 2002H], honors, concurrent enrollment in Biol 2003H (must register for 2004H before 2003H); Credit will not be granted if credit has been received for: BIOL 2004;

Instructor: Chen, Jing

Description: This second semester emphasizes application of quantitative skills, concepts, and tools to biological problems through independent research. While students will meet regularly with instructors, they also will be responsible for scheduling their time in an open lab in order to complete their research project. At the end of this course, students will be qualified to enter a faculty research lab, internship, or other venue of active science.

BIOL 2004H Foundations of Biology for Biological Sciences Majors, Part II Laboratory

A-F only, 2 credit(s); prereq [2002 or 2002H], honors, concurrent enrollment in Biol 2003H (must register for 2004H before 2003H); Credit will not be granted if credit has been received for: BIOL 2004;

Instructor: Nelson, Paul

Description: This second semester emphasizes application of quantitative skills, concepts, and tools to biological problems through independent research. While students will meet regularly with instructors, they also will be responsible for scheduling their time in an open lab in order to complete their research project. At the end of this course, students will be qualified to enter a faculty research lab, internship, or other venue of active science.

BIOL 2005 Animal Diversity Laboratory

1 credit(s); Credit will not be granted if credit has been received for: BIOL 2012;

Instructor: STAFF

Description: This is a laboratory course and requires dissection and direct observation of animal diversity with emphasis upon morphology. The phylogenetic survey, from unicellular protists through the vertebrates, includes a wide array of organismal variation. Special attention is placed upon 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 2012 General Zoology

4 credit(s); prereq One semester of college biology; Credit will not be granted if credit has been received for: BIOL 2005;

Instructor: Barker, Fredrick K

Description: The course provides a framework for understanding the major groups of animals (phyla) on Planet Earth, ranging from unicellular protozoa to arthropods and mammals and including their marine, freshwater, and terrestrial representatives. The phyla are traced through evolutionary time to see how they solved the common problems of existence (e.g., feeding, movement, respiration, reproduction) and how their solutions have given rise to changing levels of structural complexity. Video clips and slides are liberally used to illustrate aspects of behavior, ecology, and relevance to human well-being. The laboratory is an integral part of the course; activities are hands-on and require dissections. The course is designed for undergraduate students in liberal arts and natural sciences and for preprofessional students in health sciences, agriculture, and natural resources. Lecture exams are based largely on lecture content and review questions from the text. Laboratory tests are practicum exams quizzing knowledge of actual specimens. The lecture text is Hickman et al., *Animal Diversity*, 5th ed. The lab text is Hickman and Kats, *Laboratory Studies in Animal Diversity*, 5th ed.

Style: 73% Lecture, 27% Laboratory.

Grading: 4 lecture exams; 4 lab exams

Exam Format: Lecture exams require short answers based on specific knowledge of concepts presented in lecture

BIOL 2022 General Botany

A-F only, 3 credit(s); prereq One semester of college biology;

Instructor: Ward, John M

Description: Scientific principles of plant biology including the evolution, anatomy, physiology, growth and development, and reproductive biology of plants and plant-like organisms. Includes lab.

Style: 60% Lecture, 40% Laboratory.

Grading: 100% other evaluation. 60% lecture, 40% laboratory

Exam Format: multiple choice

BIOL 2100 Brewing: The Biology, History, And Practice

A-F only, 2 credit(s); prereq 1001 or 1009 or 2002 or 2003 or 2004;

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); prereq [1301, CBS Dean's Scholar] or instr consent ;

Instructor: Letawsky Shultz, Nicole

Description: This course is part of the CBS Deans' Scholars program curriculum. This course is designed for you 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 you an opportunity to partner with a community organization during the semester based on articulated service outcomes. You will reflect on your work with the organization throughout the semester and consider your experiences as they relate to the content covered in the course. Course Learning Objectives: You will achieve the following objectives upon completion of the course: ? Articulate the importance of civic responsibility and service in leadership ? Define and develop skills to work effectively in diverse groups ? Understand how personal values and experiences influence perspectives on social issues Service Objectives: ? Objectives of service projects are determined by the needs of the community organization and developed in partnership with the Career and Community Learning Center at the University of Minnesota. Your service learning experience will be focused upon issues related to the biological sciences, health sciences, your future career goals, and/or a social issue in which you have a particular interest.

BIOL 2960H Explorations in the Biological Sciences: Honors Colloquium

A-F only, 1 credit(s); prereq CBS honors program, soph, dept consent;

Instructor: Berman, Judith G

Description: Explorations in the Biological Sciences is designed to help students build skills in reading and interpreting primary research papers, presenting concepts, and writing scientific proposals. Students are matched with a faculty mentor to discuss their research, write a proposal according to Undergraduate Research Opportunities Program (UROP) guidelines, and participate in peer review through study sessions. Faculty and career professionals in the biological sciences serve as guest speakers who introduce students to avenues of research and careers.

BIOL 3007W Plant, Algal, and Fungal Diversity and Adaptation 4 credit(s); prereq One semester college biology, CHEM 1021; Meets CLE req of Writing Intensive;

Instructor: VandenBosch, Kathryn A

Description: This course will introduce students in biology and the plant and environmental sciences to the evolution and diversity of plants and fungi, and to their adaptations to the environment. For each major group of algae, fungi, bryophytes and vascular plants, the following will be treated: ecosystem role; economic importance; morphology and anatomy, development and life cycles; and physiological adaptations including uptake and transport of nutrients, water movement, hormones, photosynthesis. The course will also provide an introduction to plant communities and ecosystems, and the interactions among organisms. The laboratory will provide a hands-on introduction to major groups of plants and fungi, emphasizing how structure and reproduction are adapted to habitat. The lab will also provide experience in formulating hypotheses, designing experiments and analyzing data. This course is writing intensive; therefore, a significant portion of your grade will be based on written work. You will write two papers that are based on experiments done in the lab, plus two summaries of scientific journal articles related to laboratory topics. You will also prepare two course overview essays that will help you integrate the topics covered in the class. Textbook: Raven, P.H., Evert, R.F., Eichhorn, S.E., 2005, *Biology of Plants*, 7th edition, W.H. Freeman & Company/Worth.

Style: 50% Lecture, 10% Discussion, 40% Laboratory.

Grading: 24% reports/papers, 34% written homework, 6% journal. 66% laboratory quiz scores, in class informal lecture summaries, mid exam, final exam. Two course overview essays (4%).

Exam Format: Short answers and essay questions.

BIOL 3211 Animal Physiology

3 credit(s); prereq [1002 or 1009 or 2003 or equiv], CHEM 1021; Concurrent registration in 2005 is strongly recommended;

Instructor: Palmer, Melissa L

Description: The main objective is understanding how animals carry out a variety of functions (e.g. respiration, movement). We will start by looking at some underlying general principles (e.g. diffusion, membrane voltages) and structures (e.g. membrane receptors) that will be useful in understanding how animals carry out these functions. We will then look at a number of problems faced by animals (e.g. the need for gas exchange) and the various systems animals use to solve these problems (e.g. gills, lungs). We will describe these systems at a variety of levels -- organismal, organ, tissue, cellular, and subcellular. There are two main goals of this course. One is to acquaint you with specific physiological systems. The other is to give you an overview that will help you visualize organisms in a way that integrates the various levels of organization. The hope is that, as you are introduced to more detailed descriptions of cellular and subcellular processes in later courses, you will see how these processes fit into the the entire organism.

Style: 100% Lecture.

Grading: 50% final exam, 50% other evaluation. midsemester exams (25% each)

Exam Format: multiple choice

BIOL 3211 Animal Physiology

3 credit(s); prereq [1002 or 1009 or 2003 or equiv], CHEM 1021; Concurrent registration in 2005 is strongly recommended;

Instructor: Goldstein, Stuart F

Description: The main objective is understanding how animals carry out a variety of functions (e.g. respiration, movement). We will start by looking at some underlying general principles (e.g. diffusion, membrane voltages) and structures (e.g. membrane receptors) that will be useful in understanding how animals carry out these functions. We will then look at a number of problems faced by animals (e.g. the need for gas exchange) and the various systems animals use to solve these problems (e.g. gills, lungs). We will describe these systems at a variety of levels -- organismal, organ, tissue, cellular, and subcellular. There are two main goals of this course. One is to acquaint you with specific physiological systems. The other is to give you an overview that will help you visualize organisms in a way that integrates the various levels of organization. The hope is that, as you are introduced to more detailed descriptions of cellular and subcellular processes in later courses, you will see how these processes fit into the the entire organism.

Style: 100% Lecture. 3 hours/week lecture

Grading: 50% final exam, 50% other evaluation. midsemester exams (25% each)

Exam Format: multiple choice

BIOL 3302 Leadership For Change

S-N only, 1 credit(s); prereq 1301, 2301, CBS dean's scholar; 2001 recommended;

Instructor: Asmundson, Aaron R

Description: This course examines the theoretical concepts and practice of leading change in organizational, community and/or social contexts. Each student will engage in a hands-on experience leading a change initiative. Students will create a vision for change, develop an action plan, implement their plan, and evaluate the outcomes of their work within a project focused on their areas of professional interest (health care, environment, etc.) or science education. The course material and discussions will serve as a framework and provide support as engage in the experiential components of the change project.

BIOL 3408W Ecology

3 credit(s); prereq [One semester college biology], [MATH 1142 or MATH 1271 or MATH 1281 or equiv]; Credit will not be granted if credit has been received for: EEB 3001; Meets CLE req of Environment Theme; meets CLE req of Writing Intensive;

Instructor: Alstad, Donald Norman

Description: Biology 3408W offers an introduction to the growth, regulation, and structure of plant and animal populations; biotic interactions between species and their effects on community diversity and succession; the trophic dynamics of ecosystems; cycling of carbon, nutrients, and energy; and ecological consequences of global change. It includes a series of lectures, and weekly subsection meetings for discussion, laboratory experiments, and computer simulation exercises designed to complement the lecture program and foster understanding of important conceptual issues. Biology 3408W has four principal learning objectives. First, the lecture program and section discussions introduce a wide range of ecological subjects and issues. Second, in lecture, lab experiments and via problem sets, we teach the quantitative and analytical skills required to conceptualize ecological dynamics. Third, because variances associated with measurement, replication, and treatment effects are part of all empirical ecology, we offer practice in spreadsheet data manipulation, descriptive statistics, the analysis of variance, and experimental design. Finally, because all scientists must convey the results of their work, we coach students through preparation and completion of two written lab reports, one on a simple experiment of our design, and one on an experiment that student collaborators design for themselves.

Style: 40% Lecture. discussion, lab, and computer simulation

Grading: 25% mid exam, 25% final exam, 25% reports/papers, 20% written homework, 5% in-class presentation. Problem Sets

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

BIOL 3409 Evolution

3 credit(s); prereq One semester college biology; Credit will not be granted if credit has been received for: BIOL 5409;

Instructor: Zink, Robert Martin

Description: This course presents an overview of the biology of evolutionary change. After a brief review of the history of thought in evolutionary biology, genetic mechanisms of evolution change are presented, including mutation and recombination, natural selection and genetic drift. Population genetics and molecular evolution are explored in depth. Examples of macroevolution are presented including adaptation by natural selection, sexual selection, speciation, species concepts and extinction. Human health is used to illustrate the adaptive ability of microorganisms, and we also touch on the evolution of aging.

BIOL 3411 Introduction to Animal Behavior

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

Instructor: MacNulty, Daniel Robert

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

BIOL 3503 Biology of Aging

2 credit(s); prereq 1002 or 1009 or 2003 or equiv;

Instructor: Curtsinger, James W

Description: The biology of aging is an integrative discipline, encompassing studies of molecules, genes, cells, tissues, organs, organisms, and populations. In this course we will examine several general areas of research on aging in both humans and model experimental systems, including age-related changes in populations, age-related changes in individuals, genes that influence aging, cellular mechanisms, evolution of senescence, interventions to slow aging, and future prospects for human societies. The course is intended for undergraduates who have completed a college-level course in general biology.

Style: 80% Lecture, 15% Discussion, 5% Guest Speakers. Expect to spend about 4 hours per week out of class on reading assignments and notebooks.

Grading: 80% quizzes, 20% written homework. Extra credit for reading optional papers and entering in notebooks.

Exam Format: Mixture of multiple choice, problem, and short essay

BIOL 3600 Directed Instruction

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

Instructor: Hanna, Kathryn L

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

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

BIOL 3610 Internship: Professional Experience in Biological Sciences

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

Instructor: Hanna, Kathryn L

Description: Undergraduate students can earn credit for a structured internship that matches their academic and/or career goals in life science with off-campus learning opportunities. Biological sciences internships in industry, non-profit organizations, and government agencies may be found through the Career Center for Science and Engineering (50 Lind Hall, Minneapolis Campus). Credit number is variable and will be

based on time spent on-site and other course requirements. Students must commit to a minimum of 10 hours/week/semester (at least 150 hours). Students will submit a Learning Agreement Form developed in consultation with the on-site internship supervisor and the faculty instructor. Students must meet individually with the instructor in order to register for credit. If a student has questions about a specific internship opportunity, contact the instructor at khanna@umn.edu. Examples of organizations that have hosted internship students include, Hennepin County Medical Center, Minnesota Zoo, MN Bureau of Criminal Apprehension, MN Dept. of Natural Resources, Medtronic, Medtox, Wildlife Rehabilitation Center, and many, many other organizations.

Style: Interns will meet as a group for 3 evening sessions, TBA.
Grading: 100% other evaluation. Students are required to keep a weekly journal and write a final reflective paper. Beyond one credit, students may help select the type of assignments that help them enhance their internship experience. S/N grading only.

**BIOL 3700 Undergraduate Seminar: Gateway to Research
S-N only, 1 credit(s), max credits 3, 3 completions allowed;
Instructor:** Phillips,Jane Ann

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

Style: 40% Discussion, 40% Small Group Activities, 10% Field Trips, 10% Guest Speakers.
Grading: 50% reports/papers, 50% in-class presentation. Absences will be counted against the in-class participation points since you cannot participate if you are not there.

**BIOL 3960H Honors Seminar
A-F only, 1 credit(s), max credits 2; prereq CBS honors;
Instructor:** Marks,M David

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

**BIOL 3960H Honors Seminar
A-F only, 1 credit(s), max credits 2; prereq CBS honors;
Instructor:** Wick,Susan M

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

**BIOL 3960H Honors Seminar
A-F only, 1 credit(s), max credits 2; prereq CBS honors;
Instructor:** Moore,Randy

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

**BIOL 4003 Genetics
3 credit(s); prereq [[BIOC 3021 or BIOC 4331], [any CBS major or major in [animal science or applied plant science or BA biology or BA microbiology or nutrition or physiology or biology/society/environment]]] or instr consent ; Credit will not be granted if credit has been received for: GCD 3022;**

Instructor: Simmons,Michael J
Description: Introduction to the nature of genetic information, its transmission from parents to offspring, its expression in cells and organisms, and its course in populations. The course is intended for majors in biology and related disciplines. .
Style: 90% Lecture, 10% Discussion.
Grading: Based on exams and short papers: weighting for the exams and papers will be announced in class.
Exam Format: problem solving, multiple choice, short answer

**BIOL 4003 Genetics
3 credit(s); prereq [[BIOC 3021 or BIOC 4331], [any CBS major or major in [animal science or applied plant science**

or BA biology or BA microbiology or nutrition or physiology or biology/society/environment]]] or instr consent ; Credit will not be granted if credit has been received for: GCD 3022;
Instructor: Brooker,Robert James
Description: Student may contact the instructor or department for information.

**BIOL 4003 Genetics
3 credit(s); prereq [[BIOC 3021 or BIOC 4331], [any CBS major or major in [animal science or applied plant science or BA biology or BA microbiology or nutrition or physiology or biology/society/environment]]] or instr consent ; Credit will not be granted if credit has been received for: GCD 3022;**

Instructor: Glazebrook,Jane
Description: This is a survey course in Genetics that is aimed at junior and senior undergraduates majoring in the biological sciences. For most students who take this class, it is a required course. Other students are most welcome to participate. The course consists of lectures, including some web-based animations illustrating important concepts, and some examples of problem-solving techniques. A basic understanding of probability and biochemistry is essential for successful learning, as is a dedication to solving practice problems. The course begins with classical Mendelian genetics, proceeds through basic molecular genetics, and concludes with recombinant DNA, identification of human disease genes, DNA fingerprinting, and transgenic organisms. The course relies heavily on a textbook: "Principles of Genetics" by Snustad and Simmons, 4th edition. Almost all the figures used in lectures come from the textbook, and students are advised to bring the textbook to each lecture.
Style: 100% Lecture.
Grading: 70% mid exam, 30% final exam.
Exam Format: Multiple choice, short answers and problems

**BIOL 4003 Genetics
3 credit(s); prereq [[BIOC 3021 or BIOC 4331], [any CBS major or major in [animal science or applied plant science or BA biology or BA microbiology or nutrition or physiology or biology/society/environment]]] or instr consent ; Credit will not be granted if credit has been received for: GCD 3022;**

Instructor: Shima,Naoko
Description: Course Structure: The course consists of four approximately equal units: (I) Mendelian Genetics, (II) Molecular Genetics, (III) Genetics of Biological Processes, and (IV) Applied and Quantitative Genetics. All four units will emphasize the analysis of experiments and problem solving. Text: Genetics: Analysis & Principles 3rd Edition by Robert J. Brooker (McGraw-Hill)
Style: 90% Lecture, 10% Discussion.
Grading: 68% mid exam, 22% final exam, 10% class participation.
Exam Format: Combination of multiple choice and short-answer questions

**BIOL 4004 Cell Biology
3 credit(s); prereq [3021 or BIOC 3021 or BIOC 4331], [4003 or BIOC 4332];**

Instructor: Brooker,Robert James
Description: Cell biology is the branch of biology that is concerned with the structure and function of cells. This course will provide you with a broad understanding of cell biology. It begins with an overview of techniques to grow, manipulate, and visualize cells. We then consider the composition of cells, the structure of cell membranes, and the movement of substances across membranes. These topics will prepare you to understand how cells convert energy in order to grow and maintain their internal order. Along these lines, you will learn how plants extract solar energy via photosynthesis. Just before the midcourse exam, we will consider how cells are compartmentalized and how proteins are sorted to their correct compartments. The second part of the course is largely concerned with cell organization and function, both inside and out. You will learn that eukaryotic cells have an internal cytoskeleton that provides

organization and aids in movement. We will next consider the regulation and structural aspects of cell division, cell signaling, and components that are secreted from cells. This course will end with a discussion of cancer. An examination of cancer cells will serve to integrate your understanding of cell biology. Course Outline Lesson 1--Growing, Fractionating, and Visualizing Cells, submission 1 Lesson 2--Structures of Proteins and Membranes, submission 2 Lesson 3--Membrane Transport, submission 3 Lesson 4--Energy Conversion, submission 4 Lesson 5--Compartmentalization, Protein Sorting, and Vesicular Traffic, submission 5 Lesson 6--Midcourse Exam Directions, submission 6 Lesson 7--The Cytoskeleton, submission 7 Lesson 8--The Cell Cycle and Cell Division, submission 8 Lesson 9--Cell Communication, submission 9 Lesson 10--Cell Junctions, Cell Adhesion, and the Extracellular Matrix, submission 10 Lesson 11--Cancer, submission 11 Lesson 12--Final Exam Directions, submission 12 Course Materials Alberts, Bruce, et al. Molecular Biology of the Cell, 4th edition. New York: Garland Science, 2002. This textbook comes with a Cell Biology Interactive CD-ROM, which provides you with a powerful tool for understanding and appreciating the dynamics of the microscopic and molecular world. It includes video clips, animations, molecular structures, and high-resolution micrographs. The use of this CD-ROM is not required for this course, but it will enhance your understanding of the once-unseen behavior and inner workings of living cells.

Style: This is a printed correspondence course.

Grading: 40% mid exam, 40% final exam, 20% written homework. 93% or more--A 90-92%--A- 87-89%--B+ 83-86%--B 80-82%--B- 75-79%--C+ 65-74%--C 60-64%--C- 57-59%--D+ 50-56%--D 49% or fewer--F If you take the course on the S/N basis, you must earn the equivalent of a C to receive an S grade.

Exam Format: Supervised, in-person exams.

BIOL 4004 Cell Biology

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

Instructor: Brambl, Robert Morgan

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

BIOL 4004 Cell Biology

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

Instructor: Clarke, Duncan John

Description: Processes fundamental to cells. Emphasizes eukaryotic cells. Assembly/function of membranes/organelles. Cell division, cell cycle control, apoptosis, cell form/movement, intercellular communication, transport, secretion pathways. Cancer cells, differentiated cells.

Style: 80% Lecture, 20% Discussion.

Grading: 60% mid exam, 20% final exam, 20% quizzes.

BIOL 4004 Cell Biology

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

Instructor: Matthes, David J

Description: This course focuses on structures and processes fundamental to cells. We emphasize eukaryotic animal cells. In particular we will discuss molecular and cellular research methods, assembly/function of membranes and organelles, cell division, cell form/movement, intercellular communication, transport, secretion pathways and stem cells & stem cell technology. This course has a strong problem-solving emphasis.

Style: 70% Lecture, 25% Discussion, 5% Guest Speakers.

Grading: 50% mid exam, 25% final exam, 10% class participation, 15% problem solving.

Exam Format: Multiple choice, short answer, essay

BIOL 4201 Teaching in the Biology Laboratory

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

Instructor: Palmer, Melissa L

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

BIOL 4700 Cell Physiology

A-F only, 3 credit(s); prereq 3211 or PHSL 3051 or PHSL 3061; CHEM 1022, MATH 1272, [PHYS 1202W or equiv]

recommended;

Instructor: Palmer, Melissa L

Description:

Style: 90% Lecture, 5% Discussion, 5% Small Group Activities.

Grading: 30% final exam, 60% additional semester exams, 10% class participation.

BIOL 4794W Directed Research

S-N only, 1-6 credit(s), max credits 36, 6 completions allowed; prereq instr consent , dept consent ; Meets CLE req of Writing Intensive;

Instructor: Munderloh, Ulrike G

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

BIOL 4994 Directed Research

S-N only, 1-6 credit(s), max credits 36, 6 completions allowed; prereq instr consent , dept consent ;

Instructor: Beitz, Alvin James

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

BIOL 5409 Evolution

3 credit(s); prereq One semester of college biology, grad student; Credit will not be granted if credit has been received for: BIOL 3409;

Instructor: Zink, Robert Martin

Description: This course presents an overview of the biology of evolutionary change. After a brief review of the history of thought in evolutionary biology, genetic mechanisms of evolution change are presented, including mutation and recombination, natural selection and genetic drift. Population genetics and molecular evolution are explored in depth. Examples of macroevolution are presented including adaptation by natural selection, sexual selection, speciation, species concepts and extinction. Human health is used to illustrate the adaptive ability of microorganisms, and we also touch on the evolution of aging.

BIOL 5485 Bioinformatics: Experimental Design and Computational Analysis in Systems Biology

A-F only, 3 credit(s); prereq 4003 or Concurrent registration is required (or allowed) in 4003 or equiv;

Instructor: Katagiri, Fumiaki

Description: PUPPOSE: This course will introduce students to computational tools and concepts for molecular-oriented biology and genomics, through lecture and hands-on experience in computer lab. TOPICS: include sequence alignment, dynamic programming and heuristics, Bayesian approaches, phylogenetic analysis, motif search, genomics and other OMICS, statistics and multivariate analysis, microarray data analysis.

OUTCOMES: At the completion of this course, students will have acquired practical knowledge about a broad range of bioinformatic topics, including basic operation of some of the tools for the topics, principles behind the tools, and advantages and disadvantages of the tools. This course is intended for biology-related graduate students and advanced undergraduates.

Style: 45% Lecture, 15% Discussion, 40% Laboratory.

Grading: 35% mid exam, 35% final exam, 15% class participation, 15% problem solving.

Exam Format: problem solving, take home

BIOL 6793 Directed Studies

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

Instructor: Fuchs, James A

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

BIOL 6794 Directed Research

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

Instructor: Fuchs, James A

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

BIOL 6999 Capstone Project

S-N only, 2 credit(s); prereq MBS, instr consent;

Instructor: Fuchs,James A

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

Biomedical Engineering

7-105 Nils Hasselmo Hall

BMEN 1601 Biomedical Engineering Undergraduate Seminar I
1 credit(s); prereq credit will not be granted if credit already received for: **BMEn 2601;**

Instructor: Tranquillo PhD,Robert T

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

BMEN 2401 Programming for Biomedical Engineers

A-F only, 2 credit(s); prereq Math 1272, Phys 1302;

Instructor: Amini,Rouzbeh

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

BMEN 2501 Cellular and Molecular Biology for Biomedical Engineers

A-F only, 4 credit(s); prereq CHEM 1022, MATH 1372, PHYS 1302, [dept consent or college consent];

Instructor: Sachs,Jonathan Nathaniel

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

BMEN 3001 Biomechanics

A-F only, 4 credit(s); prereq MATH 2374, Phys 1302, [BME upper div or dept consent];

Instructor: Barocas,Victor Howard

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

BMEN 3201 Bioelectricity and Bioinstrumentation

A-F only, 4 credit(s); prereq [Math 2263 or Math 2374], Phys 1302, [BMEN upper div or dept consent];

Instructor: Lim PhD,Hubert Hyungil

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

BMEN 4001W Biomedical Engineering Design I

A-F only, 3 credit(s); prereq 2501, 3001, 3101, 3201, 3301, 3701; Meets CLE req of Writing Intensive;

Instructor: Ashkenazi,Shai

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

BMEN 4710 Directed Research

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

Instructor: Odde,David John

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

BMEN 4720 Directed Study

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

Instructor: Odde,David John

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

BMEN 4896 Industrial Assignment I: Co-op Program

A-F only, 2 credit(s); prereq BMEn upper div, completion of required courses in BMEn prog through spring sem of 3rd yr, registered in co-op prog;

Instructor: Odde,David John

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

BMEN 5001 Advanced Biomaterials

A-F only, 3 credit(s); prereq 3301 or MatS 3011 or grad student or instr consent;

Instructor: Wang,Chun

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

BMEN 5041 Tissue Engineering

3 credit(s); prereq IT upper div or grad student or med student or instr consent;

Instructor: Shen,Wei

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

BMEN 5201 Advanced Biomechanics

3 credit(s); prereq [[3001 or equiv], [IT upper div or grad student]] or instr consent;

Instructor: Simha PhD,Narendra K

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

BMEN 5351 Cell Engineering

3 credit(s); prereq [2501 or 5501], CSCI 1107, [Math 2243 or Math 2373], [IT upper div or grad student or instr consent];

Instructor: Odde,David John

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

BMEN 5401 Advanced Functional Biomedical Imaging

A-F only, 3 credit(s); prereq IT upper div or grad student or instr consent ;

Instructor: He,Bin

Description: Tremendous advances in medical imaging have been witnessed in the past decades. Over the past decade, functional biomedical imaging has played an important role in understanding the mechanisms of biological systems and improving the clinical diagnosis of various diseases. The goal of this course is to introduce important functional biomedical imaging modalities, and discuss the principles and applications of representative functional imaging technologies that offer high spatial resolution or temporal resolution. Our emphasis will be to develop a deep understanding and appreciation of the principles and methodological foundations of bioelectromagnetic imaging and magnetic resonance imaging. Other functional biomedical imaging modalities will also be discussed, including ultrasound, CT, impedance imaging, optical imaging, PET/SPECT, and multimodal imaging. This is one of the core biomedical engineering graduate courses. It is designed to provide a general introduction to biomedical imaging for those who are interested, and an in-depth appreciation of the principles and methods related to bioelectromagnetic imaging and MRI. No prior knowledge with regard to physiology or imaging is required.

BMEN 5411 Neural Engineering

3 credit(s); prereq 3401 recommended;

Instructor: Netoff,Tay Ivan

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

BMEN 5501 Biology for Biomedical Engineers

3 credit(s); prereq Engineering upper div or grad student;

Instructor: Sachs,Jonathan Nathaniel

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

BMEN 8401 New Product Design and Business Development

A-F only, 4 credit(s); prereq [IT grad student or CSOM grad student], some design experience; 8401, 8402 must be taken same yr; Credit will not be granted if credit has been received for: ME 8221;

Instructor: Rao,Dileep R

Description: See the course web site for a complete description.

BMEN 8401 New Product Design and Business Development
 A-F only, 4 credit(s); prereq [IT grad student or CSOM grad student], some design experience; 8401, 8402 must be taken same yr; Credit will not be granted if credit has been received for: ME 8221;
Instructor: Durfee, William K
Description: See the course web site for a complete description.

BMEN 8431 Controlled Release: Materials, Mechanisms, and Models
 A-F only, 3 credit(s); prereq 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: Student may contact the instructor or department for information.

BMEN 8601 Biomedical Engineering Seminar
 S-N only, 1 credit(s);
Instructor: Barocas, Victor Howard
Description: Student may contact the instructor or department for information.

BMEN 8710 Directed Research
 1-3 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, 3 credit(s); prereq Grad BMEN major;
Instructor: Barocas, Victor Howard
Description: Student may contact the instructor or department for information.

BMEN 8820 Plan B Project
 3 credit(s); prereq BMEN MS student;
Instructor: Barocas, Victor Howard
Description: Student may contact the instructor or department for information.

BMEN 8900 Special Topics in Biomedical Engineering: Nonlinear Dynamics in Electrophysiology
 A-F only, 3 credit(s), max credits 8;
Instructor: Talkachova, Alena
Description: Student may contact the instructor or department for information.

BMEN 8910 Independent Study
 1-3 credit(s), max credits 3, 1 completion allowed; prereq Grad BMEN major;
Instructor: Barocas, Victor Howard
Description: Student may contact the instructor or department for information.

Biomedical Informatics and Computational Biology

BICB Graduate Program Administration

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

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

for information.

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

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

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

Biophysical Sciences

B272 Mayo Memorial Building

BPHY 5138 Research Seminar
 S-N only, 1-5 credit(s), max credits 5, 1 completion allowed;
Instructor: Ritenour, E Russell
Description: Student may contact the instructor or department for information.

BPHY 5170 Basic Radiological Physics
 3 credit(s); prereq instr consent; Credit will not be granted if credit has been received for: TRAD 7170;
Instructor: Gerbi PhD, Bruce John
Description: Student may contact the instructor or department for information.

BPHY 5171 Medical and Health Physics of Imaging I
 3 credit(s); prereq 5170 or instr consent; Credit will not be granted if credit has been received for: TRAD 7171;
Instructor: Ritenour, E Russell
Description: Student may contact the instructor or department for information.

BPHY 5172 Radiation Biology
 3 credit(s); prereq 5170 or instr consent; Credit will not be granted if credit has been received for: TRAD 7172;
Instructor: Yuan, Jianling
Description: Student may contact the instructor or department for information.

BPHY 8149 Advanced Topics in Radiation Therapy Physics
 A-F only, 2 credit(s); prereq [5170, 5173] or instr consent ;
Instructor: Higgins, Patrick Dennis
Description: Student may contact the instructor or department for information.

BPHY 8293 Directed Study in Biophysical Sciences and Medical Physics
 1-12 credit(s), max credits 12, 1 completion allowed; prereq instr consent;
Instructor: Ritenour, E Russell
Description: Student may contact the instructor or department for information.

BPHY 8294 Directed Research in Biophysical Sciences and Medical Physics
 1-12 credit(s), max credits 12, 1 completion allowed; prereq instr consent;
Instructor: Ritenour, E Russell

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

Bioproducts and Biosystems Engineering

203 Kaufert Lab

BBE 1001 Bioproducts and Biosystems Engineering

Orientation

S-N only, 1 credit(s);

Instructor: Seavey, Robert Thomas

Description: Introduction to programs in the department including bioproducts and biosystems engineering, bioproducts marketing and management, residential building science and technology, and corporate environmental management. Orientation to the programs including curriculum, intern, undergraduate research, and honors opportunities. Guest speakers include faculty, alumni, and other professionals related to the program areas. Class time includes a mix of common topics and breakout sessions focused on the various programs. Several field trips or retreat experiences are included.

Style: 50% Lecture, 30% Discussion. Field trips and retreats

Grading: 20% reports/papers, 50% class participation, 30% other evaluation. Participation in field trips and retreats

BBE 1001 Bioproducts and Biosystems Engineering

Orientation

S-N only, 1 credit(s);

Instructor: Morey, R Vance

Description: Introduction to programs in the department including bioproducts and biosystems engineering, bioproducts marketing and management, residential building science and technology, and corporate environmental management. Orientation to the programs including curriculum, intern, undergraduate research, and honors opportunities. Guest speakers include faculty, alumni, and other professionals related to the program areas. Class time includes a mix of common topics and breakout sessions focused on the various programs. Several field trips or retreat experiences are included.

Style: 50% Lecture, 30% Discussion. Field trips and retreats

Grading: 20% reports/papers, 50% class participation, 30% other evaluation. Participation in field trips and retreats

BBE 1906W Freshman Seminar: Sustainable Housing:

Community, Technology and Env

3 credit(s); prereq Fr; Meets CLE req of Environment Theme; meets CLE req of Writing Intensive;

Instructor: Seavey, Robert Thomas

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

BBE 2113 Introduction to Design

A-F only, 3 credit(s); prereq Math 1271;

Instructor: Morey, R Vance

Description: Creativity, problem formulation, identification of alternative solutions, safety/health considerations, economic feasibility. Engineering economics. Engineering ethics. Engineering graphics, computer drafting. Design projects involving written, graphic, and oral presentations.

Style: 40% Lecture, 40% Laboratory, 15% Small Group Activities, 5% Student Presentation.

Grading: 20% mid exam, 20% final exam, 20% special projects, 15% written homework, 25% problem solving.

BBE 2201 Renewable Energy and the Environment

3 credit(s);

Instructor: Huelskamp, Richard James

Description: Course Title: Renewable Energy and the Environment Course Objective: This course is intended to provide an overview of society's diverse choice of renewable energy technologies. An interdisciplinary observation of their potentials, challenges and opportunities will result.

Understanding the environmental, technical, and economic implications of each of the renewable energy opportunities will provide the student the ability to make informed personal, career, and public decisions for today's global world. Grading Basis: A-F or S/N Prerequisites: None Class Schedule: 2 lectures per week Tuesdays and Thursdays; some field trips Course Outcomes: As a result of participating in this course, the student will be able to: 1. Identify and describe the present energy use, trends, and impacts. 2. Analyze the existing energy practices to determine what level of energy efficiency and shift in energy resources is necessary. 3. Understand the economic impact and the financial resources needed to use renewable energy technologies. 4. Identify and describe the variety, quantity, and environmental impacts of renewable energy resources. 5. Understand the basic design(s) of renewable energy conversion technologies. 6. Realize the economic and environmental impacts of a renewable energy industry and consider the job opportunities that are and will exist. Topics: Energy use: Where we are now? Non-Renewable Fuels Quantity of transportation, heating, and electricity production fuels used. Environmental impacts as a result of energy use today The economics of using energy resources. Jobs and economic development.

Environmental costs of using energy resources. Renewable energy resources Solar Wind Biomass Geothermal Hydro (rivers and oceans) Quantity and availability of renewable energy resources. The promises and problems of solar, wind, biomass, geothermal and hydro energy resources. Comparison of the quantity and availability of renewable energy resources to non-renewable energy resources. Conversion technologies to provide heat, electricity and transportation Non-renewable energy conversion technologies. Renewable energy conversion technologies. Solar ? thermal and photovoltaic Wind ? small and large electric generation Biomass ? solids, liquids, and gases to thermal and electric energy and In addition to energy, consider organic chemicals from biomass Geothermal ? low and high temperature Hydro (rivers and oceans) small and large electric Economic growth opportunities of the renewable energy industry The energy cost savings The renewable energy industry job growth The financial industry growth due to renewable energy products . Student Performance Assessment: Homework & Projects - 50%; mid term - 25%, Exams - 25% Prepared by: Rich Huelskamp and Shri Ramaswamy Date: February 14, 2008

BBE 3001 Mechanics and Structural Design

A-F only, 4 credit(s); prereq [MATH 1272 or MATH 1372], [PHYS 1101 or PHYS 1301];

Instructor: Chaplin, Jonathan

Description: Fundamental treatment of statics, dynamics, and principles of structural design. Techniques for individual components, including trusses, beams, and columns. Using conventional lumber products, engineered wood products, and steel. Lab.

BBE 3001 Mechanics and Structural Design

A-F only, 4 credit(s); prereq [MATH 1272 or MATH 1372], [PHYS 1101 or PHYS 1301];

Instructor: Chaplin, Jonathan

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

BBE 3013 Engineering Principles of Molecular and Cellular Processes

A-F only, 3 credit(s); prereq Biol 1009, [Chem 1022 or Concurrent registration is required (or allowed) in Chem 1022], Math 1272;

Instructor: Bhattacharya, Mrinal

Description: Introduction to applied engineering principles in biological processes, classification of microbes of industrial importance, parameters important for cellular control, modeling of cell growth and metabolism, enzymatic catalysis, bioreactor design, product recovery operations design and case studies. Course objectives/outcomes: Students will: 1) Become familiar with topics in current industrial microbiology. 2) Understand cell growth and metabolism. 3) Gain an understanding of parameters involved in bioreactor design. 4) Gain an understanding of various downstream separation processes. 5) Participate in

laboratory course.

Style: 60% Lecture, 10% Discussion, 30% Laboratory.

Grading: 20% final exam, 20% special projects, 20% quizzes, 20% laboratory evaluation, 20% problem solving.

Exam Format: Essay

BBE 3023 Ecological Engineering Principles

3 credit(s); prereq BIOL 1009, [CE 3502 or Concurrent registration is required (or allowed) in CE 3502] or instr consent ;

Instructor: Clanton, Chuck

Description: Conceptual outline/topics: 1) Soil physical properties; 2) Basic soil calculations; 3) Soil and land reference material; 4) Texture and particle size distribution; 5) Temperature and heat flow; 6) Soil development; 7) Soil moisture and moisture potential; 8) Moisture movement-saturated and -unsaturated flow; 9) Soil classification; 10) Soil strength, compaction; 11) Soil biology, organics, nutrients, pesticides; 12) Plant fun, facts, and statistics; 13) Plant growth and nutrition; 14) Energy in agriculture; 15) Plant microclimate and water use; 16) Plant stress; 17) Water pollution effect on plants, constructed wetlands for water quality; 18) Air pollution effects on plants; 19) Cropping systems; 20) Rain forests; 21) Plant ecology; 22) Biodiversity, domestication, development and alternative crops; 23) Engineering impacts on the plant, soil-water-plant relationships. The target audience is undergraduates, primarily juniors.

Style: 60% Lecture, 15% Discussion, 25% Laboratory.

Grading: 40% final exam, 15% reports/papers, 30% quizzes, 15% laboratory evaluation.

Exam Format: Problems, short answer

BBE 3023 Ecological Engineering Principles

3 credit(s); prereq BIOL 1009, [CE 3502 or Concurrent registration is required (or allowed) in CE 3502] or instr consent ;

Instructor: Clanton, Chuck

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

BBE 3093 Directed Studies

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

Instructor: STAFF

Description: Independent study of topic(s) involving physical principles as applied to agricultural production and land resources. Contact the department for information.

BBE 3101 Introductory Statics and Structures for Construction Management

A-F only, 3 credit(s); prereq Working knowledge of [trigonometry, geometry, algebra];

Instructor: STAFF

Description: Statics, engineering wood design principles, mechanical properties of wood. Design techniques for individual components. Trusses, beams, columns. Using conventional lumber products, engineered wood products, and steel. Simple structures explored through examples, assignments.

BBE 3393 Directed Study

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

Instructor: STAFF

Description: Opportunity to pursue experience not available through independent study or extra credit. In consultation with an advisor students develop a prospectus and complete progress reports and a final report on the project.

BBE 3396 Industrial Internship (Industrial Assignment)

A-F only, 1 credit(s); prereq BBE cooperative ed student;

Instructor: STAFF

Description: Industrial work assignment in forest products cooperative education programs. Evaluation based on formal report written by student at end of each semester of work assignment.

BBE 3412 Introduction to Residential Building Materials

Estimating

A-F only, 1 credit(s);

Instructor: Petersen, Harlan D

Description: Residential construction terminology. Estimating procedures, including blueprint reading and piece-by-piece building material "take-off" from construction plans. Held second half of semester.

Style: 60% Lecture, 40% Laboratory. The "laboratory" periods are used mostly as a time for students to work on estimating assignments with individualized help available as needed.

Grading: 35% final exam, 15% quizzes, 50% written homework.

Exam Format: The final exam is an openbook estimating exercise. Students are given a basic set of house plans and they have to "estimate" the quantity of major materials required to build the house.

BBE 3503 Marketing of Bio-based Products

A-F only, 4 credit(s); Credit will not be granted if credit has been received for: BBE 5503;

Instructor: Smith, Tim

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

BBE 4001 Chemistry of Plant Materials

A-F only, 4 credit(s); prereq CHEM 2301, [jr or sr or instr consent]; Credit will not be granted if credit has been received for: BBE 5001;

Instructor: Tschirner, Ulrike Waltrau

Description: Chemistry of cellulose, hemicellulose, lignin, extractives, proteins and other plant materials. About half of course focused on fundamentals, including building blocks of these natural polymers and typical reactions. Remaining course focuses on applications related to these materials (chemicals from biomass, cellulosic ethanol, biodiesel, biodegradable plastics, rayon, papermaking fibers, etc.)

Style: 70% Lecture, 30% Discussion.

Grading: 100% other evaluation. Based on 6 quizzes, 6 homeworks, final exam

BBE 4023W Process Control and Instrumentation

A-F only, 3 credit(s); prereq Upper div IT or grad student; Credit will not be granted if credit has been received for: BBE 5023; Meets CLE req of Writing Intensive;

Instructor: Janni, Kevin A

Description: Instrumentation and control equipment and systems for monitoring and studying biological systems. Course objectives are: 1) Introduce students to instrumentation terminology, performance characteristics, uncertainty analysis, calibration and data acquisition; 2) Have students simplify dynamic process models for analysis in the S-domain using Laplace Transforms, generate model transfer functions and classify the dynamic behavior of closed-loop process systems based on their time-domain, transfer function, and frequency-domain representations; 3) Introduce students to open-loop and closed-loop control terminology, principles and equipment; 4) Introduce students to Proportional-Integral-Derivative (PID) controllers; 5) Have students analyze control system stability and performance; 6) Have students understand practical control issues and the benefits of control engineering for improving operations, safety, and environmental compliance; 7) Introduce students to sensors and instruments to measure motion, pressure, strain and temperature; 8) Have students become familiar with the principles of sensors used in the measurement of mechanical, physical and chemical parameters; 9) Have students become familiar with PC-based data acquisition equipment and its use; 10) Have students integrate their instrumentation and process control knowledge in a comprehensive written design report that explains and recommends an instrumentation and process control system.

Style: 60% Lecture, 10% Discussion, 30% Laboratory.

Grading: 20% mid exam, 10% final exam, 35% reports/papers, 15% laboratory evaluation, 20% problem solving.

Exam Format: Matching, short problems, short answer

BBE 4023W Process Control and Instrumentation

A-F only, 3 credit(s); prereq Upper div IT or grad student;
Credit will not be granted if credit has been received for:
BBE 5023; Meets CLE req of Writing Intensive;
Instructor: Janni, Kevin A
Description:

products; hands-on lab experiments including: chemical reaction kinetics, mass and energy balance during pulping, cellulose viscosity measurement, recycling of paper, flow through porous media (paper), liquid permeability, sizing test, drying (heat and mass transfer), production of composites product.

Style: 10% Lecture, 90% Laboratory.

Grading: 100% other evaluation. Based on work sheets, participation including team performance, open book final exam

BBE 4301 Surface and Colloid Science in Bio-based Products Manufacturing

3 credit(s); prereq Chem 3501, [jr or sr or instr consent];
Credit will not be granted if credit has been received for:
BBE 5301;
Instructor: Dubay, Matthew Richard
Description: Student may contact the instructor or department for information.

BBE 4404 Bio-based Composites Engineering

A-F only, 3 credit(s); prereq 3001, Chem 3501, [jr or sr or instr consent]; Credit will not be granted if credit has been received for: BBE 5404;
Instructor: Tze, William Tai Yin

Description: The class provides students with a fundamental understanding of the engineering of bio-based composites and the properties of the composite materials. Students will learn about the use of renewable bio-based resources for composites, including adhesive-bonded laminated veneer composites (e.g. plywood), thermally consolidated particle composites (e.g. strandboard and particleboard), thermoplastic matrix composites (e.g. wood-plastic composites), and bio-nanocomposites. Students will learn the design and processing aspects of bio-based composites by taking into consideration the unique structure and material properties of wood and biofibers. Using principles of polymer science, mechanics, and adhesion, students will learn to engineer and predict properties of various bio-based composites.

Style: 85% Lecture, 15% Laboratory.

Grading: 15% special projects, 5% written homework, 20% problem solving. Three exams -- 20% each.

Exam Format: Short answers and calculations.

BBE 4305 Pulp and Paper Technology

3 credit(s); prereq Jr or instr consent ;
Instructor: Tschirner, Ulrike Waltrau
Description: Student may contact the instructor or department for information.

BBE 4312 Pulp and Paper Unit Operations

4 credit(s); prereq 4305 or instr consent ;
Instructor: Ramaswamy, Shri
Description: Application of principles of momentum, heat, and mass transfer to unit operations in pulp/paper industry. Fluid transport, filtration, sheet formation, sedimentation, drainage, pressing, heat exchange, evaporation, washing, bleaching, humidification/drying, chemical/energy recovery. Computer simulation of multiple-stage systems. Online course. In pulp and paper unit operations you will learn the details of the various unit operations involved in pulp and paper manufacture. You will learn the variety of unit operations including pulping, bleaching, washing, screening and cleaning, transportation, metering and agitation, chemical recovery. In each of the process stages, we will focus on the application of the fundamental principles of mass and energy balances, fluid mechanics and heat and mass transfer. You will learn the basic principles involved and how to apply the principles in solving variety of process problems. Detailed understanding of the process is necessary to improve the energy efficiency, cost efficiency and environmental performance.

BBE 4407 Bio-based Products Manufacturing and Applications I

3 credit(s); prereq 1002 or instr consent ; Credit will not be granted if credit has been received for: BBE 5407;
Instructor: Seavey, Robert Thomas
Description:

BBE 4401 Bioproducts Engineering

A-F only, 3 credit(s); prereq [3033, CE 3502, UD] or instr consent ;
Instructor: Ramaswamy, Shri
Description: Basic principles of unit operations and their applications to bio-based products manufacturing - chemical reaction engineering, solid-liquid separation processes, solid-solid separation processes, evaporation, distillation, combustion, gasification, drying, etc. Applying unit operations and material properties to design processes and to manufacture conventional and emerging bio-based products including biofuels, bioenergy, and bio-plastics.

BBE 4414 Advanced Residential Building Science

3 credit(s); prereq 3001 or WPS 4301; Credit will not be granted if credit has been received for: BBE 5414;
Instructor: Huelman, Patrick Henry
Description: This course is intended to be an advanced course. Students are expected to be fully prepared and engaged in the content and its application. Approximately 80% of the course will be heavily structured to cover the critical content, but some time will be left for discussion. The course will give the student an excellent grasp of the key building science principles and the ability to put these principles to work in both a qualitative and quantitative manner to resolve common energy, moisture, and indoor air quality issues in residential buildings.
Style: 80% Lecture, 15% Discussion, 5% Student Presentation.
Grading: 60% mid exam, 15% written homework, 25% in-class presentation. Grades based off of percentages
Exam Format: Short answers and problems

BBE 4401 Bioproducts Engineering

A-F only, 3 credit(s); prereq [3033, CE 3502, UD] or instr consent ;
Instructor: Buthe, Andreas
Description: Basic principles of unit operations and their applications to bio-based products manufacturing - chemical reaction engineering, solid-liquid separation processes, solid-solid separation processes, evaporation, distillation, combustion, gasification, drying, etc. Applying unit operations and material properties to design processes and to manufacture conventional and emerging bio-based products including biofuels, bioenergy, and bio-plastics.

BBE 4415 Advanced Residential Building Science Lab

A-F only, 1 credit(s); prereq [[3001, 4302, 4413W] or instr consent] or [[WPS 4301, 4303, 4333] or instr consent], [4414 or WPS 4334]; Credit will not be granted if credit has been received for: BBE 5415;
Instructor: Seavey, Robert Thomas
Description: Student may contact the instructor or department for information.

BBE 4403 Bio-based Products Engineering Lab II

A-F only, 1 credit(s); prereq CHEM 2301, [jr or sr or instr consent]; Credit will not be granted if credit has been received for: BBE 5403;
Instructor: Tschirner, Ulrike Waltrau
Description: Engineering principles as they apply to bio-based

BBE 4491 Senior Topics: Independent Study

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

BBE 4501 Process and Product Design I

2 credit(s); prereq [4001, 4301, 4303, [4401 or Concurrent registration is required (or allowed) in 4401], [4403 or Concurrent registration is required (or allowed) in 4403], fr writing req, [jr or sr]] or instr consent ;

Instructor: Hu,Bo

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

BBE 4744 Engineering Principles for Biological Scientists

A-F only, 4 credit(s); prereq [Math 1142 or Math 1271], Phys 1101; intended for non engineering students; Credit will not be granted if credit has been received for: FSCN 4331;

Instructor: Morey,R Vance

Description: Intended for food and biological sciences students who are interested in understanding engineering principles applied to selected unit operations. Not intended for engineering students. Material and energy balances applied to processing systems. Principles of fluid flow, thermodynamics, heat and mass transfer applied to food and bioprocess unit operations such as pumping, heat exchange, refrigeration and freezing, drying, evaporation, and separation.

Style: 60% Lecture, 15% Discussion, 25% Laboratory.

Grading: 30% mid exam, 20% final exam, 10% quizzes, 25% laboratory evaluation, 15% problem solving.

Exam Format: Problems to work.

BBE 4744 Engineering Principles for Biological Scientists

A-F only, 4 credit(s); prereq [Math 1142 or Math 1271], Phys 1101; intended for non engineering students; Credit will not be granted if credit has been received for: FSCN 4331;

Instructor: Smith,David Eugene

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

BBE 4801H Honors Research

A-F only, 2 credit(s); prereq BP upper div honors;

Instructor: STAFF

Description: First semester of independent research project supervised by faculty member.

BBE 4900 Intern Reports

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

Instructor: Janni,Kevin A

Description: Student exposure to engineering practice through an intern program. Periodic reports on work assignments are reviewed by faculty and coordinated with industry advisors.

BBE 5001 Chemistry of Plant Materials

A-F only, 4 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: BBE 4001;

Instructor: Tschirner,Ulrike Waltrau

Description: Chemistry of cellulose, hemicellulose, lignin, extractives, proteins and other plant materials. About half of course focused on fundamentals, including building blocks of these natural polymers and typical reactions. Remaining course focuses on applications related to these materials (chemicals from biomass, cellulosic ethanol, biodiesel, biodegradable plastics, rayon, papermaking fibers, etc.)

Style: 70% Lecture, 30% Discussion.

Grading: 100% other evaluation. Based on 6 quizzes, 6 homeworks, final exam

BBE 5023 Process Control and Instrumentation

3 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: BBE 4023W;

Instructor: Janni,Kevin A

Description: Instrumentation and control equipment and systems for monitoring and studying biological systems. Course objectives are: 1) Introduce students to instrumentation terminology, performance characteristics, uncertainty analysis, calibration and data acquisition; 2) Have students simplify dynamic process models for analysis in the S-domain using Laplace Transforms, generate model transfer functions and classify the dynamic behavior of closed-loop process systems

based on their time-domain, transfer function, and frequency-domain representations; 3) Introduce students to open-loop and closed-loop control terminology, principles and equipment; 4) Introduce students to Proportional-Integral-Derivative (PID) controllers; 5) Have students analyze control system stability and performance; 6) Have students understand practical control issues and the benefits of control engineering for improving operations, safety, and environmental compliance; 7) Introduce students to sensors and instruments to measure motion, pressure, strain and temperature; 8) Have students become familiar with the principles of sensors used in the measurement of mechanical, physical and chemical parameters; 9) Have students become familiar with PC-based data acquisition equipment and its use; 10) Have students integrate their instrumentation and process control knowledge in a comprehensive written design report that explains and recommends an instrumentation and process control system.

Style: 60% Lecture, 10% Discussion, 30% Laboratory.

Grading: 20% mid exam, 10% final exam, 35% reports/papers, 15% laboratory evaluation, 20% problem solving.

Exam Format: Matching, short problems, short answer

BBE 5095 Special Problems

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

Instructor: STAFF

Description: Advanced individual-study project. Application of engineering principles to specific problem. Student may contact the instructor or department for information.

BBE 5301 Surface and Colloid Science in Bio-based Products Manufacturing

3 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: BBE 4301;

Instructor: Dubay,Matthew Richard

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

BBE 5305 Pulp and Paper Technology

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

Instructor: Tschirner,Ulrike Waltrau

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

BBE 5312 Pulp and Paper Unit Operations

4 credit(s); prereq Grad student or instr consent ;

Instructor: Ramaswamy,Shri

Description: Application of principles of momentum, heat, and mass transfer to unit operations in pulp/paper industry. Fluid transport, filtration, sheet formation, sedimentation, drainage, pressing, heat exchange, evaporation, washing, bleaching, humidification/drying, chemical/energy recovery. Computer simulation of multiple-stage systems. Online course. In pulp and paper unit operations you will learn the details of the various unit operations involved in pulp and paper manufacture. You will learn the variety of unit operations including pulping, bleaching, washing, screening and cleaning, transportation, metering and agitation, chemical recovery. In each of the process stages, we will focus on the application of the fundamental principles of mass and energy balances, fluid mechanics and heat and mass transfer. You will learn the basic principles involved and how to apply the principles in solving variety of process problems. Detailed understanding of the process is necessary to improve the energy efficiency, cost efficiency and environmental performance.

BBE 5401 Bioproducts Engineering

A-F only, 3 credit(s); prereq Grad student or instr consent ;

Instructor: Ramaswamy,Shri

Description: Basic principles of unit operations and their applications to bio-based products manufacturing - chemical reaction engineering, solid-liquid separation processes, solid-solid separation processes, evaporation, distillation, combustion, gasification, drying, etc. Applying unit operations and material properties to design processes and to manufacture

conventional and emerging bio-based products including biofuels, bioenergy, and bio-plastics.

BBE 5401 Bioproducts Engineering

A-F only, 3 credit(s); prereq Grad student or instr consent ; Instructor: Buthe,Andreas

Description: Basic principles of unit operations and their applications to bio-based products manufacturing - chemical reaction engineering, solid-liquid separation processes, solid-solid separation processes, evaporation, distillation, combustion, gasification, drying, etc. Applying unit operations and material properties to design processes and to manufacture conventional and emerging bio-based products including biofuels, bioenergy, and bio-plastics.

BBE 5403 Bio-based Products Engineering Lab II

A-F only, 1 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for:

BBE 4403;

Instructor: Tschirner,Ulrike Waltrau

Description: Engineering principles as they apply to bio-based products; hands-on lab experiments including: chemical reaction kinetics, mass and energy balance during pulping, cellulose viscosity measurement, recycling of paper, flow through porous media (paper), liquid permeability, sizing test, drying (heat and mass transfer), production of composites product.

Style: 10% Lecture, 90% Laboratory.

Grading: 100% other evaluation. Based on work sheets, participation including team performance, open book final exam

BBE 5404 Bio-based Composites Engineering

A-F only, 3 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for:

BBE 4404;

Instructor: Tze,William Tai Yin

Description: The class provides students with a fundamental understanding of the engineering of bio-based composites and the properties of the composite materials. Students will learn about the use of renewable bio-based resources for composites, including adhesive-bonded laminated veneer composites (e.g. plywood), thermally consolidated particle composites (e.g. strandboard and particleboard), thermoplastic matrix composites (e.g. wood-plastic composites), and bio-nanocomposites. Students will learn the design and processing aspects of bio-based composites by taking into consideration the unique structure and material properties of wood and biofibers. Using principles of polymer science, mechanics, and adhesion, students will learn to engineer and predict properties of various bio-based composites.

Style: 85% Lecture, 15% Laboratory.

Grading: 15% special projects, 5% written homework, 20% problem solving. Three exams -- 20% each.

Exam Format: Short answers and calculations.

BBE 5407 Bio-based Products Manufacturing and Applications I

3 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: BBE 4407;

Instructor: Seavey,Robert Thomas

Description:

BBE 5414 Advanced Residential Building Science

3 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: BBE 4414;

Instructor: Huelman,Patrick Henry

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

BBE 5415 Advanced Residential Building Science Lab

A-F only, 1 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for:

BBE 4415;

Instructor: Seavey,Robert Thomas

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

BBE 5503 Marketing of Bio-based Products

A-F only, 4 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for:

BBE 3503;

Instructor: Smith,Tim

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

BBE 5513 Watershed Engineering

A-F only, 3 credit(s); prereq 3023, upper div IT;

Instructor: Wilson,Bruce Nord

Description: Class URL:

<https://wiki.umn.edu/view/Wilson/WatershedEngineering>

Students will apply engineering principles in the management and design of hydrologic and surface water quality systems. Specific objectives are to understand and use: 1) Hydrologic analysis techniques for small watersheds; 2) Design techniques for small reservoirs and detention ponds for reducing peak flow rates and sediment concentrations; 3) Design techniques of surface water conveyance systems.

Style: 60% Lecture, 20% Laboratory, 15% Small Group Activities, 5% Field Trips.

Grading: 25% mid exam, 35% final exam, 25% special projects, 15% written homework.

Exam Format: Open book problems

BBE 5513 Watershed Engineering

A-F only, 3 credit(s); prereq 3023, upper div IT;

Instructor: Wilson,Bruce Nord

Description: Application of engineering principles to managing surface runoff from agricultural, range, and urban watersheds. Design of facilities and selection of land use practices for controlling surface runoff to mitigate problems of flooding and degradation of surface-water quality.

Style: 60% Lecture, 20% Laboratory, 15% Small Group Activities, 5% Field Trips.

Grading: 25% mid exam, 35% final exam, 25% special projects, 15% problem solving.

BBE 5533 Assessment and Diagnosis of Impaired Waters

A-F only, 3 credit(s); prereq [CHEM 1022, BIOL 1009, FR 3114 or CE 4501, 5513] or instr consent ;

Instructor: Magner,Joe

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

BBE 8001 Seminar

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

Instructor: Sarkanen,Simo

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

BBE 8013 Parameter Estimation in Biosystems and Agricultural Engineering

A-F only, 3 credit(s); prereq Stat 3021 or equiv, computer programming course;

Instructor: Wilson,Bruce Nord

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

BBE 8300 Research Problems

1-10 credit(s), max credits 10, 10 completions allowed;

prereq instr consent;

Instructor: Seavey,Robert Thomas

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

BBE 8300 Research Problems

1-10 credit(s), max credits 10, 10 completions allowed;

prereq instr consent;

Instructor: Wilson,Bruce Nord

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

BBE 8300 Research Problems

1-10 credit(s), max credits 10, 10 completions allowed;

prereq instr consent;**Instructor:** Severtson, Steve John**Description:** Student may contact the instructor or department for information.**BBE 8300 Research Problems****1-10 credit(s), max credits 10, 10 completions allowed;****prereq instr consent;****Instructor:** 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;****prereq instr consent;****Instructor:** Tschirner, Ulrike Waltrau**Description:** Student may contact the instructor or department for information.**BBE 8300 Research Problems****1-10 credit(s), max credits 10, 10 completions allowed;****prereq instr consent;****Instructor:** Ramaswamy, Shri**Description:** Student may contact the instructor or department for information.**BBE 8300 Research Problems****1-10 credit(s), max credits 10, 10 completions allowed;****prereq instr consent;****Instructor:** Zhu, Jun**Description:** Student may contact the instructor or department for information.**BBE 8300 Research Problems****1-10 credit(s), max credits 10, 10 completions allowed;****prereq instr consent;****Instructor:** Petersen, Harlan D**Description:** Student may contact the instructor or department for information.**BBE 8300 Research Problems****1-10 credit(s), max credits 10, 10 completions allowed;****prereq instr consent;****Instructor:** Huelman, Patrick Henry**Description:** Student may contact the instructor or department for information.**BBE 8300 Research Problems****1-10 credit(s), max credits 10, 10 completions allowed;****prereq instr consent;****Instructor:** Grimsrud, David Theodore**Description:** Student may contact the instructor or department for information.**BBE 8300 Research Problems****1-10 credit(s), max credits 10, 10 completions allowed;****prereq instr consent;****Instructor:** Smith, Tim**Description:** Student may contact the instructor or department for information.**BBE 8300 Research Problems****1-10 credit(s), max credits 10, 10 completions allowed;****prereq instr consent;****Instructor:** Tze, William Tai Yin**Description:** Student may contact the instructor or department for information.**BBE 8300 Research Problems****1-10 credit(s), max credits 10, 10 completions allowed;****prereq instr consent;****Instructor:** Wang, Ping**Description:** Student may contact the instructor or department for information.**BBE 8300 Research Problems****1-10 credit(s), max credits 10, 10 completions allowed;****prereq instr consent;****Instructor:** Schilling, Jonathan Scott**Description:** Student may contact the instructor or department for information.**Business Administration****1-505 Carlson School of Management****BA 999 Immersion Core****A-F only, 12 credit(s); prereq ACCT 2050, OMS 2550, Carlson School [soph or jr];****Instructor:** Buchner, Thomas Wayne**Description:** Student may contact the instructor or department for information.**BA 1910W Freshman Seminar, WI: Risky Business****A-F only, 3 credit(s), max credits 9, 3 completions allowed;****prereq freshman; Meets CLE req of Writing Intensive;****Instructor:** Whitman, Andrew Franklin**Description:** Student may contact the instructor or department for information.**BA 3000 Career Skills****S-N only, 1 credit(s); prereq CSOM soph or upper div major;****Instructor:** Nelson, Elaine W**Description:** Student may contact the instructor or department for information.**BA 3000 Career Skills****S-N only, 1 credit(s); prereq CSOM soph or upper div major;****Instructor:** Sawyer, Brooke**Description:** Required for all Carlson School students, this course focuses on career discovery and tactical preparation for the internship and career searches. In this course you will: 1. Clarify personal interests, values, skills and abilities and learn the importance of self-assessment and self-awareness in identifying career options. 2. Develop professional resumes, cover letters and correspondence. 3. Develop a contact network and understand how to engage your network in the career planning process. 4. Understand and utilize professional business etiquette. 5. Research organizations to better prepare for interviews and company interactions, as well as to determine your best organizational "fit". 6. Interview effectively, with specific emphasis on how to convey your background, skills, career goals and the value you bring to an organization. 7. Access internship, part-time and full-time employment opportunities. 8. Understand employment trends and their effect on career options. 9. Develop an overall career search strategy We advise all students to take this course during the sophomore year, ideally during the fall semester.**BA 3000 Career Skills****S-N only, 1 credit(s); prereq CSOM soph or upper div major;****Instructor:** Sullivan, Mackenzie**Description:** Required for all Carlson School students, this course focuses on career discovery and tactical preparation for the internship and career searches. In this course you will: 1. Clarify personal interests, values, skills and abilities and learn the importance of self-assessment and self-awareness in identifying career options. 2. Develop professional resumes, cover letters and correspondence. 3. Develop a contact network and understand how to engage your network in the career planning process. 4. Understand and utilize professional business etiquette. 5. Research organizations to better prepare for interviews and company interactions, as well as to determine your best organizational "fit". 6. Interview effectively, with specific emphasis on how to convey your background, skills, career goals and the value you bring to an organization. 7. Access internship, part-time and full-time employment opportunities. 8. Understand employment trends and their effect on career options. 9. Develop an overall career search strategy We advise

all students to take this course during the sophomore year, ideally during the fall semester.

BA 3000 Career Skills

S-N only, 1 credit(s); prereq CSOM soph or upper div major;

Instructor: Selby, Katie M

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

BA 3000 Career Skills

S-N only, 1 credit(s); prereq CSOM soph or upper div major;

Instructor: Opall, Brent S

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

BA 3000 Career Skills

S-N only, 1 credit(s); prereq CSOM soph or upper div major;

Instructor: Bartels, Christiane A

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

BA 3000 Career Skills

S-N only, 1 credit(s); prereq CSOM soph or upper div major;

Instructor: Beck, Sheri A

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

BA 3000 Career Skills

S-N only, 1 credit(s); prereq CSOM soph or upper div major;

Instructor: Kruzic, Melody Jennings

Description: Required for all Carlson School students, this course focuses on career discovery and tactical preparation for the internship and career searches. In this course you will: 1. Clarify personal interests, values, skills and abilities and learn the importance of self-assessment and self-awareness in identifying career options. 2. Develop professional resumes, cover letters and correspondence. 3. Develop a contact network and understand how to engage your network in the career planning process. 4. Understand and utilize professional business etiquette. 5. Research organizations to better prepare for interviews and company interactions, as well as to determine your best organizational "fit". 6. Interview effectively, with specific

emphasis on how to convey your background, skills, career goals and the value you bring to an organization. 7. Access internship, part-time and full-time employment opportunities. 8. Understand employment trends and their effect on career options. 9. Develop an overall career search strategy We advise all students to take this course during the sophomore year, ideally during the fall semester.

BA 3999 Internship Seminar

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

Instructor: Surprenant, Tess Marie

Description: BA 3999 is a one-credit independent study course to be taken the semester during, or the semester directly following the student's internship. The internship must be at least 10 hours per week. The course includes a series of readings and reflection papers around specific topics and will draw on your actual internship experiences. There is a final paper as well as a mandatory meeting with the instructor. Note: Interested students must fill out an "internship documentation" form with their internship supervisor and submit it to the Undergraduate Business Career Center at the Carlson School, prior to being allowed to register for the course.

BA 4501 Carlson Funds Enterprise: Growth

OPT No Aud, 3 credit(s), max credits 6; prereq Concurrent registration is required (or allowed) in MBA 6501, CSOM [jr or sr], approved application;

Instructor: Nantell, Timothy J

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

BA 4502 Carlson Funds Enterprise: Fixed Income

OPT No Aud, 3 credit(s), max credits 6; prereq Concurrent registration is required (or allowed) in MBA 6502, CSOM [jr or sr], approved application;

Instructor: Parr, Jeannette

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; prereq Concurrent registration is required (or allowed) in MBA 6503, CSOM [jr or sr], approved application;

Instructor: Nord, Tobin Lawrence

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

BA 4504 Carlson Consulting Enterprise

OPT No Aud, 3 credit(s), max credits 6; prereq Concurrent registration is required (or allowed) in MBA 6504, CSOM [jr or sr], approved application;

Instructor: Miller, Philip Jordan

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

BA 4505 Brands Enterprise

OPT No Aud, 3 credit(s), max credits 6; prereq Concurrent registration is required (or allowed) in MBA 6505, CSOM [jr or sr], approved application;

Instructor: Hopkins, David K

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

BA 4991H Honors Thesis Seminar II

A-F only, 2 credit(s); prereq 4990H, CSOM honors, sr;

Instructor: Manchester, Colleen Flaherty

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

Business Law
3-110 CarlSMgmt

BLAW 3058 The Law of Contracts and Agency**A-F only, 4 credit(s); prereq 40 or more credits;****Instructor:** Kramer,John Theodore**Description:** Student may contact the instructor or department for information.**BLAW 3058 The Law of Contracts and Agency****A-F only, 4 credit(s); prereq 40 or more credits;****Instructor:** Campbell,Donald G**Description:** Student may contact the instructor or department for information.**Business and Industry Education****330 Wulling Hall****BIE 1396 Supervised Career and Technical Education Teaching****S-N only, 4 credit(s); prereq college consent;****Instructor:** Stertz EdD, Tom**Description:** This course is a supervised teaching experience for beginning on-the-job and pre-service instructors in Career and Technical Education. The course can be used to satisfy the Minnesota Secondary Career and Technical Teacher licensure requirement. The course is delivered in an individualized mode with the U of M instructor acting as a supervisor and resource person. An on-site career and technical instructor or supervisor will also serve as a mentor. All work agreed upon by the student and the BIE 1396 instructor.**BIE 3061 Professional Sales Management****A-F only, 3 credit(s);****Instructor:** Mueller,Wayne G**Description:** Student may contact the instructor or department for information.**BIE 3061 Professional Sales Management****A-F only, 3 credit(s);****Instructor:** Richardson,Tiffany**Description:** Student may contact the instructor or department for information.**BIE 3151 Technical Development: Advanced****1-32 credit(s), max credits 32, 12 completions allowed;****prereq instr consent ;****Instructor:** Stertz EdD, Tom**Description:** Individualized advanced technical development in construction, communication technology, manufacturing, power and energy, and transportation.**BIE 5001 Teaching Marketing Promotion****A-F only, 3 credit(s);****Instructor:** Gaddey,Roy Arthur**Description:** Student may contact the instructor or department for information.**BIE 5011 Introduction to Computer Applications****3 credit(s);****Instructor:** Borup,Tracey Littlefield**Description:** Student may contact the instructor or department for information.**BIE 5011 Introduction to Computer Applications****3 credit(s);****Instructor:** Feyissa,Solen Desalegn**Description:** Student may contact the instructor or department for information.**BIE 5012 Advanced Word Processing****3 credit(s); prereq 5011 or equiv;****Instructor:** Horazdovsky,Jerry Edwa**Description:** Student may contact the instructor or department for information.**BIE 5013 Spreadsheet Analysis Using Computers****3 credit(s); prereq 5011 or equiv;****Instructor:** Noyes,Jeffrey Paul**Description:** Student may contact the instructor or department for information.**BIE 5014 Database Computer Applications****3 credit(s); prereq 5011 or equiv;****Instructor:** Cherry,Jennifer E**Description:** Business needs for computerized databases. Using database software to develop, maintain, and prepare reports.**Style:** 10% Lecture, 10% Discussion, 25% Laboratory, 10% Small Group Activities, 5% Student Presentation, 35% Demonstration, 5% Guest Speakers.**Grading:** 20% mid exam, 20% final exam, 20% special projects, 15% laboratory evaluation, 25% problem solving.**BIE 5015 Integrated Computer Applications in Business and Marketing Education****3 credit(s); prereq [5011, 5012, 5013, 5014] or equiv;****Instructor:** Anderson,Michelle Marie**Description:** This course is intended to engage ADVANCED students in the use of realistic business microcomputer problems requiring the integration of two or more application packages. While completing these problems, consideration will be given to the pedagogical issues of both learning advanced microcomputer application capabilities, and teaching similar applications to designated groups of learners.**Style:** 25% Lecture, 75% Laboratory.**Grading:** 15% mid exam, 15% final exam, 10% in-class presentation, 10% class participation, 50% laboratory evaluation.**Exam Format:** Computer problem-solving**BIE 5151 Technical Development: Specialized****A-F only, 1-12 credit(s), max credits 12, 12 completions****allowed; prereq instr consent;****Instructor:** Stertz EdD, Tom**Description:** Students select and study technical processes and principles based on the particular subject matter areas they plan to teach. Experiences allow students to integrate specialized technical instruction in advanced and emerging areas.**BIE 5452 Methods of Teaching Business and Marketing Concepts****A-F only, 3 credit(s);****Instructor:** Horazdovsky,Jerry Edwa**Description:** Student may contact the instructor or department for information.**BIE 5463 Methods in Teaching Keyboarding and Word Processing****A-F only, 2 credit(s);****Instructor:** Cherry,Jennifer E**Description:****Style:** 25% Lecture, 25% Discussion, 25% Small Group Activities, 10% Student Presentation, 5% Demonstration, 10% Guest Speakers.**Grading:** 20% mid exam, 20% final exam, 20% reports/papers, 20% special projects, 20% in-class presentation.**BIE 5596 Occupational Experience in Business and Industry****S-N only, 1-10 credit(s), max credits 10, 1 completion****allowed; prereq instr consent;****Instructor:** Anderson,Orkideh M.**Description:** Student may contact the instructor or department for information.**BIE 5597 Internship: Business and Industry Education****S-N only, 1-8 credit(s), max credits 12, 12 completions****allowed; prereq instr consent;****Instructor:** Anderson,Orkideh M.**Description:** Student may contact the instructor or department for information.**BIE 5796 Field Based Projects in Business and Industry**

S-N only, 1-4 credit(s), max credits 4, 1 completion allowed;

Instructor: Stertz EdD, Tom

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

BIE 5993 Directed Study in Business and Industry

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

Instructor: Stertz EdD, Tom

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

Center for Learning Innovation

CLI 1711 Introduction to Health Sciences I

S-N only, 1 credit(s); prereq fr in Bachelor of Science in Health Sciences (BSHS) Only Rochester-admitted students will be able to enroll in this course.;

Instructor: Dunbar, Robert Lee

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. Topics include: 1. what is health and well being? 2. cultural constructs of health and well being; 3. fundamental principles and proven measures of holistic health that promote health and well being; 4. practical application and integration of holistic health into daily personal life for optimal health and well-being. Class will be interactive and students will reflect on the application of the principles to their daily lives as journaling assignments each week; a key component of class is understanding how we can be more balanced as students in US society. The text will be Integral Healing by Elliott Dacher, 2006; additional readings will be from the CSpH website modules and other websites.

Style: 50% Lecture, 50% Discussion. Most classes will present information and students will discuss/reflect on it in class groups

Grading: 85% written homework, 15% reflection paper. Final journal reflection is a paper discussing key learnings of the semester

Exam Format: No exams

CSPH 1101 Self, Society, and Environment: An Integral Systems Approach to Personal Wellbeing and Engagement
3 credit(s);

Instructor: Brady, Linda J

Description: Students will study the internal and external systems which influence their lives and health using science, complexity theory, and various world views. They will examine the interrelated workings of mind and body and explore a variety of means of bringing these into dynamic balance. They will examine the variety of environmental and social systems in which they participate, once again combining theory, experience, and reflection to explore the optimal functioning of these systems, for individuals and the collective whole. In addition to applying their learning within the realm of personal wellbeing, students will learn to be social entrepreneurs, bringing health and balance to the social and environmental systems in which they participate.

Style: 25% Lecture, 50% Discussion, 25% Small Group Activities.

Grading: 75% written homework, 15% reflection paper, 10% class participation. Class format will be to prepare via written assignments, discuss in small and large groups, then send in homework based on both reading and class discussion for the

week

CSPH 3201 Introduction to Mindfulness-Based Stress

Reduction

2 credit(s);

Instructor: Storlie, Erik Fraser

Description: The class will introduce students to a variety of techniques by which the stress endemic in a fast-paced competitive culture can be both reduced, as well as worked with constructively. Students will engage in both experiential and intellectual learning. They will practice and apply techniques of stress-reduction through "mindfulness" - the steady, intentional gathering of a non-judgmental awareness into the present moment in various activities. They will also think critically as they study and evaluate recent medical-scientific literature on the physiological and psychological elements in the stress response.

CSPH 5101 Introduction to Complementary Healing Practices

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

Instructor: Culliton, Patricia D

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

CSPH 5102 Art of Healing: Self as Healer

1 credit(s); prereq Jr or sr or grad student or instr consent;

Instructor: Towey, Sue Mary

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

CSPH 5102 Art of Healing: Self as Healer

1 credit(s); prereq Jr or sr or grad student or instr consent;

Instructor: Gorman, Rebecca Sue

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

CSPH 5111 Ways of Thinking about Health

S-N only, 2 credit(s), max credits 4; prereq Jr or sr or grad student or instr consent ; instructor permission required for second enrollment in course;

Instructor: Hassel, Craig Alan

Description: CSPH 5111 ?Ways of Thinking About Health? offers students a rare opportunity to explore diverse cultural contexts through field-trip immersion experiences. In this course, we will explore fundamental aspects of several different health-care systems, including Indigenous North American Medicine, Vedic Medicine, Traditional Chinese Medicine and biomedicine. The field-trip learning serves as a micro-cultural immersion experience for the purpose of helping students to understand different worldviews and systems of knowledge that do not correspond to a scientific model. The course is based upon the idea that thinking about different worldviews and healing systems from a detached, survey perspective is a quite different matter than thinking critically within the system being explored to attain deeper learning. Each field trip experience will be followed by a writing assignment, where the student will write on a health care issue of their choice, but from within the perspective of the system being studied. This approach is designed to allow each student the maximum opportunity to explore, experience, appreciate and articulate the cultural diversity in ways of thinking about health.

Style: 20% Lecture, 30% Discussion, 50% Field Trips.

Grading: 70% reflection paper, 30% in-class presentation.

CSPH 5111 Ways of Thinking about Health

S-N only, 2 credit(s), max credits 4; prereq Jr or sr or grad student or instr consent ; instructor permission required for second enrollment in course;

Instructor: Silva,Dane D

Description: CSPH 5111 ?Ways of Thinking About Health? offers students a rare opportunity to explore diverse cultural contexts through field-trip immersion experiences. In this course, we will explore fundamental aspects of several different health-care systems, including Indigenous North American Medicine, Vedic Medicine, Traditional Chinese Medicine and biomedicine. The field-trip learning serves as a micro-cultural immersion experience for the purpose of helping students to understand different worldviews and systems of knowledge that do not correspond to a scientific model. The course is based upon the idea that thinking about different worldviews and healing systems from a detached, survey perspective is a quite different matter than thinking critically within the system being explored to attain deeper learning. Each field trip experience will be followed by a writing assignment, where the student will write on a health care issue of their choice, but from within the perspective of the system being studied. This approach is designed to allow each student the maximum opportunity to explore, experience, appreciate and articulate the cultural diversity in ways of thinking about health.

Style: 20% Lecture, 30% Discussion, 50% Field Trips.

Grading: 70% reflection paper, 30% in-class presentation.

CSPH 5211 Peacemaking and Spirituality: A Journey Toward Healing and Strength

A-F only, 2-3 credit(s), max credits 3, 1 completion allowed; prereq Jr or sr or grad student or instr consent ;

Instructor: Umbreit,Mark S

Description: This course is designed to provide a basic understanding of the central elements of peacemaking and spirituality in the context of various healthcare and social work settings. Examples include intense interpersonal conflicts between patients/providers, between nurses/social workers, between coworkers; within families and within communities; among friends and within ourselves. This course has 2-credit and 3-credit options. Students in the 3-credit option would go deeper into the subject matter to gain understanding of practices that contribute to peacemaking and spirituality that are grounded in diverse cultural traditions among indigenous people of the world and an understanding of the strengths and significant limitations of the dominant theory and practice of conflict resolution and mediation in Western European culture.

CSPH 5225 Meditation: Integrating Body and Mind

2 credit(s); prereq Jr or sr or grad student or instr consent;

Instructor: Storlie,Erik Fraser

Description: Description: The class approaches meditation as a physical, emotional, intellectual, and spiritual inquiry. Students read selections in a variety of relevant texts and develop the ability to enter a state of calm, meditative awareness. Objectives: Students will 1. demonstrate an understanding of the intellectual background of meditation, reading sources from the mainstream religious traditions of East and West, from indigenous sources, from contemporary practitioners, and from current scientific work linking meditation with wellness; 2. demonstrate the ability to assume a strong, stable, and relaxed physical posture sitting on cushions, benches, or chairs; 3. demonstrate the ability to calm the breath through a focus on deep, diaphragm breathing; 4. demonstrate the ability to dwell in steady consciousness of consciousness itself, allowing emotions and thoughts to rise and fall in calm awareness; 5. describe and discuss some of the many scientific, philosophical, existential, and spiritual questions that arise concerning the nature of human consciousness.

CSPH 5301 Cultures, Faith Traditions, and Health Care

A-F only, 2 credit(s); prereq Jr or sr or grad student or instr consent;

Instructor: Berg,David F

Description: This course, which is open to all AHC students and seminarians, examines the cultural and spiritual implications of health care practices of selected native and immigrant populations in Minnesota. The course focuses on the clinical

implications of these practices and addresses the inherent personal and professional conflicts for delivery of competent care to culturally/spiritually diverse groups by those trained in the Western health care system. This course requires students to meet with and participate as much as possible with another culture.

CSPH 5315 Traditional Tibetan Medicine: Ethics, Spirituality, and Healing

2 credit(s); prereq Jr or sr or grad student or instr consent;

Instructor: Cameron PhD,Miriam Elaine

Description: This course will introduce students to ethics, spirituality, and healing from the perspective of traditional Tibetan medicine. Traditional Tibetan doctors believe that illness results from imbalance and that treating illness requires correcting the underlying imbalance. Students will learn how to apply these principles personally, integrate them into clinical practice, and consult with a traditional Tibetan doctor. Part of 3 course sequence with CSPH 5317 - "Yoga: Ethics, Spirituality, and Healing" (Sum); CSPH 5318 - "Tibetan Medicine, Ayurveda, and Yoga in India" (May Session). CSPH 5315 and CSPH 5317 are prerequisites for CSPH 5318. Info? 612.624.5166 or URL below.

Style: 35% Lecture, 10% Film/Video, 25% Discussion, 15% Student Presentation, 15% Guest Speakers. The 10 classes meet on Wednesdays, from 4:40-7: 30 p.m.

Grading: 70% reports/papers, 30% journal. Students may take the course A-F, S-N, or Audit, in person or as a distance student.

Exam Format: No exams.

CSPH 5331 Foundations of Shamanism and Shamanic Healing S-N only, 2 credit(s); prereq Jr or sr or grad student or instr consent;

Instructor: Lawson MD,Karen Lynn

Description: In this fundamentals course, students will learn essential elements of the non-biomedical shamanic "life-way" at the foundation of all shamanism. Participants will study shamanic beliefs about the individual's role in life, community, and the universe, and how these ideas are at the core of all shamanic healing practices. They will study cross-cultural healing beliefs and practices, the unique psychology necessary to understand them, and how these approaches may be used with contemporary healing practices and for personal growth. This course provides a core understanding of shamanic philosophies and ritual etiquette, properly preparing students to continue in deeper personal study and/or to participate in an experiential cultural immersion (e.g. via a Global Healing Traditions course.)

CSPH 5401 People, Plants, and Drugs: Introduction to Ethnopharmacology

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

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 ethnopharmacological 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.

Grading: 10% mid exam, 10% final exam, 20% written homework, 20% journal, 20% in-class presentation, 20% class participation.

CSPH 5405 Plants in Human Affairs

4 credit(s); prereq Jr or sr or grad student or instr consent; Instructor: McKenna PhD, Dennis Jon

Description: This 12-day, intensive course taught in Hawaii introduces students to the science of ethnobotany, ethnopharmacology, and plants in human affairs through lectures, field trips and presentations by local experts. This introductory course will focus on the role of plants in human affairs. The course will include a combination of topics relevant to ethnobotany and ethnopharmacology. The ethnobotanical portion will emphasize the importance of plants in the modern world, and on the influence of plant/people interactions in the evolution of civilizations and cultures, migrations of peoples and plants, cross-cultural contacts, wars, genocide, art, mythology, and religion, as well as topics on the traditional uses of plants by indigenous peoples. 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 the human use of biologically active plants and animals as medicines, poisons, and "recreational" or ritual intoxicants. 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 ethnopharmacological investigations in the process of drug discovery and the evolution of medicine, and to develop a cross-cultural perspective on human interactions with drugs and toxins.

Grading: 25% final exam, 20% quizzes, 15% written homework, 15% journal, 10% reflection paper, 15% in-class presentation.

CSPH 5421 Botanical Medicines in Complementary Healthcare

3 credit(s); prereq Jr or sr or grad student or instr consent; Instructor: McKenna PhD, Dennis Jon

Description: The growing interest and acceptance of complementary and alternative medicine (CAM) by physicians and other practitioners in the medical community has been accompanied by an information deficit. Many practitioners are not familiar with complementary therapies, and know little about their therapeutic rationale, efficacy (or lack thereof), potential applications, or potential hazards, even though their patients may utilize such therapies. This is particularly the case when it comes to the use of botanical medicines and dietary supplements. Botanical dietary supplements are widely sold, both promoted and denounced in the media, and increasingly popular, yet many health care providers are uninformed about them. Often, patients use botanical supplements without the knowledge of their health care providers; in turn, practitioners lack of knowledge makes it difficult to advise patients regarding their uses, and possible safety concerns. In many instances, botanical medicines may be viable alternatives to conventional pharmaceuticals, yet many practitioners are unaware of these alternatives or reluctant to advise their patients on their use. This course is designed to address this information deficit, by providing health care professionals with the knowledge base required to provide informed advice to patients, and in instances where appropriate, to utilize botanical supplements in their own practice. This course will focus primarily on the most popular and widely used botanical medicines. The information will be presented from a biomedical perspective, although discussions

of alternative therapeutic systems, such as Traditional Chinese Medicine (TCM) or Ayurvedic Medicine, also will be included to provide balance. Students will be introduced to information resources pertinent to the use of botanical medicines, and there will be discussion of how this topic is treated in both the scientific literature and the popular press. The botanical characteristics, traditional uses, and chemical properties of the active constituents will also be covered. Evidence for therapeutic applications, appropriate uses, potential hazards, dosage, drug interactions and other safety considerations, will be presented. Quality control issues in the manufacture of botanical supplements, and the regulatory environment governing the manufacture and sale of botanical supplements, will be addressed. The applications of particular botanical medicines will be discussed and related to required and recommended readings and online resources; emphasis will be placed on information derived from clinical and pre-clinical studies published in current scientific literature. The information presented will be organized according to bodily systems and processes affected, e.g. the immune system, the cardiovascular system, etc.

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

CSPH 5505 Foundations of Homeopathic Practice

S-N only, 1 credit(s); prereq Jr or sr or grad student; designed for students in health sciences or practicing health professionals;

Instructor: Annes, Debra Sax

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

CSPH 5511 Interdisciplinary Palliative Care: An Experiential Course in a Community Setting

2 credit(s); prereq instr consent ;

Instructor: STAFF

Description: Multidisciplinary teams of course participants will partner with interdisciplinary community hospice teams. They will participate in the delivery of care to patients in a variety of settings. This course will also include a series of seminars, employing self-analysis and case studies to further the participants' appreciation of and expertise in palliative care.

CSPH 5522 Therapeutic Horticulture

3 credit(s); prereq 5101 or Hort 5072 or instr consent;

Instructor: Larson, Jean Marie

Description: This course is designed to provide an evidence-based understanding of the central elements of therapeutic horticulture in the context of multiple health care settings. Students will learn the history, principles, precepts, and practical application of therapeutic horticulture. At each session students will investigate the current research of therapeutic horticulture as treatment intervention in relation to various target populations. These findings will be analyzed and synthesized as it pertains to the focus of target population.

CSPH 5533 Introduction to Energy Healing

2 credit(s); prereq Jr or sr or grad student or instr consent ;

Instructor: STAFF

Description: This course will introduce students to healing techniques that use energetic systems in the body to enhance the body's ability to heal. Therapeutic Touch, Healing Touch, Reiki, acupuncture, reflexology, magnets, homeopathy, and many other modalities will be explored. Scientific theories explaining the mechanisms of energetic medicine and ways to measure energy will be investigated. Students will interact with practitioners of energy healing and describe the outcomes of such a practice.

CSPH 5535 Reiki Healing

S-N only, 1 credit(s); prereq Jr or sr or grad student or instr consent ;

Instructor: Ringdahl, Deborah Rene

Description: Students will learn the history, principles, precepts, and practical application of Reiki energy healing. Alternative energy healing modalities and current research findings will be

discussed. Following activation of the Reiki energy, participants will learn the hand positions used to perform a treatment. A portion of each class meeting will be used to provide Reiki treatments and to discuss findings.

CSPH 5541 Emotional Healing and Happiness: Eastern and Western Approaches to Transforming the Mind

2 credit(s); prereq Sr or grad student or instr consent;
Instructor: Young, Merrra Lee
Description: Student may contact the instructor or department for information.

CSPH 5601 Music, Health and Healing

2 credit(s); prereq Jr or sr or grad student or instr consent;
Instructor: Heiderscheit PhD, Annie Lynne
Description: This course provides an in-depth exploration of the music in medicine, including music therapy, music medicine and music psychotherapy practices, techniques and interventions. There will be explication of the hypotheses and rationale related to interventions, and an exploration of related research.

CSPH 5701 Fundamentals of Health Coaching I

A-F only, 4 credit(s); prereq Admitted to Complementary Therapies and Healing Practice certificate program's health coaching track or instr consent ;
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 5703 Advanced Health Coaching Practicum

A-F only, 3 credit(s); prereq 5101, 5102, 5701, 5702, admitted to Postbaccalaureate Certificate in Complementary Therapies/Healing Practices Health Coaching Track;
Instructor: Pelton, Maureen A
Description: Student may contact the instructor or department for information.

CSPH 5704 Business of Health Coaching

A-F only, 1 credit(s); prereq 5101, 5102, 5701, 5702, admitted to postbaccalaureate certificate in complementary therapies/healing practices health coaching track;
Instructor: McCormick, RN, MNH, Lisa
Description: Student may contact the instructor or department for information.

CSPH 8191 Independent Study in Complementary Therapies and Healing Practices

1-6 credit(s), max credits 6, 1 completion allowed; prereq instr consent ;
Instructor: Cameron PhD, Miriam Elaine
Description: Student may contact the instructor or department for information.

CSPH 8191 Independent Study in Complementary Therapies and Healing Practices

1-6 credit(s), max credits 6, 1 completion allowed; prereq instr consent ;
Instructor: McKenna PhD, Dennis Jon
Description: Student may contact the instructor or department for information.

Chemical Engineering

151 Amundson Hall

CHEN 1001 Advances in Chemical Engineering and Materials Science

S-N only, 1 credit(s), max credits 2, 1 completion allowed;
prereq Recommended for [chemical engineering, materials science/engineering] majors; Credit will not be granted if credit has been received for: MATS 1001;
Instructor: Holmes, Russell James

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

CHEN 2001 Material and Energy Balances

A-F only, 4 credit(s); prereq [CHEM 2301 or Concurrent registration is required (or allowed) in CHEM 2301], [MATH 2374 or Concurrent registration is required (or allowed) in MATH 2374 or equiv], [PHYS 1302 or Concurrent registration is required (or allowed) in PHYS 1302];
Instructor: Dorfman, Kevin
Description: Student may contact the instructor or department for information.

CHEN 3005 Transport Phenomena: Momentum and Heat

A-F only, 4 credit(s); prereq [4001 or 2001 or [transfer student, dept consent]], upper div ChEn major;
Instructor: Smyrl, William H
Description: Student may contact the instructor or department for information.

CHEN 3041 Industrial Assignment I

A-F only, 2 credit(s); prereq ChEn upper Div, completion of required courses in ChEn prog through fall sem of 3rd yr, GPA of at least 2.80, registered in co-op prog; Credit will not be granted if credit has been received for: MATS 3041;
Instructor: Shores, David A
Description: Student may contact the instructor or department for information.

CHEN 3045 Chemical Engineering Industrial Internship

A-F only, 1 credit(s), max credits 2; prereq Plan approved by [supervisor, faculty internship co-op coordinator], report signed by industrial supervisor describing engineering work completed;
Instructor: Shores, David A
Description: Student may contact the instructor or department for information.

CHEN 3101 Chemical Engineering Thermodynamics

A-F only, 4 credit(s); prereq [[2001 or 4001 or [CHEM 3501, transfer student]], [upper div ChEn major or dept consent] credit will not be granted if credit already received for: ChEn 4101;
Instructor: Kokkoli, Efi
Description: Student may contact the instructor or department for information.

CHEN 3701 Introduction to Biomolecular Engineering

A-F only, 3 credit(s); prereq [4001 or equiv], [Chem 2302 or Concurrent registration is required (or allowed) in Chem 2302], [Math 2373 or equiv]; high school biology recommended;
Instructor: Hu, Wei-Shou
Description: Student may contact the instructor or department for information.

CHEN 4041 Industrial Assignment II

A-F only, 2 credit(s); prereq 3041, completion of required courses in ChEn prog through fall sem of 4th year, GPA of at least 2.80, registration in co-op prog; Credit will not be granted if credit has been received for: MATS 4041;
Instructor: Shores, David A
Description: Student may contact the instructor or department for information.

CHEN 4401W Chemical Engineering Lab I

A-F only, 3 credit(s); prereq [4005, 4006, 4101, 4102, 4001, 4201, Chem 2311, Chem 4121, English composition requirement, upper div ChEn major] or dept consent ; Meets CLE req of Writing Intensive;
Instructor: Caretta, Raul Alberto
Description: Student may contact the instructor or department for information.

CHEN 4501W Chemical Engineering Process Design

3 credit(s); prereq [4005, 4006, 4101, 4102, 4001, 4201, Chem 2311, Chem 4121, fr writing requirement, upper div ChEn major] or dept consent ; Meets CLE req of Writing Intensive;
Instructor: Derby, Jeffrey Jay
Description: Student may contact the instructor or department for information.

CHEN 4593 Directed study

OPT No Aud, 1-4 credit(s), max credits 6, 3 completions allowed; prereq ChEn major upper division, instr consent ;
Instructor: STAFF
Description: Directed study under faculty supervision. Student must meet with faculty supervisor before registering to get permission to pursue directed study, arrange study project, grading option, number of credits, and final report requirements.

CHEN 4594 Directed Research

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

CHEN 4701 Advanced Undergraduate Applied Math I: Linear Analysis

A-F only, 3 credit(s); prereq [3102 or 4102], ChEn major upper div; Credit will not be granted if credit has been received for: CHEN 8201;
Instructor: Daoutidis, Prodromos
Description: Student may contact the instructor or department for information.

CHEN 4704 Advanced Undergraduate Physical Rate Processes I: Transport

A-F only, 3 credit(s); prereq [3005 or 4005], ChEn major upper div;
Instructor: Cussler Jr, Edward L
Description: Survey of mass transfer, dilute/concentrated diffusion, Brownian motion. Diffusion coefficients in polymers, of electrolytes, at critical points. Multicomponent diffusion. Mass transfer correlations/predictions. Mass transfer coupled with chemical reaction. Undergraduate version of ChEn 8301. I do not think that this course is suitable for undergraduates.

CHEN 4707 Advanced Undergraduate Statistical Thermodynamics and Kinetics

A-F only, 3 credit(s); prereq ChEn 3005 or 4005, 3101 or 4101, CHEM 3501, CHEM 3502, ChEn major upper div;
Instructor: Kaznessis, Yiannis
Description: Student may contact the instructor or department for information.

CHEN 5551 Survey of Renewable Energy Technologies

A-F only, 3 credit(s); prereq [Upper div or instr consent], basic knowledge of chemistry, thermodynamics;
Instructor: Schmidt, Lanny D
Description: Student may contact the instructor or department for information.

CHEN 5751 Biochemical Engineering

A-F only, 3 credit(s); prereq [3005 or 4005], [Concurrent registration is required (or allowed) in 3006 or Concurrent registration is required (or allowed) in 4006], [Concurrent registration is required (or allowed) in 3102 or Concurrent registration is required (or allowed) in 4102];
Instructor: Hu, Wei-Shou
Description: Chemical engineering principles applied to analysis/design of complex cellular/enzyme processes. Quantitative framework for design of cells for production of proteins, synthesis of antibodies with mammalian cells, or degradation of toxic compounds in contaminated soil.
Style: 90% Lecture, 10% Discussion.
Grading: 30% final exam, 15% special projects, 25% problem

solving, 30% other evaluation. hour exams (2)
Exam Format: problem solving

CHEN 5771 Colloids and Dispersions

A-F only, 3 credit(s); prereq Physical chemistry;
Instructor: Macosko, Chris
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); prereq Chemical engineering grad student or instr consent;
Instructor: Kumar, Satish
Description: Student may contact the instructor or department for information.

CHEN 8201 Applied Mathematics I: Linear Analysis

A-F only, 3 credit(s); prereq Chemical engineering grad student or instr consent; Credit will not be granted if credit has been received for: CHEN 4701;
Instructor: Daoutidis, Prodromos
Description: Student may contact the instructor or department for information.

CHEN 8221 Synthetic Polymer Chemistry

A-F only, 4 credit(s); prereq [Undergrad organic chemistry course, undergrad physical chemistry course] or instr consent ; Credit will not be granted if credit has been received for: CHEM 4221;
Instructor: Hillmyer, Marc Andrew
Description: Student may contact the instructor or department for information.

CHEN 8301 Physical Rate Processes I: Transport

A-F only, 3 credit(s); prereq instr consent;
Instructor: Cussler Jr, Edward L
Description: Student may contact the instructor or department for information.

CHEN 8401 Physical and Chemical Thermodynamics

A-F only, 3 credit(s); prereq [Undergraduate [engineering course or chemistry course in thermodynamics], Chemical engineering grad student] or instr consent;
Instructor: Aydil, Eray S
Description: Student may contact the instructor or department for information.

CHEN 8402 Statistical Thermodynamics and Kinetics

A-F only, 3 credit(s); prereq Chemical engineering grad student or instr consent;
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: Norris, David J
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: Norris, David J
Description: Student may contact the instructor or department for information.

Chemical Physics

139 Smith Hall

CHPH 8601 Seminar: Modern Problems in Chemical Physics

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

physics major or instr consent ;

Instructor: Siepmann,Ilja

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

Chemistry

139 Smith Hall

CHEM 1015 Introductory Chemistry: Lecture

3 credit(s); prereq [High school chemistry or equiv], two yrs high school math, not passed chem placement exam, Internet access; high school physics recommended CHEM 1015 is a 3-credit, lecture-only course, with the lectures delivered online via WebVista, and exams taken in person on campus. Internet access is required. Students who will go on to take CHEM 1021 should take CHEM 1015 only. Students who will NOT be continuing on to CHEM 1021 and need to fulfill the Physical Science/Lab core requirement need take the 1-credit lab course CHEM 1017 either concurrently or consecutively. This course will NOT fulfill the Physical Science/Lab core requirement unless the CHEM 1017 lab course is completed either concurrently or consecutively.; Credit will not be granted if credit has been received for: CHEM 1011; Meets CLE req of Physical Science/Lab Core;

Instructor: STAFF

Description: Chem 1015 is an undergraduate introductory chemistry course. It may meet a chemistry or science requirement or it may serve as a bridge between high school chemistry and Chem 1021. This course provides a broad survey of chemistry, including an introduction to organic chemistry. Additional topics include matter and energy; measurements in chemistry; ionic and molecular compounds; chemical reactions and chemical equilibrium; gases, liquids, solids, and solutions; acids and bases; and nuclear chemistry.

Style: 100% Lecture.

Grading: 5% problem solving. 95% three mid-term exams and a final exam

CHEM 1017 Introductory Chemistry: Laboratory

A-F only, 1 credit(s); prereq [1015 or Concurrent registration is required (or allowed) in 1015], dept consent credit will not be granted if credit received for: 1011; CHEM 1017 is a 1-credit lab-only course. This course is not intended for students who are planning to take CHEM 1021. Intended only for students who need the course to fulfill the Physical Science/Lab requirement, and are taking CHEM 1015 either concurrently or consecutively. This course will NOT fulfill the Physical Science/Lab core requirement, unless CHEM 1015 is completed either concurrently or consecutively.; Meets CLE req of Physical Science/Lab Core;

Instructor: STAFF

Description: Registration by department permission only. See staff in 115 Smith Hall or call 612-624-0026. CHEM 1017 is identical to the lab for CHEM 1011, but students do not attend any lecture or take any exams. Intended only for students who have taken the lecture-only course CHEM 1015, and later determine that taking the lab is now required.

Style: 100% Laboratory.

CHEM 1021 Chemical Principles I

4 credit(s); prereq Grade of at least C- in [1011 or 1015] or passing placement exam; intended for science or engineering majors Note: Students who have previously received a grade of C- or better and wish to repeat this course should not register for it during the registration queue. If they do they may have their registration canceled. They will be allowed to register on a space available basis, during open enrollment.; Credit will not be granted if credit has been received for: CHEM 1031H; Meets CLE req of Environment Theme; meets CLE req of Physical Science/Lab Core;

Instructor: STAFF

Description: Chem 1021 and Chem 1022 are introductory undergraduate chemistry courses with lab. Lectures include chemical demonstrations. Together these two courses prepare students for majors in science, engineering, and the health sciences. Topics include atoms, molecules, and ions; types of chemical reactions and chemical stoichiometry; thermochemistry; atomic structure and the periodic table; ionic and covalent bonding; molecular shapes; an introduction to organic chemistry and polymers; the nature of gases, liquids and solids.

Style: 50% Lecture, 50% Laboratory.

Grading: 20% laboratory evaluation, 80% other evaluation. Mid-term exams, final exam, problem sets

CHEM 1022 Chemical Principles II

4 credit(s); prereq Grade of at least C- in 1021 or equiv Note: Students who have previously received a grade of C- or better and wish to repeat this course should not register for it during the registration queue. If they do they may have their registration canceled. They will be allowed to register on a space available basis, during open enrollment.; Credit will not be granted if credit has been received for: CHEM 1032H; Meets CLE req of Environment Theme; meets CLE req of Physical Science/Lab Core;

Instructor: STAFF

Description: Chem 1022 is an introductory undergraduate chemistry course with lab. Together, Chem 1021 and Chem 1022 prepare students for majors in science, engineering, and the health sciences. Lectures include chemical demonstrations. Major topics are properties of solutions; chemical kinetics, the study of the rates and mechanisms of chemical reactions; chemical equilibrium in the gas phase; equilibria in aqueous solutions, including acid-base equilibria; entropy and free energy; electrochemistry; transition metals and coordination chemistry; and selected topics. Environmental issues related to course topics are an integral part of this course. For example, the discovery of the depletion of the stratospheric ozone layer by chlorofluorocarbons (CFCs) is an important application of chemical kinetics.

Style: 50% Lecture, 50% Laboratory.

Grading: 20% laboratory evaluation, 80% other evaluation. Mid-term exams, final exam, problem sets

CHEM 1031H Honors Chemistry I

A-F only, 4 credit(s); prereq Honors student and permission of University Honors Program; Credit will not be granted if credit has been received for: CHEM 1021; Meets CLE req of Environment Theme; meets CLE req of Physical Science/Lab Core;

Instructor: STAFF

Description: Chem 1031H is an introductory undergraduate chemistry course designed to help prepare students for careers in science, engineering, and the health sciences. Lecture includes chemical demonstrations. Chem 1031H is a survey of chemical principles and covers many different topics. The main themes include an advanced introduction to atomic theory; periodic properties of the elements; the behavior of gases, liquids and solids; molecular/ionic structure and bonding; aspects of organic chemistry, polymers and spectroscopy; energy sources and other environmental issues related to course topics.

Style: 50% Lecture, 50% Laboratory.

Grading: 20% laboratory evaluation, 80% other evaluation. Mid-term exams and final exam

CHEM 1231 Chemical Principles

A-F only, 4 credit(s); prereq Concurrent registration is required (or allowed) in MATH 1161, [high school chemistry or equiv] Only Rochester-admitted students will be able to enroll in this course.; Meets CLE req of Physical Science/Lab Core;

Instructor: Muthyala,Rajeev Srinivas

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

CHEM 1905 Freshman Seminar: Science In The News

A-F only, 2 credit(s), max credits 3, 1 completion allowed; prereq freshman;

Instructor: Barany,George

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

CHEM 1905 Freshman Seminar: Scientific Progress: Pop Culture & Policy

A-F only, 2 credit(s), max credits 3, 1 completion allowed; prereq freshman;

Instructor: Cramer,Christopher J

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

CHEM 1905 Freshman Seminar: Recycling In The Twin Cities

A-F only, 2 credit(s), max credits 3, 1 completion allowed; prereq freshman;

Instructor: Noland,Wayland E

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

CHEM 1905 Freshman Seminar: My Other Car Is A Bicycle

A-F only, 2 credit(s), max credits 3, 1 completion allowed; prereq freshman;

Instructor: Penn,Lee

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

CHEM 2094 Directed Research

1-3 credit(s), max credits 3, 1 completion allowed; prereq instr consent;

Instructor: Stathopoulos,Stephanie M

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

CHEM 2101 Introductory Analytical Chemistry Lecture

3 credit(s); prereq 1022 or equiv;

Instructor: STAFF

Description: Primarily for chemistry majors. Methods/concepts of measurement by chemical/instrumental analysis, including titrimetry, quantitative spectrophotometric analysis, chromatographic separations, equilibrium/rate methods.

Style: 100% Lecture.

Grading: 10% problem solving, 90% other evaluation. Mid-terms exams and final exam

CHEM 2111 Introductory Analytical Chemistry Lab

2 credit(s); prereq 2101 or concurrent enrollment 2101;

Instructor: STAFF

Description: Lab for CHEM 2101. High precision methods, acidimetry and complexometry, single and multicomponent analysis by spectrophotometry, analysis of mixtures by ion exchange and gas chromatography, enzymatic and rate methods.

Style: 25% Lecture, 75% Laboratory.

Grading: 10% final exam, 5% quizzes, 85% laboratory evaluation.

CHEM 2301 Organic Chemistry I

3 credit(s); prereq Grade of at least C- in [1022 or 1032H] or equiv Note: Students who have previously received a grade of C- or better and wish to repeat this course should not register for it during the registration queue. If they do they may have their registration canceled. They will be allowed to register on a space available basis, during open enrollment;

Instructor: STAFF

Description: Important classes of organic compounds, their constitutions, configurations, conformations, and reactions. Relationships between molecular structure and chemical reactivity/properties. Spectroscopic characterization of organic molecules.

Style: 100% Lecture.

Grading: 100% other evaluation. 4 Midterm Exams and a Final Exam

Exam Format: Mix of multiple choice and written exams

CHEM 2302 Organic Chemistry II

3 credit(s); prereq Grade of at least C- in 2301;

Instructor: STAFF

Description: Reactions, synthesis, and spectroscopic characterization of organic compounds, organic polymers, and biologically important classes of organic compounds such as lipids, carbohydrates, amino acids, peptides, proteins, and nucleic acids.

Style: 100% Lecture.

Grading: 100% other evaluation. 4 Mid-Term Exams and a Final Exam

Exam Format: Mix of multiple choice and written questions

CHEM 2311 Organic Lab

4 credit(s); prereq Grade of at least C- in 2302 or Concurrent registration is required (or allowed) in 2302;

Instructor: Wissinger,Jane E.

Description: This course is designed for undergraduates in the health and science fields that need to fulfill the undergraduate organic chemistry laboratory requirement. It is to be taken after the Organic I lecture course 2301, and concurrently or subsequent to Organic lecture course 2302. The 2311 course is one-semester in length, worth 4 credits, and equivalent to the usual two semester organic laboratory courses taught at other institutions. In the course, interesting and relevant experiments are used to teach the techniques used in the organic laboratory to study, synthesize, isolate, and purify organic compounds. A wide array of instruments including IR, NMR, and GC are used for analysis and computers are used to study molecular conformations and chemical properties. Molecules studied include analgesics, flavors, natural products, dyes, recyclable polymers, and chemiluminescent compounds. Experiments are presented in a manual written by Wissinger and a laboratory techniques textbook ("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 2312H Honors Organic Lab

A-F only, 5 credit(s); prereq [2301 or Concurrent registration is required (or allowed) in 2301], [Chem or ChemE or BioC] major, instr consent ;

Instructor: Hoye,Thomas R.

Description: Honors organic chemistry laboratory to take the place of 2311 and 4311.

CHEM 2910 Special Topics in Chemistry

S-N only, 1 credit(s), max credits 6, 6 completions allowed; prereq 1 sem 1xxx chemistry or instr consent;

Instructor: Stathopoulos,Stephanie M

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

CHEM 3501 Introduction to Thermodynamics, Kinetics, and Statistical Mechanics

3 credit(s); prereq [1022 or 1032H], [MATH 2263 or Concurrent registration is required (or allowed) in MATH 2263 or MATH 2374 or Concurrent registration is required (or allowed) in MATH 2374], [PHYS 1302 or PHYS 1402V];

Instructor: STAFF

Description: Physical chemistry as it relates to macroscopic descriptions of chemical systems. Chemical thermodynamics, phase equilibria, chemical equilibria. Statistical mechanics. Phenomenological reaction kinetics. Kinetic theory of gases. Collision and statistical theories of reaction rates.

Style: 100% Lecture.

Grading: 100% other evaluation. 3 Mid-term exams and a final exam

CHEM 3502 Introduction to Quantum Mechanics and Spectroscopy

3 credit(s); prereq [1022 or 1032H], [MATH 2263 or Concurrent registration is required (or allowed) in MATH 2263 or MATH 2374 or Concurrent registration is required

(or allowed) in MATH 2374], [PHYS 1302 or PHYS 1402V];

Instructor: STAFF

Description: Introduction to microscopic descriptions of chemical systems. Elementary quantum theory. Applications to atomic/molecular structure. Molecular spectroscopy. Quantum statistical mechanics. While a course in differential equations is not required, solutions to several such equations are discussed.

Style: 100% Lecture.

Grading: 60% mid exam, 30% final exam, 10% problem solving.

CHEM 4001 Chemistry of Plant Materials

A-F only, 4 credit(s); prereq 2302, [jr or sr or instr consent];

Instructor: Tschirner,Ulrike Waltrau

Description: Chemistry of cellulose, hemicellulose, lignin, extractives, proteins and other plant materials. About half of course focused on fundamentals, including building blocks of these natural polymers and typical reactions. Remaining course focuses on applications related to these materials (chemicals from biomass, cellulosic ethanol, biodiesel, biodegradable plastics, rayon, papermaking fibers, etc.)

Style: 70% Lecture, 30% Discussion.

Grading: 100% other evaluation. Based on 6 quizzes, 6 homeworks, final exam

CHEM 4011 Mechanisms of Chemical Reactions

3 credit(s); prereq [2302, 3501] or equiv;

Instructor: STAFF

Description: "Mechanisms of Chemical Reactions" is intended to prepare you to (1) elucidate the mechanisms of chemical reactions based on kinetic and thermodynamic principles and collected data, and (2) be able to evaluate mechanistic arguments made in the literature. The course is meant to be broadly applicable to many types of chemistry - organic, physical, materials, computational, etc.- and will focus on basic principles of reactions rather than specific kinds of molecules.

Style: 100% Lecture.

Grading: 67% mid exam, 33% problem solving.

CHEM 4094W Directed Research

1-5 credit(s), max credits 75, 15 completions allowed; prereq Any 3xxx or 4xxx chem course, instr consent; Meets CLE req of Writing Intensive;

Instructor: Stathopoulos,Stephanie M

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

CHEM 4101 Intermediate Analytical Chemistry Lecture

A-F only, 3 credit(s); prereq 2101, 2111, 2311, concurrent enrollment 3501;

Instructor: STAFF

Description: Basic electronic, optical, computer technologies employed in design of chemical instrumentation. Advanced topics in spectroscopy (e.g., FT-nmr, FT-IR, atomic absorption/emission). Electrochemistry. Mass spectrometry.

Style: 100% Lecture.

Grading: 30% mid exam, 30% final exam, 7% special projects, 15% quizzes, 15% problem solving, 3% other evaluation. extra materials

CHEM 4201 Materials Chemistry

3 credit(s); prereq [[3502 or equiv], 4701] or instr consent ; Credit will not be granted if credit has been received for: CHEM 8201;

Instructor: STAFF

Description: Crystal systems/unit cells, phase diagrams, defects/interfaces, optical/ dielectric properties, electrical/thermal conductivity, X-ray diffraction, thin film analysis, electronic structure, polarons/phonons, solid state chemistry, liquid/molecular crystals, polymers, magnetic/optical materials, porous materials, ceramics, piezoelectric materials, biomedical materials, catalysts.

Style: 100% Lecture.

Grading: 31% mid exam, 38% final exam, 15% quizzes, 16% problem solving.

CHEM 4221 Introduction to Polymer Chemistry

3 credit(s); prereq [2302, 3501] or instr consent ; Credit will not be granted if credit has been received for: MATS 5221;

Instructor: Hillmyer,Marc Andrew

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

CHEM 4301 Surface and Colloid Science in Bio-based Products Manufacturing

3 credit(s); prereq 3501, [jr or sr or instr consent];

Instructor: Dubay,Matthew Richard

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

CHEM 4311W Advanced Organic Chemistry Lab

2 credit(s); prereq 2311; Meets CLE req of Writing Intensive;

Instructor: STAFF

Description: Reactions, techniques and instrumental methods used in modern synthetic organic chemistry.

Style: 10% Lecture, 90% Laboratory.

Grading: 100% laboratory evaluation.

CHEM 4321 Organic Synthesis

3 credit(s); prereq [2302 or equiv], 3501, instr consent ;

Instructor: STAFF

Description: Fundamental concepts, reactions, reagents, structural/stereochemical issues, and mechanistic skills for organic chemistry.

CHEM 4361 Interpretation of Organic Spectra

3 credit(s); prereq [2302 or equiv], 3501, instr consent ;

Instructor: STAFF

Description: Application of nuclear magnetic resonance, mass, ultraviolet, and infrared spectral analyses to organic structural problems.

Style: 100% Lecture.

Grading: 60% mid exam, 20% final exam, 20% problem solving.

CHEM 4411 Introduction to Chemical Biology

3 credit(s); prereq [2302 or equiv], 3501;

Instructor: STAFF

Description: Chemistry of amino acids, peptides, proteins, lipids, carbohydrates, and nucleic acids; topics will include structure, nomenclature, synthesis, and reactivity, as well as an overview of techniques used to characterize these biomolecules

Style: 100% Lecture.

Grading: 30% mid exam, 20% final exam, 20% class participation, 30% problem solving.

CHEM 4511W Advanced Physical Chemistry Lab

2 credit(s); prereq 3501-3502, chemistry major; Meets CLE req of Writing Intensive;

Instructor: STAFF

Description: Experiments illustrating principles and methods of thermodynamics, reaction kinetics, and quantum mechanics.

Style: 20% Lecture, 80% Laboratory.

Grading: 100% laboratory evaluation.

CHEM 4701 Inorganic Chemistry

3 credit(s); prereq 2311, [3501 or concurrent enrollment 3501 or 3502 or concurrent enrollment 3502];

Instructor: STAFF

Description: Introduction to inorganic chemistry at an advanced level. Periodic trends. Structure and bonding concepts in compounds where s and p electrons are important. Descriptive chemistry of solids and transition metal compounds. Emphasis on transition metal chemistry. Advanced topics in main group and materials chemistry.

Style: 100% Lecture.

Grading: 60% mid exam, 25% final exam, 15% quizzes.

CHEM 4715 Physical Inorganic Chemistry

3 credit(s); prereq 4701 or equiv, chem major or instr consent ;

Instructor: Lu,Connie C

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

CHEM 4745 Advanced Inorganic Chemistry

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

CHEM 5245 Introduction to Drug Design

A-F only, 3 credit(s); prereq 2302 or equiv; Credit will not be granted if credit has been received for: PHAR 6245;
Instructor: Wagner,Carston R
Description: Concepts that govern design/discovery of drugs. Physical, bioorganic, medicinal chemical principles applied to explain rational design, mechanism of action drugs.

CHEM 5501 Introduction to Thermodynamics, Kinetics, and Statistical Mechanics

A-F only, 3 credit(s); prereq [1022 or 1032H], [MATH 2263 or Concurrent registration is required (or allowed) in MATH 2263 or MATH 2374 or Concurrent registration is required (or allowed) in MATH 2374], [PHYS 1302 or PHYS 1402V];
Instructor: Veglia,Gianluigi
Description: What is a gas?; equations of state; the ideal-gas equation; the virial expansion; other equations of state. Heat and work; the First Law; reversible and non-reversible processes; heat capacity; enthalpy. Spontaneous processes; entropy; the Second Law. Entropy as a function of temperature; the Third Law; how entropy depends on molecular mass and structure; standard entropy values. Criteria for spontaneity in non-isolated systems; the Helmholtz and Gibbs functions; Maxwell relations; natural independent variables; calculations involving real and ideal gases; the standard state of a gas; fugacity. Phase diagrams; Gibbs function and the phase diagram of a substance. Chemical potential; Clausius-Clapeyron equation. Liquid solutions; partial molar quantities; the Gibbs-Duhem equation; phase equilibria in binary systems; ideal and non-ideal solutions; activity and the activity coefficient. Solid-liquid solutions; activity of a non-volatile solute; colligative properties; Chemical equilibrium; the equilibrium constant; the van't Hoff equation; using activities in equilibrium calculations. The relationship between temperature and mean kinetic energy in a gas; the Maxwell-Boltzmann distribution; collisions; cross-sections; collision rate and reaction rate. Rate laws; the order of a reaction; reversible reactions; relaxation methods; temperature dependence of the rate constant.
Style: 100% Lecture.
Grading: 54% mid exam, 28% final exam, 18% quizzes.
Exam Format: Problems

CHEM 5502 Introduction to Quantum Mechanics and Spectroscopy

A-F only, 3 credit(s); prereq [1022 or 1032H], [MATH 2263 or Concurrent registration is required (or allowed) in MATH 2263 or MATH 2374 or Concurrent registration is required (or allowed) in MATH 2374], [PHYS 1302 or PHYS 1402V];
Instructor: Gagliardi,Laura
Description: Student may contact the instructor or department for information.

CHEM 8011 Mechanisms of Chemical Reactions

4 credit(s); prereq 2302 or equiv;
Instructor: Pierre,Valerie Christine
Description: Student may contact the instructor or department for information.

CHEM 8025 Introduction to Graduate Research

A-F only, 1-2 credit(s), max credits 2; prereq Grad student in chem;
Instructor: Bowser,Michael
Description: Student may contact the instructor or department for information.

CHEM 8066 Professional Conduct of Chemical Research

S-N only, 1 credit(s); prereq Chem grad student;
Instructor: Truhlar,Donald G
Description: Student may contact the instructor or department for information.

CHEM 8151 Analytical Separations and Chemical Equilibria

4 credit(s); prereq instr consent;
Instructor: Carr,Peter William
Description: Student may contact the instructor or department for information.

CHEM 8152 Analytical Spectroscopy

4 credit(s); prereq grad chem major or instr consent;
Instructor: Haynes,Christy L
Description: Student may contact the instructor or department for information.

CHEM 8201 Materials Chemistry

A-F only, 4 credit(s); prereq [4701, 3502] or instr consent ;
Credit will not be granted if credit has been received for: CHEM 4201;
Instructor: Stein,Andreas
Description: Student may contact the instructor or department for information.

CHEM 8221 Synthetic Polymer Chemistry

4 credit(s); prereq [Undergrad organic chemistry course, undergrad physical chemistry course] or instr consent ;
Credit will not be granted if credit has been received for: CHEM 4221;
Instructor: Hillmyer,Marc Andrew
Description: Student may contact the instructor or department for information.

CHEM 8321 Organic Synthesis

4 credit(s); prereq 2302 or equiv;
Instructor: Douglas,Christopher J.
Description: Student may contact the instructor or department for information.

CHEM 8361 Interpretation of Organic Spectra

4 credit(s); prereq 2302 or equiv;
Instructor: Harned,Andrew Michael
Description: Student may contact the instructor or department for information.

CHEM 8411 Introduction to Chemical Biology

4 credit(s); prereq 2302 or equiv;
Instructor: Distefano,Mark Dewey
Description: Student may contact the instructor or department for information.

CHEM 8541 Dynamics

4 credit(s); prereq Undergrad physical chem course; Credit will not be granted if credit has been received for: CHEM 5541;
Instructor: Truhlar,Donald G
Description: Student may contact the instructor or department for information.

CHEM 8551 Quantum Mechanics I

4 credit(s); prereq undergrad physical chem course; Credit will not be granted if credit has been received for: CHEM 5551;
Instructor: Lipsky,Sanford
Description: Student may contact the instructor or department for information.

CHEM 8561 Thermodynamics, Statistical Mechanics, and Reaction Dynamics I

4 credit(s); prereq undergrad physical chem course;
Instructor: Siepmann,Ilja
Description: Student may contact the instructor or department for information.

CHEM 8601 Seminar: Modern Problems in Chemistry

S-N only, 1 credit(s); prereq grad chem major or instr consent;
Instructor: Pierre,Valerie Christine
Description: Student may contact the instructor or department for information.

for information.

CHEM 8602 Seminar Presentation: Modern Problems in Chemistry

A-F only, 1 credit(s); prereq grad chem major or instr consent;

Instructor: Pierre, Valerie Christine

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

CHEM 8715 Physical Inorganic Chemistry

4 credit(s); prereq 4701 or equiv, grad chem major or instr consent;

Instructor: Lu, Connie C

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

CHEM 8745 Advanced Inorganic Chemistry

4 credit(s); prereq 8715, grad chem major or instr consent;

Instructor: Ellis, John Emmett

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

Chicano Studies

19 Scott Hall

CHIC 1102 Latinos in the United States: Culture and Citizenship

3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core;

Instructor: STAFF

Description: This course offers an interdisciplinary introduction to the cultural, historical and social diversity of Latinas/os in the U.S. Through examining literature, film and popular cultural productions, students will learn how the experiences and identities of Latinas/os in the U.S. converge and diverge in relation to one another and to other cultural groups in the United States. This course is designed to provide students with the historical and cultural knowledge necessary in understanding the complex and multi-layered relationship that Latinas/os have to this country, their country of origin, and how social, cultural, and political dynamics influence Latina/o identity, politics and sense of belonging in the U.S. Class time: 20% lecture, 50% discussion, 10% film, 10% group presentation, 10% exams/quizzes Work load: 60-70 pages reading per week, 10 pages total writing* (2 short essays), 1 presentation, mid-term exam, final exam, cultural event** Grade: class participation and attendance (20%), group presentation (10%), quizzes (15%), 2 short essays (20%) mid-term exam (15%), final exam (20%) *Honors student requirements 15 pages total writing **Honors students must fulfill cultural event requirement

CHIC 1102H Latinos in the United States: Culture and Citizenship

A-F only, 3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core;

Instructor: Rodriguez, Lori B

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

CHIC 1201 Racial Formation and Transformation in the United States

3 credit(s);

Instructor: Onishi, Yuichiro

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

CHIC 1275 Service Learning in the Chicano/Latino Community

3 credit(s); Credit will not be granted if credit has been received for: CHIC 3275; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Cultural Diversity Theme;

Instructor: Ganley, Kathleen Marie

Description: This course is premised on the notion that there

are many institutional and social constraints and limitations within schools that block equitable educational opportunities and outcomes for Latino students. It is also based on the idea that students who fail to learn in our schools and fail to graduate are our responsibility. In this course, you will be asked to think and act as you contribute to youth education. You will study the education of Chicanos/Latinos in the United States through the integration of academic materials, discussion, guest speakers and visits to the community while doing community service in an educational setting with Latino youth. Over the course of the semester, you will provide 42 hours of tutoring and mentoring (approx. 3 hours a week) in culturally grounded programs in one of the following sites: La Escuelita, Academia Cesar Chavez or Edison High School. You will analyze the education of Chicanos/Latinos while reflecting on issues such as equality, language usage, graduation statistics, college enrollment, various educational methodologies, special challenges faced by immigrants, and current legislation to create change. In this course students will be called upon to problematize and think critically about "service" A portion of class discussions will focus on the concept of service and what place it has in society. **Style:** 20% Lecture, 40% Discussion, presentations, Web-CT **Grading:** 20% reports/papers, 10% in-class presentation, 10% class participation, 10% problem solving, 50% other evaluation. tutoring at community site

CHIC 1902 Freshman Seminar: Chicana/o-Latina/o: History, Culture, and Identity

3 credit(s); Meets CLE req of Cultural Diversity Theme;

Instructor: Torres PhD, Eden E.

Description: This course is designed for the CASA SOL students. We will explore the history and development of Chicana/o and Latina/o social movements, political identities, and aesthetics. We will discuss the meaning of changing demographics and the role of Latinas/os in the global economy as both consumers and creators of culture. You will be challenged to identify, analyze, and evaluate your own social location in relation to others.

Style: 20% Lecture, 10% Film/Video, 50% Discussion, 20% Small Group Activities.

Grading: 20% reports/papers, 30% reflection paper, 25% in-class presentation, 25% class participation. In-class presentation is a group project designed to facilitate discussion.

CHIC 3212 Chicana Studies: La Chicana in Contemporary Society

3 credit(s); Credit will not be granted if credit has been received for: GWSS 3410; Meets CLE req of Cultural Diversity Theme;

Instructor: STAFF

Description: This class centers on Chicanas or politically defined women of the Mexican American community. Our method is interdisciplinary. It emphasizes the importance of historical context and cultural process to any discussion of the Chicana experience.

CHIC 3221 Introduction to Chicana/o Cultural Studies: Barrio Culture and the Aesthetics of Everyday Life

3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core;

Instructor: Topete, Daniel

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

CHIC 3275 Service Learning in the Chicano/Latino Community

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

Instructor: Ganley, Kathleen Marie

Description: This course is premised on the notion that there are many institutional and social constraints and limitations within schools that block equitable educational opportunities and outcomes for Latino students. It is also based on the idea that students who fail to learn in our schools and fail to graduate are our responsibility. In this course, you will be asked to think and act as you contribute to youth education. You will study the

education of Chicanos/Latinos in the United States through the integration of academic materials, discussion, guest speakers and visits to the community while doing community service in an educational setting with Latino youth. Over the course of the semester, you will provide 42 hours of tutoring and mentoring (approx. 3 hours a week) in culturally grounded programs in one of the following sites: La Escuelita, Academia Cesar Chavez or Edison High School. You will analyze the education of Chicanos/Latinos while reflecting on issues such as equality, language usage, graduation statistics, college enrollment, various educational methodologies, special challenges faced by immigrants, and current legislation to create change. In this course students will be called upon to problematize and think critically about "service" A portion of class discussions will focus on the concept of service and what place it has in society.
Style: 20% Lecture, 40% Discussion. presentations, Web-CT
Grading: 20% reports/papers, 10% in-class presentation, 10% class participation, 10% problem solving, 50% other evaluation. tutoring at community site

CHIC 3375 Folklore of Greater Mexico

3 credit(s); Meets CLE req of Cultural Diversity Theme; Instructor: STAFF

Description: This course is a scholarly survey and exploration of the sociocultural function of various types of folklore in Greater Mexico. Students will analyze the ways in which folklore constructs and maintains community, as well as resists and creates cultural shifts. The central objective of the course will be to gain an understanding of how folklore and folk knowledge shape Chicano culture and traditions.

CHIC 3444 Chicana and Chicano History: 1821-1945

3 credit(s); Credit will not be granted if credit has been received for: HIST 3441; Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core; Instructor: Bueno, Marianne M.

Description: This course examines the experiences of people of Mexican descent in the United States. The course will provide a foundation for understanding the central role of Chicanas and Chicanos in the history, culture, and politics of the United States. While organized chronologically the guiding principle of this course is the understanding that the lives of people of Mexican descent are multiply constructed. That is, interrogating the lived experiences of Chicana/os through the lens of intersectionality offers new insight into both Chicana/o and US history. We will use a variety of sources including monographs, articles, novels, primary documents, movies and documentaries in order to construct a nuanced understanding of Chicanas and Chicanos at different historical moments. Over the course of the semester we will survey the major challenges faced by people of Mexican descent in the US in order to critically discuss the social, economic, cultural and political changes that influenced the day-to-day life of Chicana/os.

CHIC 3507W Introduction to Chicana/o Literature

3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;

Instructor: Covarrubias, Alexandra Mendoza

Description: This introductory course will focus in large part on the use and function of feminine archetypes within the canon of Chicana/o literature. Students will be exposed to a variety of texts and writing styles and will learn to identify the themes and aesthetics that characterize Chicana/o literature in its many forms as well as understand the significance of the counter-narratives that Chicana/o literature presents. We will approach the readings from an intersectional perspective; analyzing works for the ways in which they confront not only race, class, sexuality and gender issues, but issues of transnationalism and globalization as well.

Style: 25% Lecture, 60% Discussion, 15% Student Presentation.

Grading: 25% reports/papers, 20% quizzes, 30% reflection paper, 10% in-class presentation, 10% class participation, 5% other evaluation. 2 short papers (15% each), final paper (25%), 5 quizzes- lowest score dropped (20%), group presentation (10%), and class participation (10%)

CHIC 3852 Chicana/o Politics

3 credit(s); Credit will not be granted if credit has been received for: POL 3752; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core; Instructor: Topete, Daniel
Description: Student may contact the instructor or department for information.

CHIC 4232 Chicana/o - Latina/o Gender and Sexuality Studies

3 credit(s); Meets CLE req of Cultural Diversity Theme; Instructor: Rodriguez, Lori B
Description: This course will explore the topics of Chicana/Latina/o gender and sexuality from a critical ?borderlands? cultural approach ? exploring the dynamic and complex realities and representations of Chicana/Latina/o in relation to gender and sexuality. Through examining a variety of ?narratives? as presented in literature, film and art, we will explore how gender and sexuality are constructed in direct relation to race, class and cultural identity and how these constructions are informed by various socio-historical contexts. We will also critically engage these narratives in exploring how they reinforce, challenge or dismantle mainstream American discourses on gender and sexuality.

CHIC 4275 Theory in Action: Community Engagement in a Social Justice Framework

3 credit(s); Meets CLE req of Citizenship/Public Ethics Theme; Instructor: Sass Zaragoza, Lisa

Description: In this course, we examine theoretical frameworks for understanding social justice and social agency. We study identity theory, power, race, class and privilege and how these play out in our own lives, particularly as we interact and work within various community settings. The majority of the class will focus on Latino worker's experiences organizing within the global economy, particularly here in Minnesota. Students will spend at least 25 hours working with a community based group, organization, union, worker center or policy initiative learning through experience different models for movement building, advocacy and change.

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; prereq instr consent ;

Instructor: Torres PhD, Eden E.

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

Child Psychology 104 Child Development

CPSY 1904 Freshman Seminar: International Perspectives: Cross Cultural Studies of Children

3 credit(s), max credits 3, 1 completion allowed; prereq Fr; Meets CLE req of International Perspective Theme;

Instructor: Maratsos, Michael P

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

CPSY 2301 Introductory Child Psychology

4 credit(s); prereq 4 cr intro psych; Credit will not be granted if credit has been received for: CPSY 3301; Meets CLE req of Social Science Core;

Instructor: Heinrichs PhD, Marian 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. "Children are the world's most valuable resource and

its best hope for the future." This is a quote from President John F. Kennedy, and a sentiment we often hear expressed by local and international leaders. In order to change this statement into action, we need to know what circumstances will lead to the best outcomes for children. Throughout this course, we will learn about each specific phase of development, and address the factors that influence development. We will look to research to answer these questions, but the answers are not always clear. Consider these examples: Children who are raised in a home with domestic violence will have a high probability of negative outcomes, but how is it that some children show great resilience? We know that the early relationship that develops between the child and caregiver is essential to the healthy development of the child's socio-emotional and cognitive functioning; what is the effect of mothers returning to work within the first year of a child's life? 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. Broadly speaking, the explanation lies in the heredity and the environment of the child, in the interaction of the genes, past development, and the current environmental conditions. 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. There are strict principles by which research must be conducted and shared with the research community in order to ensure valid, reliable conclusions. You will have the opportunity to read original research and conduct simple data collection to replicate this research so that you will learn how information about child development has been gathered. You will gain an understanding of how the developmental psychologist approaches the study of child behavior, and how the theories developed through research can influence parent, teachers, and policymakers. As you progress through this course, I encourage you to observe and interact with children wherever you happen to be. Don't lose track of the real subject matter. I hope that you will discover that children are our best teachers.

Style: 100% Web Based.

Grading: Reflection assignments (2 at 5 pts each) 5% Essay assignments (6 at 15 pts each) 45% Research projects (2 at 20 pts each) 20% Midcourse exam (30 pts) 15% Final exam (30 pts) 15% On the S/N basis, you must earn at least a 70% for an S.

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

CPSY 2301 Introductory Child Psychology

4 credit(s); prereq 4 cr intro psych; Credit will not be granted if credit has been received for: CPSY 3301; Meets CLE req of Social Science Core;

Instructor: Pleuss, Jessica C

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

CPSY 2301 Introductory Child Psychology

4 credit(s); prereq 4 cr intro psych; Credit will not be granted if credit has been received for: CPSY 3301; Meets CLE req of Social Science Core;

Instructor: Warren, Henriette

Description: This undergraduate survey course will examine social and cognitive development from the prenatal period through adolescence. The major goals include fostering an understanding of the usefulness of a developmental approach to psychological issues, and familiarizing students with current research and methodology in child psychology. This course emphasizes normal physical, cognitive, emotional, and social development. Class sessions will include a mixture of lectures, discussion, videos, and group activities.

Style: 80% Lecture, 10% Discussion. instructional videos

Grading: 50% mid exam, 20% final exam, 15% reports/papers,

5% class participation, 10% laboratory evaluation.

Exam Format: multiple choice

CPSY 3301 Introductory Child Psychology for Social Sciences

4 credit(s); Credit will not be granted if credit has been received for: CPSY 2301;

Instructor: Heinrichs PhD, Marian R

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

CPSY 3301 Introductory Child Psychology for Social Sciences

4 credit(s); Credit will not be granted if credit has been received for: CPSY 2301;

Instructor: Pleuss, Jessica C

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

CPSY 3301 Introductory Child Psychology for Social Sciences

4 credit(s); 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 3308 Introduction to Research Methods in Child Psychology

A-F only, 4 credit(s); prereq 2301, Psy 1001;

Instructor: Karatekin, Canan

Description:

Style: 100% Lecture.

Grading: The course will include many ways of evaluating students. Please contact the instructor for the specific grading criteria.

Exam Format: Short-response

CPSY 3308 Introduction to Research Methods in Child Psychology

A-F only, 4 credit(s); prereq 2301, Psy 1001;

Instructor: Martin MA, David Myron

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

CPSY 4302 Infant Development

A-F only, 4 credit(s); prereq 2301 or instr consent;

Instructor: Yonas, Albert

Description: The goal of this course is to survey the field of infant development, its theories and methods. The course will concentrate on the period that begins with conception and ends at two years of life. The first part of the course will deal with the first year of life, including prenatal development, physical, neurological, motor and perceptual development. The second part of the course will focus on cognitive and social development. This part will also explore the development of language and memory. The final part of the course will deal with social development. It will include topics such as parent-child attachment, temperament, and the effects of environmental deprivation and enrichment. The course emphasizes methodological hazards that should be attended to in making inferences about infant function and development.

Style: 80% Lecture, 20% Discussion.

Grading: 40% final exam, 30% reports/papers, 30% quizzes.

Exam Format: Short Answer Essay

CPSY 4303 Adolescent Psychology

A-F only, 4 credit(s); prereq Psy 1001;

Instructor: Masten, Ann S.

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

CPSY 4303 Adolescent Psychology

A-F only, 4 credit(s); prereq Psy 1001;

Instructor: Salvatore, Jessica Elizabeth

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

CPSY 4310 Special Topics in Child Development: Adolescent Popularity, Status and Peer Relations

3 credit(s), max credits 12, 3 completions allowed; prereq 2301;

Instructor: Marks, Peter E

Description: This course will consider connections between popularity, social behavior, and peer relationships among adolescents by looking at research from psychology, sociology, anthropology, print media, and popular media. The first half of the semester will focus on methods of assessing popularity and peer relationships, and on defining different forms of status (including social dominance, social visibility, and, of course, adolescent popularity). The second half of the semester will cover correlates of popularity (including physical attractiveness and aggression) and the ways that popularity is related to peer relationships (friendships, romantic relationships, etc.). Class sessions will be primarily discussion-based, with some lectures, videos, and group activities.

CPSY 4311 Behavioral and Emotional Problems of Children

A-F only, 4 credit(s); prereq Intro psych;

Instructor: Mathieson, Lindsay Catherine

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

CPSY 4329 Biological Foundations of Development

A-F only, 4 credit(s); prereq 2301 or equiv;

Instructor: Hunt, Ruskin H

Description: COURSE OBJECTIVES: The general goal of this course is to provide an overview of the biological bases of many of the developmental processes that you have studied in previous developmental psychology courses, with special attention to genetic and environmental influences on brain development. The course includes an overview of the following topics: 1. Basic developmental neuroanatomy and neurophysiology 2. Genetic influences on brain development and child development 3. Pre- and perinatal environments and biological and brain development 4. Biological bases of sensory, cognitive, social and emotional functions 5. Biological and neurophysiological correlates of atypical child development
Style: 100% Lecture.

Grading: 57% mid exam, 29% final exam, 14% special projects. Ten quizzes are given over the course of the semester. Students may earn extra points for high performance on quizzes. No penalty occurs for poor performance on quizzes.

Exam Format: Exams employ a combination of multiple choice, true/false, matching, definitions, explain the figure, and/or short answer questions.

CPSY 4331 Social and Personality Development

A-F only, 4 credit(s); prereq 2301, Psy 1001;

Instructor: Lingras, Katie

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

CPSY 4331 Social and Personality Development

A-F only, 4 credit(s); prereq 2301, Psy 1001;

Instructor: Omli PhD, Jens

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

CPSY 4331 Social and Personality Development

A-F only, 4 credit(s); prereq 2301, Psy 1001;

Instructor: Cobb, Aimee Lynn

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

CPSY 4341 Perceptual Development

3 credit(s); prereq 2301;

Instructor: Pick Jr, Herbert L

Description: What meaningful information can babies, even newborns, gain through the senses: seeing, hearing, feeling, etc? How do we know? How do such elementary capacities develop into skills like a 2-year old guiding a spoonful of food to its mouth or a 10-year old catching a fly ball? What is the course of development from a young infant unable to crawl to a teenager finding their way in a strange city or in thick woods on a camping trip? What kinds of experience play a role in these achievements? This course will examine such issues and more.

Style: 80% Lecture, 20% Discussion.

Grading: 30% mid exam, 35% final exam, 25% reports/papers, 10% other evaluation. For discussion questions based on readings. Students will be assigned specific readings.

Exam Format: Multiple choice, short answer, and/or short essay

CPSY 4343 Cognitive Development

A-F only, 3 credit(s); prereq 2301;

Instructor: Markant, Julie Christina

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

CPSY 4347W Senior Project

A-F only, 2 credit(s); prereq CPsy sr; Meets CLE req of

Writing Intensive;

Instructor: Yussen, Steve

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

CPSY 4993 Directed Instruction in Child Psychology

S-N only, 1-4 credit(s), max credits 8, 8 completions allowed; prereq ECSE or MED student;

Instructor: Carlson, Ann Ruhl

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

CPSY 4994 Directed Research in Child Psychology

1-4 credit(s), max credits 8, 8 completions allowed; prereq 4 cr in CPsy, instr consent, dept consent;

Instructor: STAFF

Description: This is an opportunity for students to assist in developmental research. Many opportunities are listed on our CPSY undergraduate advising board in Room 106. Possible tasks might include making phone calls to solicit subjects; scheduling and confirming appointments; updating information; filming subjects; coding data, entering data into a computer; tabulating data; analyzing data statistically; sitting with siblings during experiments; doing library research; collecting archival data. This list is not exhaustive. A contract and override are required to register. The student uses a contract as an opportunity to clarify opportunities, responsibilities, and desires, etc.

Style: 10% Discussion, 90% Laboratory.

Grading: 20% special projects, 70% laboratory evaluation, 10% problem solving.

CPSY 4994V Directed Research in Child Psychology (Honors Thesis)

1-6 credit(s), max credits 6, 4 completions allowed; prereq 4 cr in CPsy, CPsy honors, instr consent, dept consent; Meets CLE req of Writing Intensive;

Instructor: Cicchetti PhD, Dante

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

CPSY 4994V Directed Research in Child Psychology (Honors Thesis)

1-6 credit(s), max credits 6, 4 completions allowed; prereq 4 cr in CPsy, CPsy honors, instr consent, dept consent; Meets CLE req of Writing Intensive;

Instructor: 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; prereq 4 cr in CPsy, CPsy honors, instr consent, dept consent; Meets CLE req of Writing Intensive;
 Instructor: Masten,Ann S.
 Description: Student may contact the instructor or department for information.

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

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

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

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

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

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

CPSY 4994V Directed Research in Child Psychology (Honors Thesis)
 1-6 credit(s), max credits 6, 4 completions allowed; prereq 4 cr in CPsy, CPsy honors, instr consent, dept consent; Meets

CLE req of Writing Intensive;
 Instructor: Egeland,Byron R
 Description: Student may contact the instructor or department for information.

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

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

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

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

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

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

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

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

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

CPSY 5251 Social and Philosophical Foundations of Early Childhood Education
A-F only, 3 credit(s); prereq [MEd student in ECE or ECSE] or instr consent credit will not be granted if credit received for: CI 5251;
Instructor: Carlson PhD,LaVonne
Description: Student may contact the instructor or department for information.

CPSY 5253 Facilitating Cognitive and Creative Learning in Early Childhood Education
A-F only, 3 credit(s); prereq MEd student in early childhood ed or early childhood special ed, or instr consent credit will not be granted if credit received for: CI 5253;
Instructor: Murphy,Barbara Ann
Description: Student may contact the instructor or department for information.

CPSY 5281 Student Teaching in Early Childhood Education
S-N only, 3-6 credit(s), max credits 6, 1 completion allowed; prereq MEd student in early childhood ed or early childhood special ed credit will not be granted if credit received for: 5281;
Instructor: Murphy,Barbara Ann
Description: Student may contact the instructor or department for information.

CPSY 5413 Early Childhood and Public Policy
3 credit(s);
Instructor: Slawik,Nora B
Description: If you want to learn directly from legislators, early education professionals, economists, lobbyists and other social scientists about state, federal and international policies affecting young children and their families this class is essential. We will explore readings and expert speaker presentations on family, community and institutional roles in promoting children's social, cognitive and emotional development and their acquisition of language and pre-literacy skills. This course illuminates the gaps between the science of early childhood development and how public policies support young children and their caregivers. Classroom discussions will focus on innovative public policies and financing affecting young children and their physical and mental health care, poverty influences, quality child care, economics, special needs and workforce issues. 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. This class is the cornerstone of the Early Childhood Policy Certificate program, a postbaccalaureate sequence intended to develop individuals' capacity to apply research-informed knowledge of early development to federal and state policy affecting children up to

age 8.
Style: 20% Lecture, 20% Discussion, 10% Student Presentation, 40% 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, 40% written homework, 20% class participation. Class attendance also weighs into the final grade if the student misses more than two of the weekly classes.

CPSY 8301 Developmental Psychology: Cognitive Processes
4 credit(s); prereq Doctoral student, instr consent ;
Instructor: Thomas,Kathleen M
Description: Student may contact the instructor or department for information.

CPSY 8311 Landmark Issues and Great Controversies in Child Development
S-N only, 2 credit(s); prereq CPsy doctoral student or instr consent ;
Instructor: Collins,W Andrew
Description: Student may contact the instructor or department for information.

CPSY 8321 Seminar: Current Issues in Teaching Developmental Psychology
1 credit(s), max credits 2; prereq CPsy doctoral student or instr consent;
Instructor: Warren,Henriette
Description: Student may contact the instructor or department for information.

CPSY 8360 Special Topics in Developmental Psychology: The Development of Moral Judgment
3 credit(s), max credits 21, 7 completions allowed; prereq Doctoral student;
Instructor: Maratsos,Michael P
Description: Student may contact the instructor or department for information.

CPSY 8360 Special Topics in Developmental Psychology: Mechanisms of Developmental Change
3 credit(s), max credits 21, 7 completions allowed; prereq Doctoral student;
Instructor: Sera PhD,Maria D
Description: Student may contact the instructor or department for information.

CPSY 8360 Special Topics in Developmental Psychology: Developmental Neurobiology of Stress and Emotion
3 credit(s), max credits 21, 7 completions allowed; prereq Doctoral student;
Instructor: Gunnar PhD,Megan R
Description: Student may contact the instructor or department for information.

CPSY 8360 Special Topics in Developmental Psychology: Critical Issues in Attachment Theory
3 credit(s), max credits 21, 7 completions allowed; prereq Doctoral student;
Instructor: Sroufe,L Alan
Description: Student may contact the instructor or department for information.

CPSY 8360 Special Topics in Developmental Psychology: Current Issues in Evaluation Rsch: Impact Analysis
3 credit(s), max credits 21, 7 completions allowed; prereq Doctoral student;
Instructor: Reynolds,Arthur J.
Description: Student may contact the instructor or department for information.

CPSY 8980 Research Seminar in Child Psychology
1-3 credit(s), max credits 15, 15 completions allowed; prereq Doctoral student;

Instructor: Crick,Nicki R

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

**1-6 credit(s), max credits 15, 15 completions allowed; prereq
Doctoral student or instr consent;**

Instructor: Pick,Anne D

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

CPSY 8994 Research Problems in Child Psychology

**1-6 credit(s), max credits 15, 15 completions allowed; prereq
Doctoral student or instr consent;**

Instructor: Cicchetti PhD,Dante

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

CPSY 8994 Research Problems in Child Psychology

**1-6 credit(s), max credits 15, 15 completions allowed; prereq
Doctoral student or instr consent;**

Instructor: Collins,W Andrew

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

CPSY 8994 Research Problems in Child Psychology

**1-6 credit(s), max credits 15, 15 completions allowed; prereq
Doctoral student or instr consent;**

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 15, 15 completions allowed; prereq
Doctoral student or instr consent;**

Instructor: Egeland,Byron R

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

CPSY 8994 Research Problems in Child Psychology

**1-6 credit(s), max credits 15, 15 completions allowed; prereq
Doctoral student or instr consent;**

Instructor: Masten,Ann S.

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

CPSY 8994 Research Problems in Child Psychology

**1-6 credit(s), max credits 15, 15 completions allowed; prereq
Doctoral student or instr consent;**

Instructor: Gunnar PhD,Megan R

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

CPSY 8994 Research Problems in Child Psychology

**1-6 credit(s), max credits 15, 15 completions allowed; prereq
Doctoral student or instr consent;**

Instructor: Georgieff,Michael K

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

CPSY 8994 Research Problems in Child Psychology

**1-6 credit(s), max credits 15, 15 completions allowed; prereq
Doctoral student or instr consent;**

Instructor: Sroufe,L Alan

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

CPSY 8994 Research Problems in Child Psychology

**1-6 credit(s), max credits 15, 15 completions allowed; prereq
Doctoral student or instr consent;**

Instructor: Thomas,Kathleen M

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

CPSY 8994 Research Problems in Child Psychology

**1-6 credit(s), max credits 15, 15 completions allowed; prereq
Doctoral student or instr consent;**

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 15, 15 completions allowed; prereq
Doctoral student or instr consent;**

Instructor: Pick Jr,Herbert L

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

CPSY 8994 Research Problems in Child Psychology

**1-6 credit(s), max credits 15, 15 completions allowed; prereq
Doctoral student or instr consent;**

Instructor: Karatekin,Canan

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

CPSY 8994 Research Problems in Child Psychology

**1-6 credit(s), max credits 15, 15 completions allowed; prereq
Doctoral student or instr consent;**

Instructor: Yonas,Albert

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

CPSY 8994 Research Problems in Child Psychology

**1-6 credit(s), max credits 15, 15 completions allowed; prereq
Doctoral student or instr consent;**

Instructor: Gewirtz,Abigail

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

CPSY 8994 Research Problems in Child Psychology

**1-6 credit(s), max credits 15, 15 completions allowed; prereq
Doctoral student or instr consent;**

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 15, 15 completions allowed; prereq
Doctoral student or instr consent;**

Instructor: Reynolds,Arthur J.

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

CPSY 8994 Research Problems in Child Psychology

**1-6 credit(s), max credits 15, 15 completions allowed; prereq
Doctoral student or instr consent;**

Instructor: Crick,Nicki R

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

CPSY 8994 Research Problems in Child Psychology

**1-6 credit(s), max credits 15, 15 completions allowed; prereq
Doctoral student or instr consent;**

Instructor: Ge,Xiaojia

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

CPSY 8994 Research Problems in Child Psychology

**1-6 credit(s), max credits 15, 15 completions allowed; prereq
Doctoral student or instr consent;**

Instructor: Weinberg,Richard A

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

CPSY 8994 Research Problems in Child Psychology

**1-6 credit(s), max credits 15, 15 completions allowed; prereq
Doctoral student or instr consent;**

Instructor: Zelazo,Philip David

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

CPSY 8994 Research Problems in Child Psychology

CPSY 8994 Research Problems in Child Psychology**1-6 credit(s), max credits 15, 15 completions allowed; prereq****Doctoral student or instr consent;****Instructor:** Carlson, Stephanie M

Description: Overview: This course will provide a general overview of the primary issues, methods, and findings in the field of cognitive development. We will examine the development of processes involved in perception, language, knowledge acquisition, reasoning, and the control of behavior, including consideration of the sociocultural context in which these processes develop. The course will begin with a review of some major theories of cognitive development and the empirical observations on which they are based. Current issues & findings will be introduced with reference to these theories. Some background in the scientific study of child development is assumed. Class Format: Typically, the instructors will lecture on Tuesday of each week and lead a seminar discussion on the same topic on Thursday. Students will be expected to participate in the seminar discussions.

CPSY 8994 Research Problems in Child Psychology**1-6 credit(s), max credits 15, 15 completions allowed; prereq****Doctoral student or instr consent;****Instructor:** Koenig, Melissa

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

Child and Adolescent Psychiatry*F-256/2b West***CAPY 5660 ADHD Throughout the Life Span: Perspectives on Diagnosis, Assessment, and Developmental Course****1 credit(s); prereq Upper div; Credit will not be granted if credit has been received for: CAPY 5620;****Instructor:** August, Gerald

Description: ADHD is reviewed from its beginnings in the toddler years to its later adult manifestations. Topics covered include (i) description of diagnostic criteria; (ii) other disorders which commonly coexist with ADHD; (iii) assessment methods; (iv) medication and behavioral treatment approaches; and (v) school-based interventions.

CAPY 5666 Aggression and Conduct Problems in Children and Adolescents**1 credit(s);****Instructor:** Bloomquist PhD, Michael Leonard

Description: This course begins with a description of the characteristics, developmental course, and associated risk factors that are seen in children with aggression and conduct problems. The biological, parent/family, social/peer, and contextual (e.g., neighborhood, school, societal, etc.) causes and correlates will be reviewed. The major emphasis of the course is the delineation of a developmentally focused, multi-systemic model of evidence-based intervention that comprehensively focuses on reducing risks and promoting protective factors in child, parent/family, social/peer, and contextual life domains. This includes discussion of social competence training procedures, mental health interventions (including medications), and academic skills building strategies, parent and family skills training, and various school and community interventions. Multicomponent and coordinated service models of comprehensive intervention will be highlighted. Finally, the course will address strategies for engaging families in intervention, and making interventions culturally compatible.

CAPY 5671 Suicide Prevention: Examining What Interventions May Alter Suicide Risk**1 credit(s);****Instructor:** Klimes-Dougan, Bonnie

Description: This is an introductory course for students or professionals who have little to moderate experience with mental health or the topic of suicide prevention. Suicide is examined from a range of perspectives by understanding differences

across sex, development, and culture. Suicide prevention techniques are discussed including universal, targeted, and indicated approaches to prevention. Controversies in the field of suicide prevention will be highlighted. Case studies, research, and theory will be discussed. Group participation is encouraged.

Chinese*453 Folwell Hall***CHN 1011 Beginning Modern Chinese****6 credit(s); Credit will not be granted if credit has been received for: CHN 4001;****Instructor:** Stone, Jin YaLiang

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

CHN 1011 Beginning Modern Chinese**6 credit(s); Credit will not be granted if credit has been received for: CHN 4001;****Instructor:** Wang, Ling

Description: This is the first semester of a two-semester sequence in first-year modern Standard Chinese (Mandarin) for undergraduate students who are non-heritage speakers of Chinese. Students are introduced to the sounds of Mandarin, basic grammar, vocabulary, and the Chinese writing system. The course consists of two lectures and five recitation classes per week. By the end of the first semester, students are expected to be able to write about 270 Chinese characters, recognize about 400 characters, conduct a basic conversation, read simple texts or conversations, and write some correct sentences in Chinese. Textbook: "Integrated Chinese," Level One, Part One, Tao-chung Yao, et. al., Cheng & Tsui Company / 1997

Style: 30% Lecture, 70% Discussion.

Grading: 10% mid exam, 15% final exam, 15% quizzes, 20% laboratory evaluation, 25% other evaluation. Homework; 15% Tests

Exam Format: Listening, reading, writing, and oral interview

CHN 1015 Accelerated Beginning Modern Chinese**5 credit(s); prereq Oral/aural skills or speaker of other Chinese dialect recommended credit will not be granted if credit received for: 1011 or 1012;;****Instructor:** Stone, Jin YaLiang

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

CHN 3021 Intermediate Modern Chinese**5 credit(s); prereq 1012 or 1015 or equiv or instr consent; Credit will not be granted if credit has been received for: CHN 4003;****Instructor:** Li, Chi-Ping

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

CHN 3031 Advanced Modern Chinese**4 credit(s); prereq 3022 or equiv or instr consent;****Instructor:** Li, Chi-Ping

Description: CHN 3031 Advanced Modern Chinese Prerequisite: 3022 or equiv or instructor consent, 4 credits. This course will be open to students who have completed two years of Chinese language curriculum at the University of Minnesota and the equivalent. The focus will be on improving reading skills, building vocabulary, mastering new sentence structures and expressing one's ideas and opinions (especially about the readings) in both spoken and written Chinese. Both prepared and unprepared (spontaneous) responses to the written materials will be focused on in classroom sessions (i.e. memorization of short passages, sight reading and Q&A sessions). Teaching materials are all related to contemporary issues in China and a modern Chinese movie. We will attempt to develop a sense of spontaneity and confidence in dealing with the type of contingent situations confronted daily when one is in a foreign-language environment. To this end, significant stress

will be placed on teaching students to use the Chinese they know as a tool for mastering the Chinese they don't know.
Textbook: All Things Considered (Advanced Reader of Modern Chinese). Edited by Chih-ping Chou, Yan Xia and Meow Hui Goh. Princeton University Press Movie: To Live (By Zhang YiMou)

Style: 25% Lecture, 55% Discussion, 5% Small Group Activities, 5% Student Presentation, 5% Demonstration, 5% Web Based.
Grading: 20% mid exam, 20% final exam, 20% written homework, 20% additional semester exams, 10% attendance, 10% class participation.

CHN 3031 Advanced Modern Chinese

4 credit(s); prereq 3022 or equiv or instr consent;

Instructor: Wang,Ling

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

CHN 3201 Chinese Calligraphy

2 credit(s);

Instructor: Zhang,Hong

Description: A beginning course in Chinese Calligraphy. Chinese language background is NOT required. Lectures include introducing various Chinese Calligraphy techniques and exposing students to Chinese Calligraphy history and the cultural background in general. Students will be taught to develop a sense of self-cultivation through the art of Chinese Calligraphy. Practicing in the class will give students hands-on experience of proper use of Chinese brush and ink to write Chinese characters. Students will also have the opportunity to write Chinese Couplets, Chinese poems and to learn the literature and meaning of the calligraphy projects. The Calligraphy book written by the instructor will be used.

Style: 30% Lecture, 10% Discussion. Classroom exercises, with instructor's coaching students individually

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

CHN 4001 Beginning Modern Chinese

3 credit(s); prereq Grad student; Credit will not be granted if credit has been received for: CHN 1011;

Instructor: Stone,Jin YaLiang

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

CHN 4001 Beginning Modern Chinese

3 credit(s); prereq Grad student; Credit will not be granted if credit has been received for: CHN 1011;

Instructor: Wang,Ling

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

CHN 4003 Intermediate Modern Chinese

3 credit(s); prereq 4002, grad student; Credit will not be granted if credit has been received for: CHN 3021;

Instructor: Li,Chi-Ping

Description: This is the first half of a two-semester sequence in second year modern standard Chinese (Mandarin). It is designed for students who have completed Chn 1012 or 1015 at the U of M, or the equivalent. It will help students improve their ability to understand, speak, read, and write Chinese, and particularly aims at helping students enlarge their vocabulary and learn more complex sentence structures. Students will also be trained to write good compositions to express their views. Those who have not completed Chn 1012 or 1015 at the U of M, but wish to enroll in this course, need the instructor's approval. Textbook: "Integrated Chinese" (Level 2, 2nd edition), by Yuehua Liu, et al, Cheng & Tsui Company, 2006.

Style: 40% Lecture, 60% Discussion.

Grading: 15% mid exam, 20% final exam, 20% quizzes, 15% class participation, 25% other evaluation. Homework, 5% Vocabulary Quizzes

Exam Format: Listening, reading, writing

CHN 4005 Accelerated Beginning Modern Chinese

3 credit(s); prereq Grad student, instr consent ; oral/aural

skills or other Chinese dialect recommended credit will not be granted if credit received for: 1011, 1012;

Instructor: Stone,Jin YaLiang

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

CHN 4007 Advanced Modern Chinese

3 credit(s); prereq 4004, grad student;

Instructor: Li,Chi-Ping

Description: CHN 3031 Advanced Modern Chinese
Prerequisite: 3022 or equiv or instructor consent, 4 credits. This course will be open to students who have completed two years of Chinese language curriculum at the University of Minnesota and the equivalent. The focus will be on improving reading skills, building vocabulary, mastering new sentence structures and expressing one's ideas and opinions (especially about the readings) in both spoken and written Chinese. Both prepared and unprepared (spontaneous) responses to the written materials will be focused on in classroom sessions (i.e. memorization of short passages, sight reading and Q&A sessions). Teaching materials are all related to contemporary issues in China and a modern Chinese movie. We will attempt to develop a sense of spontaneity and confidence in dealing with the type of contingent situations confronted daily when one is in a foreign-language environment. To this end, significant stress will be placed on teaching students to use the Chinese they know as a tool for mastering the Chinese they don't know.
Textbook: All Things Considered (Advanced Reader of Modern Chinese). Edited by Chih-ping Chou, Yan Xia and Meow Hui Goh. Princeton University Press Movie: To Live (By Zhang YiMou)

Style: 25% Lecture, 55% Discussion, 5% Small Group Activities, 5% Student Presentation, 5% Demonstration, 5% Web Based.

Grading: 20% mid exam, 20% final exam, 20% written homework, 20% additional semester exams, 10% attendance, 10% class participation.

CHN 4041 Advanced Readings in Modern Chinese

4 credit(s); prereq 3032 or instr consent ;

Instructor: Wang,Ling

Description: This course will expose advanced students to various contemporary Chinese writings and improve their ability to read Chinese writings in the original and write articles in Chinese. The hope is that this will inspire students to further explore contemporary Chinese culture and society. In this course we will study Chinese writings of different styles in contemporary China, including short stories and essays written since 1949 to the present. These writings reflect Chinese society since the early 1950s. The course will also expose students to newly emerged Internet writing. The lectures and discussions will focus on the use of the language, the contents of the writings, and their reflection of contemporary Chinese society. At the same time, we will also try to explore the Chinese cultural and philosophical meanings found in those works. The course will be taught in Modern Standard Chinese (Mandarin). Reading Packet: ??????????by Dr. Zou, Zhen (??Dinky Dome ??Paradigm Course Resource??) Course website:
http://www.all.umn.edu/chinese_language/Courses/class_list.html
Course Requirement: Pre-class preparation is critical in this course before each class; students are expected to study assigned readings. Please familiarize yourself with the new words of the reading text and try to answer the questions on the text so that you can contribute to class discussion. Grading Attendance and performance 10% Portfolio of articles ? 15% Quiz? 10% Howework? 15% Presentation? 10% Midterm? 10% Final? 15% Course paper? 15%

CHN 5040 Readings in Chinese Texts

A-F only, 3 credit(s), max credits 12, 4 completions allowed; prereq 4042 or equiv or instr consent ;

Instructor: Zou,Zhen

Description: Prerequisite: 3-4 years of college Chinese or equivalent or instructor consent Instructor: Zou, Zhen In the fall semester, the contents of the Chinese 5040 course include contemporary Chinese short stories, novelettes, and prose written since 1950 to the present, especially in the 1980s, 1990s,

and 2000s, a peak time of Chinese literature since China's reform and open to the world. These literary works explore various aspects of contemporary Chinese society, history, and culture, including social prejudices against the mentally and physically disadvantaged, the Cultural Revolution, the drug problem, male-female relationship, education, parental love (and lack thereof), traditional Chinese view of life, rape and sex, and hot issues discussed in Taiwan. Class discussion will focus on the use of the language, the social interpretation of the texts, and the Chinese cultural and philosophical messages found in those works. The course will be taught in standard modern Chinese (Mandarin). Class time: 65% Discussion, 30% Lecture, 5% Lab, film and internet. Work load: 10-20 Pages of reading per week, quizzes, 2 exams, oral reading presentation, and a final essay. Grade: 15% class participation, 15% quizzes, 20% midterm exam, 20% final exam, 10% reading presentation, 20% final essay. Exam format: Short answers and essay questions.

CHN 5393 Directed Study

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

CHN 5393 Directed Study

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

CHN 5393 Directed Study

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

Civil Engineering

122 Civil Engineering Building

CE 1101 Civil Engineering Orientation

S-N only, 1 credit(s); prereq Lower div;
Instructor: LaPara, Timothy M
Description: Student may contact the instructor or department for information.

CE 3101 Computer Applications in Civil Engineering I

A-F only, 3 credit(s); prereq MATH 1272, PHYS 1301, IT;
Instructor: Barnes, Randal J
Description: Student may contact the instructor or department for information.

CE 3102 Uncertainty and Decision Analysis in Civil Engineering

A-F only, 3 credit(s); prereq [Math 1371, Math 1372] or equiv;
Instructor: Davis, Gary Arnold
Description: Student may contact the instructor or department for information.

CE 3111 CADD for Civil Engineers

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

CE 3201 Transportation Engineering

3 credit(s); prereq Phys 1301;
Instructor: Levinson, David M
Description: Student may contact the instructor or department for information.

CE 3202 Surveying and Mapping

A-F only, 2 credit(s); prereq [MATH 1271, MATH 1272IT] or construction management;
Instructor: Johnson, Ann M
Description: Theory of precision measurements of distance, elevation, angle, and direction of points and lines above, on, or beneath the earth's surface; establishing such points or lines. Elements of coordinate systems, datum planes, and maps.

CE 3301 Soil Mechanics I

A-F only, 3 credit(s); prereq IT, AEM 3031; Credit will not be granted if credit has been received for: GEOE 3301;
Instructor: Detournay, Emmanuel Michel
Description: Student may contact the instructor or department for information.

CE 3301 Soil Mechanics I

A-F only, 3 credit(s); prereq IT, AEM 3031; Credit will not be granted if credit has been received for: GEOE 3301;
Instructor: Detournay, Emmanuel Michel
Description: Student may contact the instructor or department for information.

CE 3401 Linear Structural Analysis

A-F only, 3 credit(s); prereq Grade of at least C- in AEM 3031, IT;
Instructor: Schultz, Arturo Ernest
Description: Student may contact the instructor or department for information.

CE 3402 Construction Materials

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

CE 3501 Environmental Engineering

A-F only, 3 credit(s); prereq Chem 1022, Phys 1302; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Environment Theme;
Instructor: Semmens, Michael John
Description: Student may contact the instructor or department for information.

CE 3502 Fluid Mechanics

A-F only, 4 credit(s); prereq [AEM 2012 or AEM 3031], Math 2373, [IT or ForP major];
Instructor: Hill, Kimberly M.
Description: Student may contact the instructor or department for information.

CE 3502 Fluid Mechanics

A-F only, 4 credit(s); prereq [AEM 2012 or AEM 3031], Math 2373, [IT or ForP major];
Instructor: Hill, Kimberly M.
Description: Student may contact the instructor or department for information.

CE 4101W Project Management

3 credit(s); prereq Upper div IT or construction management; Meets CLE req of Writing Intensive;
Instructor: Eiler, Tim
Description: Survey of broad areas in engineering project management and economics. Project planning, scheduling, and controlling; budgeting, staffing, task and cost control; communicating with, motivating, leading, and managing conflict among team members; engineering economics.

CE 4101W Project Management

3 credit(s); prereq Upper div IT or construction management; Meets CLE req of Writing Intensive;
Instructor: Andersen, Darrell
Description: Student may contact the instructor or department for information.

CE 4102W Capstone Design

A-F only, 4 credit(s); prereq 4301, 4401, 4501, 4502; Meets CLE req of Writing Intensive;

Instructor: Eickenberg,Paul Thomas

Description: Teams of 3 - 5 students solve civil engineering problems posed by practicing engineers (mentors). Student work progresses from problem description and formulation of objectives, through conceptual solutions, preliminary planning and analysis, design and environmental impact assessment, to feasibility plans and specifications, cost analysis, and recommendations. Each team makes three presentations. Draft reports and a final project report are reviewed.

Style: 5% Lecture, 10% Discussion, 50% Small Group Activities, 20% Student Presentation, 10% Demonstration, 5% Guest Speakers. Team work on an engineering project

Grading: 60% reports/papers, 5% attendance, 30% in-class presentation, 5% class participation.

CE 4102W Capstone Design

A-F only, 4 credit(s); prereq 4301, 4401, 4501, 4502; Meets CLE req of Writing Intensive;

Instructor: Stefan,Heinz G

Description: Teams of 3 - 5 students solve civil engineering problems posed by practicing engineers (mentors). Student work progresses from problem description and formulation of objectives, through conceptual solutions, preliminary planning and analysis, design and environmental impact assessment, to feasibility plans and specifications, cost analysis, and recommendations. Each team makes three presentations. Draft reports and a final project report are reviewed.

Style: 5% Lecture, 10% Discussion, 50% Small Group Activities, 20% Student Presentation, 10% Demonstration, 5% Guest Speakers. Team work on an engineering project

Grading: 60% reports/papers, 5% attendance, 30% in-class presentation, 5% class participation.

CE 4190 Engineering Co-op Assignment

S-N only, 2-6 credit(s), max credits 6, 1 completion allowed; prereq Upper div CE, approval of department co-op director;

Instructor: Gulliver,John Stephen

Description:

Style: Industry work assignment

Grading: 100% reports/papers.

CE 4251 Pavement Analysis, Design, and Rehabilitation

4 credit(s); prereq [3201, 3301, 3402, upper div IT] or grad student or instr consent ;

Instructor: Khazanovich,Lev

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

CE 4301 Soil Mechanics II

A-F only, 3 credit(s); prereq [[3301 or GeoE 3301], upper div IT] or instr consent; Credit will not be granted if credit has been received for: GEOE 4301;

Instructor: Guzina,Bojan B

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

CE 4311 Rock Mechanics

A-F only, 4 credit(s); prereq 3301 or GeoE 3301 or instr consent ;

Instructor: Labuz,Joseph F

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

CE 4351 Groundwater Mechanics

A-F only, 3 credit(s); prereq Upper div IT or grad, CE 3502 or instr consent; Credit will not be granted if credit has been received for: GEOE 4351;

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); prereq Grade of at least C- in 3401,

concurrent enrollment 3402, [upper div IT or grad student];

Instructor: Shield,Carol K

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

CE 4411 Matrix Structural Analysis

A-F only, 3 credit(s); prereq [Grade of at least C- in [3101, 3401] or in a CSci programming course], [upper div IT or grad student]] or instr consent;

Instructor: Wojtkiewicz Jr,Steven F

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

CE 4413 Steel Design II

A-F only, 3 credit(s); prereq [Grade of at least C- in 4401, [upper div IT or grad student]] or instr consent; 4411 recommended;

Instructor: Okazaki,Taichiro

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

CE 4501 Hydrologic Design

A-F only, 4 credit(s); prereq 3502;

Instructor: Porte-Agel,Fernando

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

CE 4502 Water and Wastewater Treatment

A-F only, 3 credit(s); prereq 3501;

Instructor: Hozalski,Raymond M

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

CE 4511 Hydraulic Structures

A-F only, 3 credit(s); prereq 4501;

Instructor: Stefan,Heinz G

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

CE 4591 Environmental Law for Engineers

A-F only, 3 credit(s); prereq upper div IT or grad or instr consent ;

Instructor: Braaten,Bruce C

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

CE 5180 Special Topics: Introductory Environmental Fluid Mechanics

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

Instructor: Hondzo,Miki

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

CE 5180 Special Topics: Special Topics in Geomechanics

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

Instructor: Drescher,Andrew

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

CE 5180 Special Topics: Air Quality Management

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

Instructor: Marshall,Julian

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

CE 5212 Transportation Policy, Planning, and Deployment

4 credit(s); prereq 3201 or equiv;

Instructor: Levinson,David M

Description: This course aims to provide an environment for students to learn essential facts and develop models and frameworks to understand the development of transportation policy, the making of transportation plans, and the deployment of

transportation technologies. The course uses a mixture of traditional lectures (generally on Mondays), and interactive learning through case studies and role playing (generally on Wednesdays). Both the lectures and the cases allow the students to develop an inductive understanding of transportation. The course will be successful if at the end, the student has developed a worldview on transportation (not necessarily the same as the instructor's), and has an appreciation for merits and demerits of various points of view on transportation issues. The course seeks an integrative approach for transportation, and though the stories in lecture will be told mode by mode, there are a number of opportunities to see the relationships between modes, in their structure in function, and in the learning as one mode adopts successful (and unsuccessful) attributes of others.
Style: 50% Lecture, 50% Discussion.
Grading: 20% mid exam, 20% final exam, 40% reports/papers, 20% class participation.

CE 5411 Applied Structural Mechanics

A-F only, 3 credit(s); prereq [Grade of at least C- in 4401, [upper div IT or grad student]] or instr consent;
Instructor: Stolarski, Henryk Konstanty
Description: Student may contact the instructor or department for information.

CE 5541 Environmental Water Chemistry

A-F only, 3 credit(s), max credits 4, 1 completion allowed;
prereq 3501, Chem 1021, Chem 1022;
Instructor: Brezonik, Patrick L
Description: Student may contact the instructor or department for information.

CE 5551 Environmental Microbiology

A-F only, 3 credit(s); prereq [Upper div or grad] student;
Instructor: Novak, Paige J
Description: Student may contact the instructor or department for information.

CE 5552 Environmental Microbiology Laboratory

A-F only, 1 credit(s); prereq 5551 or Concurrent registration is required (or allowed) in 5551;
Instructor: Novak, Paige J
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 8213 Advanced Transportation Technologies Seminar

S-N only, 1 credit(s); Credit will not be granted if credit has been received for: ME 8772;
Instructor: Donath, Max
Description: Student may contact the instructor or department for information.

CE 8231 Advanced Pavement Engineering

3 credit(s); prereq 4231 or instr consent;
Instructor: Khazanovich, Lev
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: Detournay, Emmanuel Michel
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 8402 Nonlinear Finite Element Analysis

A-F only, 3 credit(s); prereq 8401 or instr consent; offered alt yrs;
Instructor: Stolarski, Henryk Konstanty
Description: Student may contact the instructor or department for information.

CE 8421 Structural Dynamics

A-F only, 3 credit(s); prereq [3401, AEM 2012] or instr consent; concurrent enrollment 4411 recommended;
Instructor: Wojtkiewicz Jr, Steven F
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;
prereq grad CE major or instr consent;
Instructor: Semmens, Michael John
Description: Student may contact the instructor or department for information.

CE 8503 Environmental Mass Transport

A-F only, 4 credit(s); prereq 3502, 3501 or equiv or instr consent;
Instructor: Gulliver, John Stephen
Description: Student may contact the instructor or department for information.

CE 8506 Stochastic Hydrology

A-F only, 4 credit(s); prereq Stat 3021 or equiv or instr consent;
Instructor: Foufoula, Efi
Description: Student may contact the instructor or department for information.

CE 8542 Chemistry of Organic Pollutants in Environmental Systems

A-F only, 3 credit(s); prereq [4541, 5541] or instr consent;
Instructor: Arnold, Bill
Description: Student may contact the instructor or department for information.

CE 8601 Introduction to Stream Restoration

A-F only, 3 credit(s);
Instructor: Paola, Chris
Description: Student may contact the instructor or department for information.

Classical Civilization

245 Nicholson Hall

CLCV 3081W Classical Epic in Translation

3 credit(s); prereq Classical Civilization major or instr consent ; Credit will not be granted if credit has been received for: CLAS 3081W; Meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: Belfiore, Elizabeth S
Description: This course will study three major epics of Greece and Rome: Homer's Iliad and Odyssey, and Virgil's Aeneid. It will concentrate on the epics as literature, with some discussion of their historical and social context. Classes will be a combination of lecture, whole class and small group discussions. Class participation required. No previous knowledge of Greek or Latin language, literature, history or culture required, but students should have had some experience reading and writing about literature. Suitable for majors, non-majors, and graduate students in departments other than CNES. Because this is a writing intensive course, your grades on exams, papers and short essays will be based in part on your ability to express

yourself in clear, idiomatic, and grammatically correct English, and to present your views in a narrative that is well-organized and easy to follow.

Style: 35% Lecture, 10% Film/Video, 35% Discussion, 20% Small Group Activities.

Grading: 45% mid exam, 45% reports/papers, 10% written homework. 3 exams of equal weight. some extra credit assignments given. class participation taken into account in borderline cases

Exam Format: essay, short answers, multiple choice

CLCV 3993 Directed Studies in Classical Civilization

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

Instructor: STAFF

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

CLCV 3994 Directed Research in Classical Civilization

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

Instructor: STAFF

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

Classical and Near Eastern Studies *245 Nicholson Hall*

CNES 1002 World of Greece

3 credit(s); prereq credit will not be granted if credit received for: CLAS 1008; Meets CLE req of Historical Perspective Core;

Instructor: STAFF

Description: This course will introduce students to the culture, art, history, literature, and philosophy of ancient Greece from Mycenaean times to the Hellenistic Age. What influences were there on Greek culture? How did Greek culture develop and change over time? What values were important to the Greeks? In various realms (art, architecture, literature, history, philosophy, poetry) the Greeks inspired and might even be said to have created Western civilization, to such an extent that their influence continues today. Attention will also be devoted to questions of how Greek innovation became so widespread, and how their influence continues today.

Grading: 30% mid exam, 40% final exam. 2 midterms, 1 final exam

Exam Format: short-answer essays (all), long essay (final only), true/false, multiple choice, map and date identifications. Exams are not cumulative except for the long essay on the final.

CNES 1042 Greek and Roman Mythology

4 credit(s); prereq credit will not be granted if credit received for: CLAS 1042, 1042H; Credit will not be granted if credit has been received for: CNES 1042H; Meets CLE req of Other Humanities Core;

Instructor: Krevans,Nita

Description: A survey of Greek and Roman mythology, including near eastern parallels and influences. We will use both ancient and modern primary sources to study the gods, heroes and monsters whose stories continue to influence the production of art and literature in the modern world. Readings include Greek tragedy, Homer, the epic of Gilgamesh, and Ovid, as well as extended excerpts from numerous ancient authors. Lectures include slides and film clips to permit an understanding of visual representations of the mythic world. Students will analyze a modern adaptation of a myth for their final project.

Style: 50% Lecture, 50% Discussion. two lectures and one seminar-style discussion each week This class has an associated evening film series; students who cannot make the film times have other options for viewing.

Grading: 20% mid exam, 30% final exam, 15% reports/papers, 35% class participation.

Exam Format: short answer/essay

CNES 1042 Greek and Roman Mythology

4 credit(s); prereq credit will not be granted if credit received for: CLAS 1042, 1042H; Credit will not be granted if credit has been received for: CNES 1042H; Meets CLE req of Other Humanities Core;

Instructor: Woods,Heather A

Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. This course provides an introduction to the myths of ancient Greece and Rome. When they were originally told, they were not only forms of entertainment but also modes of communication and instruction, and they still exercise tremendous influence today. From symbols used in advertisements and other forms of popular culture to the topics and characters presented in philosophy, literature, and music, we can see that many of the issues explored in mythology are still relevant. In this course you will study Greek and Roman myths in a number of ways. You will do an online search for information about the gods and a map assignment of the mythological places and characters; you will also read several tragic dramas and one of the great Greek epics and will write critical essays on those you find the most interesting; and you will have the chance to become a creator of myths yourself. By the end of this course, you should be able to discuss: --the main Greek and Roman gods and the major myths associated with them --the plot, theme, and interpretation of several Greek and Roman myths --some of the major theories of myth interpretation --the possible definitions and uses of myth. Course Outline 1. Introduction 2. Order and Disorder: Creation Myths 3. Love and Honor: Aphrodite and Artemis 4. Mystery Religions: Demeter and Dionysus 5. Music and Meaning: Apollo, Athena, and Hermes 6. Midcourse Exam 7. Odyssey 1 8. Odyssey 2 9. Roman Myth 10. Heroes 11. Heroes Revisited 12. Final Exam Grading: --You must submit all written assignments and exams (for 11 out of the 12 lessons) to receive course credit even though 2 of the 11 will not be graded. The submission for lesson 1 will be graded on an S/N basis, and the assignment for lesson 5, a practice exam, will not be graded but you must turn it in before you take the midcourse exam. --If you are taking the course S/N, you must earn a grade of C- or higher, or a minimum of 70%, for a grade of S. --"Incomplete" grades will be given only in extremely unusual circumstances for those who have completed half the required coursework. The student and instructor will sign a contract setting a new completion date. --Students who engage in academic misconduct will receive a grade of F (or N). Course Texts --Morford, Mark P. O., and Robert J. Lenardon. Classical Mythology. 7th ed. New York: Oxford University Press, 2003. --Hesiod. Works and Days, Theogony. Translated by Stanley Lombardo. Indianapolis: Hackett, 1993. --Euripides. Ten Plays. Translated by Paul Roche. New York: Signet Classic, 1998. --Sophocles. The Three Theban Plays. Translated by Robert Fagles. New York: Penguin, 1984. --Homer. The Odyssey. Translated by Robert Fagles. New York: Penguin, 1996.

Style: 100% Web Based.

Grading: 15% mid exam, 15% final exam, 30% reports/papers, 40% special projects. Also 1 WebCT assignment and 1 practice exam required but not graded Your grade will be determined as follows: 93-100%= A 90-92%= A- 87-89%= B+ 83-86%= B 80-82%= B- 77-79%= C+ 73-76%= C 70-72%= C- 67-69%= D+ 60-66%= D 0-59%= F

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

CNES 1042H Honors Course: Greek and Roman Mythology

4 credit(s); prereq Honors or instr consent ; Credit will not be granted if credit has been received for: CNES 1042; Meets CLE req of Other Humanities Core;

Instructor: Krevans,Nita

Description: A survey of Greek and Roman mythology, including near eastern parallels and influences. We will use both ancient and modern primary sources to study the gods, heroes and monsters whose stories continue to influence the production of art and literature in the modern world. Readings include Greek tragedy, Homer, the epic of Gilgamesh, and Ovid, as well as extended excerpts from numerous ancient authors. Lectures include slides and film clips to permit an understanding of visual

representations of the mythic world. Students will analyze a modern adaptation of a myth for their final project.

Style: 50% Lecture, 50% Discussion. two lectures and one seminar-style discussion each week This class has an associated evening film series; students who cannot make the film times have other options for viewing.

Grading: 20% mid exam, 30% final exam, 15% reports/papers, 35% class participation.

Exam Format: short answer/essay

CNES 1043 Introduction to Greek and Roman Archaeology
4 credit(s); prereq credit will not be granted if credit received for: CLAS 1043; Meets CLE req of Historical Perspective Core;

Instructor: Berlin, Andrea

Description: Archaeology provides the material evidence for understanding past lives. In Greek and Roman archaeology we study the peoples of the ancient Mediterranean and Near East from about 1500 BCE until 350 CE. We begin at ancient Troy, where we examine the intersection of legend and poetry with the site's physical remains. We look at the archaeological evidence of government: democracy in ancient Greece; empire in the Near East; and the Roman republic. We examine the remains of ancient houses and consider what they tell us about the lifestyles of various ethnic groups. We follow the rise of the Roman empire and study how the emperors used images to affect and persuade the people they ruled. Finally we see how the transformation of religious, civic, and personal space in the third, fourth, and fifth centuries CE signals the end of antiquity and foreshadows the patterns of Medieval life. Greek and Roman archaeology provides time-capsule views of peoples living in a deeply material world, within complicated, class-riven societies surprisingly similar to our own. By learning to "read" the ancient material record as archaeologists do, you may acquire a new view of our own times.

Style: 75% Lecture, 25% Discussion.

Grading: 95% reports/papers, 5% class participation.

Attendance in each of the six class-wide discussion days, which occur every other week, will raise your course grade by 5%.

CNES 1046 Technical Terminology for the Health Professions
3 credit(s); prereq credit will not be granted if credit received for: CLAS 1148;

Instructor: Willey, Andrew James

Description: This is a fully online section offered online through Online and Distance Learning (ODL), College of Continuing Education. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. In this course you will be learning a new language: Medical Terminology. Although only used in a specialized, technical environment (you cannot order a train ticket in Medical Terminology) it is nevertheless a vocabulary in its own right, with its own history and rules of morphology (word-formation). This course emphasizes linguistics and etymology in learning Medical Terminology. Rather than attempt to impart all the specialized vocabulary necessary for the study of, e.g. anatomy or physiology, in this course you will learn how medical terms are constructed from Greek and Latin prefixes, roots, and suffixes. You will also learn by heart most of the commonly found roots of medical terms. Armed with this knowledge, you will have the skills and knowledge to "decode" or "translate" unfamiliar terms as you come upon them. In addition, you will also possess a solid base of vocabulary to build upon--whatever your future involvement in the health professions may be, as a doctor, nurse, occupational therapist, or simply as an occasional patient. Course Outline After completing this course, you should be able to: 1. Give the component parts (prefixes, roots, suffixes, and combining vowels) used to build common medical terms; 2. Divide medical terms into their component parts; 3. Build, spell, pronounce, and define medical terms; and 4. Provide etymologies (word-histories) for basic roots of medical terms. Course Materials --Rice, Jane. The Terminology of Health & Medicine: A Self-Instructional Program (with CD-ROM). Upper Saddle River, NJ: Prentice Hall, 2003. --Scarborough, John. Medical and Biological Terminologies: Classical Origins. Norman, OK: University of Oklahoma Press, 1998. (Please see the uploaded syllabus for more information.)

Supplemental Materials: Additional reading materials are included in a course packet sent to you. They consist of one reprinted article entitled Fundamentals of Medical Etymology and 15 Word Elements Study Sheets that will reinforce the content of the Rice textbook.

Style: 100% Web Based.

Grading: 40% final exam, 60% quizzes. Quizzes: 350 possible points* Exam: 115 possible points *Only the 14 best quizzes are counted towards the final grade (the lowest score is dropped); if only 14 quizzes are submitted, all are counted. See the syllabus for more information.

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

CNES 3072 The New Testament

3 credit(s); Credit will not be granted if credit has been received for: RELS 3072; Meets CLE req of Historical Perspective Core;

Instructor: Roetzel, Calvin J

Description: Was Jesus a Christian or a Jewish prophet? Did later interpreters distort the simple religion of this Galilean charismatic teacher who spoke of the essence of a true religion? Was Paul an anti-feminist or a woman's liberationist? Was he an anti-Semite or a Jew on the margins and one of the most creative thinkers of the early Jesus movement? How did the early church select its scriptures for a New Testament? And why and how were only four gospels selected and many others excluded? These and other questions we will pose in this historical study of the New Testament in its Graeco-Roman and Jewish context. The course will emphasize the nature and variety of religious expression in the early Church; it will treat the gospels in their historical setting, and it will study selected heated discourses between Paul and his churches in a treatment of his letters as conversations. It will also deal with some early interpreters of Paul in the New Testament, and will consider the message of Revelation for a persecuted church. The course will finally sample texts from the Gnostic Gospels of the second century.

Style: 75% Lecture, 25% Discussion.

Grading: 20% final exam, 10% special projects, 70% quizzes.

Exam Format: 30% multiple choice, 70% essay

CNES 3081W Classical Epic in Translation

3 credit(s); Credit will not be granted if credit has been received for: CLAS 3081W; Meets CLE req of Literature Core; meets CLE req of Writing Intensive;

Instructor: Belfiore, Elizabeth S

Description: This course will study three major epics of Greece and Rome: Homer's Iliad and Odyssey, and Virgil's Aeneid. It will concentrate on the epics as literature, with some discussion of their historical and social context. Classes will be a combination of lecture, whole class and small group discussions. Class participation required. No previous knowledge of Greek or Latin language, literature, history or culture required, but students should have had some experience reading and writing about literature. Suitable for majors, non-majors, and graduate students in departments other than CNES. Because this is a writing intensive course, your grades on exams, papers and short essays will be based in part on your ability to express yourself in clear, idiomatic, and grammatically correct English, and to present your views in a narrative that is well-organized and easy to follow.

Style: 35% Lecture, 10% Film/Video, 35% Discussion, 20% Small Group Activities.

Grading: 45% mid exam, 45% reports/papers, 10% written homework. 3 exams of equal weight. some extra credit assignments given. class participation taken into account in borderline cases

Exam Format: essay, short answers, multiple choice

CNES 3108 Age of St. Augustine of Hippo

3 credit(s); prereq credit will not be granted if credit received for: CLAS 3024; Credit will not be granted if credit has been received for: CLAS 1024; Meets CLE req of Historical Perspective Core;

Instructor: Nicholson, Oliver

Description: This course is an introduction to a formative period

in the history of Europe and the Near East. The years 365-500 AD. saw Christianity take root as the dominant religion of the Roman Empire, they saw developing relations between Rome and the Persian Empire, they saw Western Europe threatened by warlike horsemen from the steppes of central Asia and invaded by Germanic tribes who came eventually to form the nations of modern Europe. We shall study these historical changes across a wide range of civilizations, from the savage Huns and their fearsome leader Atilla, the "Scourge of God", to the solemn ceremonial of the early Byzantine court, and the lively city of Constantinople which surrounded it. We shall also consider in detail the writings of the two most influential authors of the period, Boethius's "Consolation of Philosophy" and Augustine's "Confessions", one of the most honest autobiographies ever written. The emphasis of all readings will be on texts written at the time (in English translation). Everyone will write an essay. This will be history with the people left in. Come and meet folk like Augustine - he may be far away in time but his preoccupations are vividly recognizable now. There is something here for everyone, from those who know nothing about Late Antiquity to actual and potential Classics majors.

Style: Lecture-and-discussion

Grading: 10% mid exam, 40% final exam, 50% reports/papers.

Exam Format: 'Gobbets' - ancient passages set for comment

CNES 3162 Roman Art and Archaeology

4 credit(s); prereq =: CLAS 3162; Credit will not be granted if credit has been received for: ARTH 3162; Meets CLE req of Other Humanities Core;

Instructor: Mc Nally, Sheila J

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

CNES 3535 Death and the Afterlife in the Ancient World

3 credit(s); Credit will not be granted if credit has been received for: RELS 3535; Meets CLE req of Other Humanities Core;

Instructor: Sellw, Philip

Description: In this class we study attitudes, beliefs, and behaviors related to death and the afterlife found in the cultures of the ancient Mediterranean and Near East. Sources include literature, funerary art and epitaphs, as well as archaeological evidence for burial practices and care of the dead. The main objective of the course is to have us confront and explore a diverse set of responses to death and beliefs about the afterlife as found in ancient societies that may be more or less familiar to us. Art, literature, and mortuary practices alike help class participants (both the students and the professor) to confront and query our own expectations and attitudes. This approach enables us to consider our own experiences and expectations of death through a critical, analytical framework of historical and cultural comparison and not merely as personal response. The themes of mortality and care of the dead carry through all the topics, which are arranged more or less chronologically and geographically to consider Egypt, Mesopotamia, Canaan/Israel, Greece, Rome, early Judaism, and ancient Christianity. The final discussion paper may treat beliefs and practices surrounding death and/or the afterlife in a contemporary context that the student would like to analyze from the perspective of the course. The course will be web enhanced with WebCT.

Style: 70% Lecture, 30% Discussion.

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

Exam Format: midterm - short essays

CNES 3951W Major Project

4 credit(s); prereq Three 3xxx ANE courses, [major in ANE or CNEA or RelS], instr consent ; Meets CLE req of Writing Intensive;

Instructor: STAFF

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

CNES 5072 The New Testament

3 credit(s);

Instructor: Roetzel, Calvin J

Description: Was Jesus a Christian or a Jewish prophet? Did later interpreters distort the simple religion of this Galilean charismatic teacher who spoke of the essence of a true religion? Was Paul an anti-feminist or a woman's liberationist? Was he an anti-Semite or a Jew on the margins and one of the most creative thinkers of the early Jesus movement? How did the early church select its scriptures for a New Testament? And why and how were only four gospels selected and many others excluded? These and other questions we will pose in this historical study of the New Testament in its Graeco-Roman and Jewish context. The course will emphasize the nature and variety of religious expression in the early Church; it will treat the gospels in their historical setting, and it will study selected heated discourses between Paul and his churches in a treatment of his letters as conversations. It will also deal with some early interpreters of Paul in the New Testament, and will consider the message of Revelation for a persecuted church. The course will finally sample texts from the Gnostic Gospels of the second century.

Style: 75% Lecture, 25% Discussion.

Grading: 20% final exam, 10% special projects, 70% quizzes.

Exam Format: 30% multiple choice, 70% essay

CNES 5081W Classical Epic in Translation

3 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: CLAS 3081W; Meets CLE req of Writing Intensive;

Instructor: Belfiore, Elizabeth S

Description: This course will study three major epics of Greece and Rome: Homer's Iliad and Odyssey, and Virgil's Aeneid. It will concentrate on the epics as literature, with some discussion of their historical and social context. Classes will be a combination of lecture, whole class and small group discussions. Class participation required. No previous knowledge of Greek or Latin language, literature, history or culture required, but students should have had some experience reading and writing about literature. Suitable for majors, non-majors, and graduate students in departments other than CNES. Because this is a writing intensive course, your grades on exams, papers and short essays will be based in part on your ability to express yourself in clear, idiomatic, and grammatically correct English, and to present your views in a narrative that is well-organized and easy to follow.

Style: 35% Lecture, 10% Film/Video, 35% Discussion, 20% Small Group Activities.

Grading: 45% mid exam, 45% reports/papers, 10% written homework. 3 exams of equal weight. some extra credit assignments given. class participation taken into account in borderline cases

Exam Format: essay, short answers, multiple choice

CNES 5182 Art and the State: Public Art in the Roman Empire

3 credit(s); prereq Intro art history course or instr consent ; Credit will not be granted if credit has been received for: ARTH 5182;

Instructor: Mc Nally, Sheila J

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

CNES 5251 Archaeology of Herodian Israel

A-F only, 3 credit(s); prereq One course in [archaeology or ancient history] or grad student; Credit will not be granted if credit has been received for: RELA 5251;

Instructor: Berlin, Andrea

Description: In this course, we study the archaeological remains from sites in Israel dating from the reign of King Herod the Great (37-4 B.C.). We first focus on constructions by Herod himself: his fabulous palaces (Masada, Jericho, Herodium, Caesarea), as well as the magnificent religious structures he built for his various subjects (the Temple in Jerusalem for Jews, Roman-style temples at Caesarea and Samaria for pagans). Herod's buildings exhibit a mix of Roman, Near Eastern, and Hellenistic Greek styles, which is understandable given his position and the period in which he lived: he was a friend of Augustus Caesar, the first emperor of Rome; a Near Eastern monarch in the tradition of the Assyrians and Persians; and an artistic patron of Hellenistic

Greek culture. We also study remains from both Jewish and pagan settlements throughout Herod's kingdom, including Jerusalem, where the Jewish aristocracy lived; Qumran, village of the sect who wrote the Dead Sea Scrolls; Gamla, a prosperous Jewish village in the Golan Heights; and Caesarea, the city and harbor that Herod built for the comfort and prosperity of his pagan subjects. These exhibit an astonishing variety, and reflect the diversity of Herod's subjects. The course readings will consist of contemporary literary sources and excavation reports. The target audience is graduate students and committed undergraduates with relevant preparatory work.

Style: 75% Lecture, 25% Discussion.

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

CNES 5535 Death and the Afterlife in the Ancient World
3 credit(s); Credit will not be granted if credit has been received for: RELS 3535;

Instructor: Sellew, Philip

Description: In this class we study attitudes, beliefs, and behaviors related to death and the afterlife found in the cultures of the ancient Mediterranean and Near East. Sources include literature, funerary art and epitaphs, as well as archaeological evidence for burial practices and care of the dead. The main objective of the course is to have us confront and explore a diverse set of responses to death and beliefs about the afterlife as found in ancient societies that may be more or less familiar to us. Art, literature, and mortuary practices alike help class participants (both the students and the professor) to confront and query our own expectations and attitudes. This approach enables us to consider our own experiences and expectations of death through a critical, analytical framework of historical and cultural comparison and not merely as personal response. The themes of mortality and care of the dead carry through all the topics, which are arranged more or less chronologically and geographically to consider Egypt, Mesopotamia, Canaan/Israel, Greece, Rome, early Judaism, and ancient Christianity. The final discussion paper may treat beliefs and practices surrounding death and/or the afterlife in a contemporary context that the student would like to analyze from the perspective of the course. The course will be web enhanced with WebCT.

Style: 70% Lecture, 30% Discussion.

CNES 5796 Classical Texts: Approaches and Methods
3 credit(s); prereq CNES grad student or instr consent ;

Instructor: Nappa, Christopher

Description: This course will survey an array of approaches taken toward Greek and Latin literary texts. We will begin by looking briefly at typical ancient and late antique approaches to literature. We will also spend some time on the study of classical texts in the Middle Ages and Renaissance, before moving on to the variety of ways classical texts have been studied in and since the 19th century. Readings will be drawn from works on the history of classical scholarship, twentieth-century critical theory, and most importantly studies of classical texts themselves. The goal of this course is to introduce students to the variety of ways in which classical texts are read by professional scholars and to help students think carefully about the underlying assumptions that they bring to their own readings of classical texts.

Style: 30% Lecture, 45% Discussion, 25% Student Presentation.

Clinical Laboratory Science

D-242 Mayo (Box 609 UMHC)

CLS 5090 Special Laboratory Methods

A-F only, 1-2 credit(s), max credits 2, 1 completion allowed; prereq instr consent;

Instructor: Wells, Carol Lee

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

CLS 5103 Diagnostic Microbiology: Laboratory

A-F only, 2 credit(s); prereq One microbiology course with lab, one biochemistry course, instr consent ;

Instructor: Zitterkopf, Nicole Lee

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

CLS 5120 Seminar: Clinical Laboratory Science

S-N only, 1 credit(s), max credits 3, 3 completions allowed; prereq instr consent;

Instructor: Panoskaltis-Mortari PhD, Angela

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

CLS 5121 Journal Presentations

S-N only, 1 credit(s), max credits 2; prereq 1st yr CLS grad student;

Instructor: Panoskaltis-Mortari PhD, Angela

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

CLS 5201 Hematology I: Basic Techniques

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

Instructor: Swinehart, Cheryl D

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

CLS 5301 Urinalysis

A-F only, 1 credit(s); prereq instr consent ;

Instructor: Spannaus-Martin, Donna J

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

CLS 5302 Clinical Chemistry I: Lecture and Lab

A-F only, 3 credit(s); prereq Two organic chem courses with lab, one biochem course, instr consent ;

Instructor: Spannaus-Martin, Donna J

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

CLS 5402 Molecular Diagnostics

A-F only, 1 credit(s); prereq instr consent ;

Instructor: Wiesner, Stephen Michael

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

CLS 5768 Advanced Hematology

A-F only, 5-10 credit(s), max credits 30, 6 completions allowed; prereq instr consent ;

Instructor: Larsen, Karen B

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

CLS 8193 Advanced Topics in Clinical Chemistry

2 credit(s); prereq instr consent;

Instructor: Tsai, Michael Y

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

CLS 8194 Research on Clinical Laboratory Problems

1-3 credit(s), max credits 3, 1 completion allowed; prereq instr consent;

Instructor: Panoskaltis-Mortari PhD, Angela

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

Clinical Laboratory Sciences Program

15-170 Phillips Wangensteen Bldg (MMC 711)

CLSP 1010 Orientation in Clinical Laboratory Sciences

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

Instructor: Solberg, Patricia Lee

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

CLSP 4092 Honors Program: Laboratory Methods

3 credit(s); prereq instr consent;

Instructor: Wells,Carol Lee

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

CLSP 4102 Principles of Diagnostic Microbiology

A-F only, 2 credit(s); prereq One microbiology course with lab, one biochem course, enrolled CLS student, instr consent ;

Instructor: Zitterkopf,Nicole Lee

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

CLSP 4103 Diagnostic Microbiology: Laboratory

A-F only, 2 credit(s); prereq One microbiology course with lab, one biochem course, enrolled CLSP student, instr consent ;

Instructor: Zitterkopf,Nicole Lee

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

CLSP 4201 Hematology I

A-F only, 3 credit(s); prereq Enrolled CLSP, instr consent ;

Instructor: Swinehart,Cheryl D

Description: This course will include the theory and application of the basic principles and techniques in clinical hematology and hemostasis. There will be both lecture and laboratory sessions. Students who have been admitted to the professional program in medical technology are eligible for this course.

Style: 33% Lecture, 67% Laboratory.

Exam Format: Multiple choice

CLSP 4302 Clinical Chemistry I: Lecture and Lab

A-F only, 3 credit(s); prereq Two organic chem courses with lab, one biochem course, instr consent ;

Instructor: Spannaus-Martin,Donna J

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

CLSP 4401 Immunology

A-F only, 1 credit(s), max credits 2; prereq BIOC 3021, instr consent ;

Instructor: Wiesner,Stephen Michael

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

CLSP 4402 Molecular Diagnostics

A-F only, 2 credit(s), max credits 4;

Instructor: Wiesner,Stephen Michael

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

CLSP 4602 Basic Concepts in Education and Research as Applied to the Clinical Laboratory

A-F only, 1 credit(s); prereq instr consent ;

Instructor: Spannaus-Martin,Donna J

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

CLSP 4701 Applied Diagnostic Microbiology

S-N only, 2 credit(s); prereq 4102, 4101 enrolled CLSP student, instr consent ;

Instructor: Brennecke,Patricia Johnson

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

CLSP 4702 Applied Clinical Hematology/Hemostasis

S-N only, 2 credit(s); prereq 4201, 4202, 4203, enrolled CLSP student, instr consent ;

Instructor: Brennecke,Patricia Johnson

Description: Student may contact the instructor or department

for information.

CLSP 4702 Applied Clinical Hematology/Hemostasis

S-N only, 2 credit(s); prereq 4201, 4202, 4203, enrolled CLSP student, instr consent ;

Instructor: Swinehart,Cheryl D

Description: The rotation is designed to: Provide comprehensive training in the techniques of hematology--including blood drawing, morphology, instrumentation, and body fluids. Special techniques in hemostasis and special hematology stains and morphology will also be covered. Target audience: Medical technology students who have completed their senior courses. Rotations are scheduled at various hospital/clinical sites.

CLSP 4703 Applied Clinical Chemistry and Urinalysis

S-N only, 2 credit(s); prereq 4301, 4302, 4304, 4305, enrolled CLSP student, instr consent ;

Instructor: STAFF

Description: Application of basic methods and techniques in the clinical chemistry lab. Upon completion of the chemistry rotation, the student will be able to: Organize and take responsibility for the performance of selected methods. Perform the procedure with limited supervision, maintain accurate records, while following all prescribed laboratory safety procedures, recognize signs of instrument malfunction, perform necessary corrective measures, and clean up area. Obtain appropriate blood samples by venipuncture. Handle specimens properly once they are received in the laboratory. Understand the principles of clinical chemistry methods presented during the course. Describe the principles of instruments covered during the course. Understand the clinical usefulness of laboratory results. Perform routine urinalysis according to laboratory protocol. Target audience: medical technology students after they have completed their senior medical technology courses. Course is scheduled at various clinical/hospital sites.

Style: 100% Laboratory.

Grading: 5% in-class presentation, 95% laboratory evaluation.

CLSP 4704 Applied Transfusion Medicine

S-N only, 2 credit(s); prereq 4501, 4502, enrolled CLSP student, instr consent ;

Instructor: Brennecke,Patricia Johnson

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

CLSP 4705 Specialty Rotation

S-N only, 1 credit(s); prereq Enrollment in CLS program;

Instructor: Brennecke,Patricia Johnson

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

Cognitive Science

205 Elliott Hall

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: Student may contact the instructor or department for information.

Collaborative Arts Interdisciplinary Program

E211 Regis Center for Art

COLA 1001 Art of Collaboration

A-F only, 3 credit(s);

Instructor: Sommers, Michael J

Description: Characteristics/challenges of collaboration, through three representative approaches from the visual arts, music, and theater. Concrete problematic situations arising from a collaborative/multimedia-enhanced project.

COLA 1521 Collaboratory I: Collaborative Research Laboratory S-N only, 1 credit(s), max credits 2;

Instructor: Sommers, Michael J

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

COLA 3011 Move to Question: A Lab for Creative Practice 3 credit(s);

Instructor: STAFF

Description: MOVE TO QUESTION is a laboratory for creative research taught by three internationally-recognized choreographers/directors/writers/multidisciplinary artists (David Gordon, Ain Gordon, Eiko Otake). Students will identify, explore and critique various methods of conducting creative research and will gain new skills in historical, narrative and collaborative investigations. During the course, students will complete a portfolio of projects in multiple formats (written, performed, recorded, etc.) and will be evaluated on active participation and individual development.

COLA 3521 Collaboratory II: Collaborative Research Laboratory

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

Instructor: Sommers, Michael J

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

COLA 3950 Topics in Collaborative Arts

1-4 credit(s), max credits 32, 8 completions allowed; prereq instr consent ;

Instructor: STAFF

Description: The Body Acoustic aims to heighten awareness of the reciprocal relationship between the built environment and our senses. As with sound and light, distances, height, volume, surfaces, angles/curves and a symmetries all affect one's movement through space; one's movement, in disciplines of architecture, design, visual and movement-based art. The Body Acoustic provides an ideal opportunity for student from all of these disciplines to engage in inter-and trans-disciplinary research and practice. This course will allow students to study the physical sense of place in three major cultural institutions in Minneapolis: Walker Art Center, Guthrie Theater and Minneapolis Institute of Art.

COLA 4521 Collaboratory III: Collaborative Research Laboratory

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

Instructor: Sommers, Michael J

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

COLA 4950 Topics in Collaborative Arts: Audio Technology

1-4 credit(s), max credits 32, 8 completions allowed; prereq instr consent ;

Instructor: Gwinup, Martin Bruce

Description: This course will be an in depth approach to the area of Video Technology. By the end of the course the student should understand and be comfortable with common approaches to lighting, camera operation, audio, and production practices for video production. This course is based both in studio as well as field. We will also discuss the specifics of video protocols and formats. The creative discussions in the class will include aesthetics, continuity, and composition. The students understanding of the topics and techniques discussed in this course will culminate in their final project. This course has no pre-requisites and is open to any student on campus who has an interest in video or film production. It is also the gateway into the other video production courses within the department including TH4560 Preproduction for Film/Video, TH5550 Video Project, TH5551 Editing & Postproduction, TH4554 Graphics and

Animation for Film/Video, TH4557 Audio for Film/Video, TH5553 Video Production Design and Aesthetics, and TH5554 Multimedia Production for Live Performance. Realize we will meet on

Style: 50% Lecture, 20% Discussion, 30% Laboratory.

Grading: 15% mid exam, 15% final exam, 30% special projects, 10% quizzes, 10% written homework, 20% laboratory evaluation.

COLA 5950 Topics in Collaborative Arts: Super8 Guerilla Filmmaking

4 credit(s), max credits 32, 8 completions allowed; prereq instr consent ;

Instructor: Luktas, Lynn Tjerman

Description: Super-8 Guerilla Filmmaking, explores filmmaking as an artistic practice situated outside of commercial independent filmmaking and the Hollywood canon. This workshop takes a low-tech guerilla approach to film-arts practice offering students the opportunity for hands-on exploration of filmmaking using super-8 cameras and film. Often referred to as, Underground Film, such low-cost arts and media practices were adopted by marginal and disenfranchised individuals and social groups as a means of telling stories and creating images that reflected alternative and transgressive life styles, politics and aesthetics. Likewise, this workshop seeks to explore issues and topics that are often excluded from mainstream film, media and artistic venues. Together with producing super 8 films the class will explore the work of filmmakers and contemporary artists from the 1940's to the present that have included film in their creative practices. Included, among others, are Maya Deren, Jonas Mekas, John Baldessari, Kenneth Anger, Andy Warhol, Abel Ferrera, Les Blank, Chantal Akerman, Jane Campion, John Cassavettes, Bruce Connor, Jack Smith, Chris Marker, Melvyn Van Peebles, Larry Clark, Sadie Benning, Peggy Awesh and Harmony Korine. Undergraduate Workload: 6 short creative projects Graduate Workload: 6 short creative projects 1 extended research presentation on an individual film artist working in ?underground? filmmaking not included in the materials covered in the class.

COLA 5950 Topics in Collaborative Arts: CrossMedia RealTime Programming in Max/MSP/Jitter

3 credit(s), max credits 32, 8 completions allowed; prereq instr consent ;

Instructor: Momeni, Ali

Description: Title: Make Anything Talk to Anything: Cross-Media Real-Time Programming with Max/MSP/Jitter This course is intended for visual artists, musicians, designers, computer scientists, engineers and architects (among others) interested in exploring real-time interactive software applications. Such applications allow translations/interactions among various media; examples include sound to video (e.g. music visualizers), gesture to sound (e.g. the theramin, Wii controllers as musical instruments), gesture to video (e.g. motion tracking for interactive visualizations, interactive architecture), interactive sculptures (e.g. sensor controlled mechanics, robotics, lights, LEDs). The Max/MSP/Jitter new media programming environment will be the primary instrument of the course. Max/MSP/Jitter is a graphical programming environment that provides user interface, timing, communication with electronics, communications with the web, MIDI support, real-time audio and video synthesis and processing. The course will be a rigorous boot-camp for this instrument; after the initial introduction in the first third of the semester, the course will be project-based where each student will develop several independent projects/works/experiments. The course is offered as an upper-level undergraduate/lower-level graduate rank. In-class meeting hours will be similar to those of studio courses in the Art Department, i.e. two three-hour sessions per week. Like other studio courses, much of that time will be spent on supervised individual work. In addition to the 6 weekly in-class hours, students are expected to considerable time outside of class mastering this powerful instrument. Students are encouraged to collaborate with one-another; collaborations with the instructor are also possible. Familiarity and comfort with laptop-based technology is a pre-requirement; this includes experience any of a variety of desktop publishing tools (Photoshop, Illustrator, Flash,

Dreamweaver, GoLive, QuickTime, Final Cut) as well as a general sense of interest and curiosity in the creative potentials of the laptop and software platforms. Previous programming experience of any kind is welcomed but not required. Similarly, previous experience with Max/MSP/Jitter is not required but also welcomed.

College of Food, Agri & Natural Resource Sciences

CFAN 1901 Topics: Freshman Seminar: Eval Starvation:Revisiting Malthus in Biotech Era
A-F only, 3 credit(s), max credits 3, 1 completion allowed;
prereq freshman; Meets CLE req of Environment Theme;
Instructor: Porter,Paul M
Description: Student may contact the instructor or department for information.

CFAN 1901 Topics: Freshman Seminar: By the Harvest You Shall Live
A-F only, 3 credit(s), max credits 3, 1 completion allowed;
prereq freshman; Meets CLE req of Environment Theme;
Instructor: Cardwell,Vernon Bruce
Description: Student may contact the instructor or department for information.

CFAN 1902 Topics: Freshman Seminar: Ways of Knowing and Science
3 credit(s); prereq freshman; Meets CLE req of Cultural Diversity Theme;
Instructor: Lorenz,Karl W

Description: Every human society has developed its own knowledge of food and health relationships. But until very recently, scientific researchers at large Universities have paid little attention to this knowledge, in part because it has been dismissed as "unscientific". Most professional scientists do not accept indigenous, ancestral or ancient knowledge systems as valid. When such knowledge is considered, it is studied through the lens of "science" to determine its legitimacy. Diverse food practices and understandings may be acknowledged as cultural artifacts, but are seldom seen by scientists as legitimate on their own merit. In this seminar, we will attempt to take a more culturally competent "inside look" at diverse ways of knowing. Experience is often the best teacher. By direct experience and involvement with another culture, we come to recognize their cultural worldview and its way of seeing and making sense of the world. In this way, you will encounter different ways of knowing. We will focus specifically on different cultural orientations to understanding food and health relationships. We will explore Indigenous knowledges, Ayurveda, Chinese Medicine, western/biomedical and African American perspectives. Each of these "ways of knowing" is grounded in distinct and divergent ancestral and cultural orientations. We will experience and explore these systems through field trips and invited speakers. Accordingly, class time will be re-formed into field trips and on-site learning experiences. All students are expected to attend these field trips or to make other arrangements mutually agreeable with the faculty. Field trip learning experiences will form the basis for assignments. Over the semester, you will be asked to complete: two writing assignments where you will write on a health-related issue of your choice, but from within the perspective being studied; one report based on an individual "practicum" experience (clinic visit, concert, etc) in one of the orientations being explored; one group presentation of 15-20 minutes involving 3-4 students addressing an issue identified by a community as important. This issue will be identified within the first few weeks of class, and groups will work on research/preparation of the presentation so that they can present later in the semester.

CFAN 1905 Topics: Freshman Seminar: Antioxidants:How do they protect your food & body?
A-F only, 2 credit(s), max credits 3, 1 completion allowed;

prereq Fr;
Instructor: Csallany,A Saari
Description: Student may contact the instructor or department for information.

CFAN 3000 Directed Studies in International Agriculture
A-F only, 2-4 credit(s), max credits 8, 3 completions allowed;
prereq instr consent ;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

CFAN 3100H Honors Experience
A-F only, 2-3 credit(s), max credits 6; prereq instr consent ;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

CFAN 3201 Strategic Career Planning
A-F only, 1 credit(s); prereq Soph or jr or sr or grad student credit will not be granted if credit received for: 3201;
Instructor: 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 Strategic Career Planning
A-F only, 1 credit(s); prereq Soph or jr or sr or grad student credit will not be granted if credit received for: 3201;
Instructor: Newberg,Sara Nagel
Description: Want to get ahead of the competition when searching for jobs and internships? This 1 credit course is ideal for undergraduate and graduate students in any major seeking internships and/or full time work. This course covers topics that will prepare you for your job/internship search including skills assessment, resume writing, interviewing, job searching and salary negotiation.
Style: 65% Lecture, 10% Discussion. Class Activities
Grading: 25% reports/papers, 50% special projects, 10% class participation, 15% other evaluation. inventories & class activities

CFAN 3201 Strategic Career Planning
A-F only, 1 credit(s); prereq Soph or jr or sr or grad student credit will not be granted if credit received for: 3201;
Instructor: Hanson,Matthew R
Description: Student may contact the instructor or department for information.

CFAN 3201 Strategic Career Planning
A-F only, 1 credit(s); prereq Soph or jr or sr or grad student credit will not be granted if credit received for: 3201;
Instructor: LeFay,Lisa
Description: Student may contact the instructor or department for information.

CFAN 3500 International Field Studies Seminar
A-F only, 1-3 credit(s), max credits 6; prereq instr consent ;
Instructor: Vreyens,John Robert
Description: This agro-forestry course offers a balance between scientific background information and hands-on experiences. The environments explored range from high- to low-elevation forests and from conventional high-input farms to sustainable organic and bird-friendly coffee, cocoa and banana plantations. Students learn about payment for environmental services, certification of forest products, ecotourism, and other environmental programs using coffee systems and natural and managed forests as examples. Estimated costs \$2,800. Dr. Dean Current leads this group to Costa Rica. Dates of travel are:

January 6 to January 20, 2008.

CFAN 3900 Topics in International Agriculture

A-F only, 2-4 credit(s), max credits 25, 10 completions

allowed; prereq instr consent;

Instructor: Vreyens, John Robert

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

CFAN 3900 Topics in International Agriculture

A-F only, 2-4 credit(s), max credits 25, 10 completions

allowed; prereq instr consent;

Instructor: Vreyens, John Robert

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

CFAN 3900 Topics in International Agriculture

A-F only, 2-4 credit(s), max credits 25, 10 completions

allowed; prereq instr consent;

Instructor: Vreyens, John Robert

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

CFAN 3900 Topics in International Agriculture

A-F only, 2-4 credit(s), max credits 25, 10 completions

allowed; prereq instr consent;

Instructor: Vreyens, John Robert

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

CFAN 3900 Topics in International Agriculture

A-F only, 2-4 credit(s), max credits 25, 10 completions

allowed; prereq instr consent;

Instructor: Vreyens, John Robert

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

CFAN 3900 Topics in International Agriculture

A-F only, 2-4 credit(s), max credits 25, 10 completions

allowed; prereq instr consent;

Instructor: Vreyens, John Robert

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

CFAN 4009W Undergraduate Senior Thesis: Science in Agriculture

A-F only, 1-6 credit(s), max credits 12, 12 completions

allowed; prereq jr or sr major in ScAg, instr consent ; Meets

CLE req of Writing Intensive;

Instructor: STAFF

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

CFAN 5500 International Field Studies Seminar

A-F only, 1-3 credit(s), max credits 6; prereq instr consent ;

Instructor: Vreyens, John Robert

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

College of Liberal Arts

49 Johnston Hall

CLA 1001 Introduction to CLA Student Life

S-N only, 1 credit(s);

Instructor: STAFF

Description: CLA 1001 teaches strategies to aid first-year students in their transition to the College of Liberal Arts and the University of Minnesota. The course is designed to be a continuing orientation during the first semester at the U of M. CLA 1001 covers topics including study skills, the liberal arts, and four-year planning. The course also addresses student life issues such as finances and campus involvement while

introducing students to the University of Minnesota Portfolio. Each section of the course is taught by an academic adviser from CLA Student Services, bringing together both the classroom experience and advising. The sections are co-led by an undergraduate teaching assistant, who will assist students with their transition to college from a peer perspective.

Style: 40% Lecture, 40% Discussion.

Grading: Based on attendance, participation, and satisfactory completion of all work.

Exam Format: No exams

CLA 1005 Introduction to Liberal Arts Learning

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

Instructor: Williams, Andrew L

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

CLA 1301 SEAM First Year Seminar

A-F only, 2 credit(s); prereq SEAM;

Instructor: Kappler, Barbara Jean

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

CLA 1301 SEAM First Year Seminar

A-F only, 2 credit(s); prereq SEAM;

Instructor: Phibbs, Anne Elizabeth

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

CLA 1301 SEAM First Year Seminar

A-F only, 2 credit(s); prereq SEAM;

Instructor: Campbell, Colin R

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

CLA 1301 SEAM First Year Seminar

A-F only, 2 credit(s); prereq SEAM;

Instructor: Brewer, Rose Marie

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

CLA 1301 SEAM First Year Seminar

A-F only, 2 credit(s); prereq SEAM;

Instructor: Green, George David

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

CLA 1301 SEAM First Year Seminar

A-F only, 2 credit(s); prereq SEAM;

Instructor: Romero, Daniel Patrick

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

CLA 1301 SEAM First Year Seminar

A-F only, 2 credit(s); prereq SEAM;

Instructor: Garrick, Sean Clifford

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

CLA 1303 SEAM Seminar: Cross-Cultural Perspectives on Drugs

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

Instructor: McKenna PhD, Dennis Jon

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

Communication Studies

225 Ford Hall

COMM 1101 Introduction to Public Speaking

3 credit(s); Credit will not be granted if credit has been received for: WRIT 1223;

Instructor: STAFF

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

COMM 1101H Honors: Introduction to Public Speaking
3 credit(s); prereq honors; Credit will not be granted if credit has been received for: WRIT 1223;
Instructor: Behme, Timothy Donald
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: STAFF
Description: Student may contact the instructor or department for information.

COMM 1905 Freshman Seminar
A-F only, 3 credit(s), max credits 6;
Instructor: Gross, Alan G
Description: Schindler's List turns the Holocaust into Hollywood. But the Holocaust was nothing like that. Rather, it was a double tragedy: for the German people and the Jews of Europe. The first descended from the heights of culture to the despicable barbarism of which the second were the victims. In this seminar, in such films as Shoah, and memoirs like Survival in Auschwitz, you will hear these victims speak in their own voices. In such films as The Wannsee Conference and such books as Ordinary Men, you will hear their tormentors speak candidly about their experiences. These riveting accounts are not about unnamed millions, but about the temptations and tragedies of real people, victims and perpetrators who were as Nietzsche says, human, all too human.
Style: 25% Lecture, 25% Film/Video, 50% Discussion.
Grading: 100% reports/papers. There will be a one-page paper on each week's reading. That will be the basis for your final grade.

COMM 1910W Freshman Seminar
A-F only, 3 credit(s), max credits 6; Meets CLE req of Writing Intensive;
Instructor: Campbell, Karlyn Kohrs
Description: How have great presidents used their 'bully pulpit' to influence how Americans see and understand the world? What are the speeches that all agree are great? Why is that the case? Which of Lincoln's words shape our understanding of the Civil War; how do FDR's words shape our understanding of the depression and of World War II? How do John Kennedy's and Ronald Reagan's words shape our understanding of the Cold War? How did Eisenhower attempt to limit the dangers of nuclear weapons and warn of the increasing political power of the military-industrial complex? How did the words of Kennedy and Lyndon Johnson help bring about civil rights for African Americans? How do presidents lead us into war? Or comfort us in the face of catastrophe? Students will be expected to read presidential speeches and analyses of these speeches, respond to questions about them, and do an extended analysis of a major presidential speech.

COMM 1910W Freshman Seminar
A-F only, 3 credit(s), max credits 6; Meets CLE req of Writing Intensive;
Instructor: Schiappa, Edward
Description: The purpose of this seminar is to introduce students to the theory and practice of the critical analysis of popular culture. It presupposes that we ought to treat popular culture seriously because popular-culture texts, artifacts, and practices are important cultural expressions that have an impact on the way people make sense of themselves, others, and the world. In short, popular culture persuades or socializes us to think and behave in some ways rather than others, and as citizens and consumers it is to our benefit to understand how that persuasion occurs.

COMM 3110 Topics in Speech-Communication: Rhetoric of the 60s

3 credit(s), max credits 15, 5 completions allowed;

Instructor: Wilson, Kirt H

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

COMM 3110 Topics in Speech-Communication: Communication & Sex in Interpersonal Relationships
3 credit(s), max credits 15, 5 completions allowed;
Instructor: Koerner, Ascan Felix
Description: Communication and Sex in Interpersonal Relationships. This course investigates the roles that sex and communicating about sex play for interpersonal relationships. Approaching this topic from various perspectives, including biological, psychological, and sociological, we investigate sex and sexual behaviors affect interpersonal relationships and how communication affects sexual behaviors. After this class, students will have a better understanding of the impact sex has on relationships, as well as how communicating about sex can improve interpersonal relationships.

COMM 3110 Topics in Speech-Communication
3 credit(s), max credits 15, 5 completions allowed;
Instructor: Helwich, David A
Description: Student may contact the instructor or department for information.

COMM 3190H Honors Course: Research Seminar in Communication
A-F only, 3 credit(s), max credits 6; prereq Honors candidate in comm, instr consent, dept consent ;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

COMM 3201 Introduction to Electronic Media Production
A-F only, 4 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

COMM 3202 Audio Production and Media Literacy
3 credit(s); prereq 3201, able to meet outside of designated course window;
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); prereq 3201 or instr consent ;
Instructor: Gregg, Peter Benjamin
Description: This course is designed to provide students with experience in live-on-tape and single camera video production, including post production on video editing workstations, shooting and lighting on locations, and sound recording. The course emphasis is on field production. Students will work in groups on five major projects. Students will apply the aesthetic and critical knowledge they acquired in Comm 3201, and learning further techniques, technologies, and theories. This course requires extensive out-of-class work.
Style: 33% Lecture, 33% Discussion, 34% Laboratory.
Grading: 10% reports/papers, 60% special projects, 5% class participation, 25% laboratory evaluation.

COMM 3211 Introduction to U.S. Electronic Media
3 credit(s);
Instructor: Browne, Donald R
Description: We'll be covering several aspects of electronic media (commercial and non-commercial radio, TV, internet and other 'new' media, e.g. iPod) in the US: history, regulation, program decision-making, impact of media on their audiences, ethnic minorities and the media, and what the future holds (webTV, interactive TV, etc.) Even if most of you never will appear before a camera or a microphone (professionally, at least!), what we'll cover should give you a pretty fair idea of why we get what we get, and if you don't like some of it, what you can do about it. Old 3211 exams will be available through WebCT.

The course will be web-enhanced; URL will be announced on 1st class day

Style: 90% Lecture, 10% Discussion.

Grading: three non-cumulative exams, each of equal weight

Exam Format: combination of multiple choice and T-F questions

COMM 3231 Reality TV: History, Culture, and Economics

3 credit(s);

Instructor: Ouellette, Laurie Jean

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

COMM 3263 Media Literacy: Decoding Media Images and Messages

A-F only, 3 credit(s);

Instructor: Leppert, Alice J

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

COMM 3263 Media Literacy: Decoding Media Images and Messages

A-F only, 3 credit(s);

Instructor: Wessels, Emanuelle M

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

COMM 3263 Media Literacy: Decoding Media Images and Messages

A-F only, 3 credit(s);

Instructor: Johnson, Thomas C

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

COMM 3263 Media Literacy: Decoding Media Images and Messages

A-F only, 3 credit(s);

Instructor: Shaffer, Allyson K

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

COMM 3401 Introduction to Communication Theory

3 credit(s);

Instructor: Hewes, Dean E

Description: COMM 3401 is an introduction to the scientific study of communication. Topics covered include the goals and structure of social scientific theory and various approaches to communication theory including the behavioral, cognitive, evolutionary, cybernetic and socio-cultural. Examples of each approach are discussed drawn from interpersonal, mass, and intercultural communication. This is usually a large class necessitating lectures and discussion. Group projects, midterm and final exams form the basis of the final grades.

Style: 80% Lecture, 20% Discussion.

COMM 3401 Introduction to Communication Theory

3 credit(s);

Instructor: Fitzpatrick, Stacy L

Description: This fully online section is offered through Online and Distance learning, College of the Continuing Education. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. This course is designed to give you a foundation for understanding why theories are important in understanding communication, how those theories work, how they are structured, and why certain theories work better than others in specific contexts. The course starts with an in-depth look at the nature of social science theory and builds on this foundation over the semester, addressing specific theories of communication. This course will go beyond just helping you memorize various theories of communication; it will help you understand how communication theory relates to everyday life and helps people make sense of the events they encounter. When presented with a new theory, it's understandable to respond, "That's great in theory, but I don't see how it applies to me." This course will aim to show you the usefulness of communication theory in real life. At the conclusion of this course, you should be able to: ? explain the nature of communication theory and its relevance to

everyday life ? identify the elements of communication theory ? explain the links between the major communication theories ? critically evaluate, analyze, and apply the major communication theories ? describe the role that communication theory plays in everyday life ? explain the benefits and problems associated with applying a given communication theory Throughout the semester, please ask about anything you don't understand by posting a question in the Main discussion area. If you are puzzled about something, it's likely that one of your classmates has the same question and will be grateful to you for bringing it up. Since many of the ideas covered in this course are rather abstract, especially in the first four weeks, the material may be a bit difficult to understand at first. I have tried to provide concrete examples in the study notes to make the ideas we discuss as easy as possible to grasp. I also welcome your questions throughout the course, and will work with you to help clarify any material that you find difficult.

Style: 100% Web Based. Course Requirements:

--self-introduction: 2% --discussions (4): 16% --application exercises (2): 8% --quizzes (4): 48% --final project (with both group and individual portions): 26%

Grading: Course Requirements: --self-introduction: 2% --discussions (4): 16% --application exercises (2): 8% --quizzes (4): 48% --final project (with both group and individual portions): 26%

COMM 3402 Introduction to Interpersonal Communication

3 credit(s); Meets CLE req of Social Science Core;

Instructor: STAFF

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

COMM 3411 Introduction to Small Group Communication

3 credit(s);

Instructor: STAFF

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

COMM 3422 Interviewing and Communication

A-F only, 3 credit(s);

Instructor: STAFF

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

COMM 3431 Persuasion Theories

3 credit(s); prereq Soph recommended; Meets CLE req of Social Science Core;

Instructor: STAFF

Description: This course is designed to familiarize you with the complex and dynamic phenomenon of persuasion as a form of human communication. There are three basic objectives for the course: 1) To be able to understand the concept of persuasion from a theoretical perspective, and be familiar with the research findings on the persuasion process. 2) To demonstrate understanding of the process of persuasion in a variety of communication contexts, through oral and written exercises. 3) To be a critical consumer of persuasive messages.

Style: 80% Lecture, 20% Discussion.

Grading: 12% mid exam, 12% final exam, 25% reports/papers, 12% special projects, 25% quizzes, 12% class participation.

Exam Format: Mixture of multiple choice and short answer/definition questions

COMM 3441 Introduction to Organizational Communication

3 credit(s);

Instructor: Mc Arthur, Jerie Marie

Description: This course is designed to help students understand organizational communication. It combines lectures about theories for that understanding and an experiential learning component that allows students to apply those theories. The approach is as realistic as possible. The written work is designed to have students apply and critically evaluate the theories in the course. The course is generally made up of communication and business majors but is relevant for anyone planning to work in organizations.

Style: 66% Lecture. experiential learning

Grading: 20% mid exam, 20% final exam, 30% reports/papers, 30% other evaluation. experiential learning

Exam Format: essay

Instructor: Jones,Susanne Margarethe

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

COMM 3451W Intercultural Communication: Theory and Practice

3 credit(s); prereq Planning an intercultural experience; Meets CLE req of International Perspect Theme; meets CLE req of Writing Intensive;

Instructor: Albert,Rosita D

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

COMM 3452W Communication and the Intercultural Reentry

3 credit(s); prereq Return from an intercultural experience; Meets CLE req of Writing Intensive;

Instructor: STAFF

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

COMM 3601 Introduction to Rhetorical Theory

3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme;

Instructor: Greene,Ronald Walter

Description: This course introduces students to rhetorical theory by accounting for the different forms of political, cultural, and economic persuasion that permeate everyday life. To orient ourselves to these forms of persuasion, the class highlights the philosophical disagreements about the value of rhetoric to education, democracy, and morality. To explore the contemporary relevance of these philosophical disagreements to our experience of persuasion, the class will investigate Presidential speechmaking, advertising, movies, and video games.

Style: 70% Lecture, 10% Film/Video, 10% Discussion.

Grading: 4 tests each one builds on the other. Roughly 70% Participation assignments (quizzes, homework, in class participation) 30%.

Exam Format: Multiple choice; True-False

COMM 3605W Persuasive Speaking and Speech Writing

3 credit(s); prereq 1101, soph; Meets CLE req of Writing Intensive;

Instructor: Killian,Justin Lee

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

COMM 3615 Argumentation

3 credit(s); prereq Soph; Meets CLE req of Citizenship/Publ Ethics Theme;

Instructor: STAFF

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

COMM 3625 Communication Ethics

A-F only, 3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme;

Instructor: STAFF

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

COMM 3631 Freedom of Speech

3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme;

Instructor: STAFF

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

COMM 3980 Directed Instruction

S-N only, 3 credit(s), max credits 6; prereq instr consent , dept consent ;

Instructor: Dehler,Beatrice E

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

COMM 3990 Research Practicum

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

COMM 4221 Communication and Popular Music

3 credit(s); prereq 3211, sr, instr consent ;

Instructor: Rodman,Gilbert B.

Description: N.B.: The Fall 2009 version of this course will NOT have a Senior Paper option built into it. So if you're looking for a "Senior Paper" course, you should look elsewhere. Sorry. Popular music -- from hip-hop to hard rock, from country to techno -- is an important source of pleasure in many people's daily lives, but it's much more than just entertainment. Music is also a form of cultural expression deeply intertwined with a host of social, cultural, and political issues that can't simply be reduced to questions of taste or aesthetics. As such, our primary focus this semester will be on the cultural politics of popular music. In particular, we will focus on a range of critical and analytical concerns related to the production, distribution, consumption, circulation, and regulation of popular music. The syllabus from the last version of this course can be found using the link below, though the specific readings and assignments for the fall 2009 version of the course are likely to shift a bit.

COMM 4291 New Telecommunication Media

A-F only, 3 credit(s); prereq 3211 or instr consent;

Instructor: Nadler,Anthony M

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

COMM 4407 Communication and Conflict

A-F only, 3 credit(s); prereq 3401 or instr consent;

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, 25% Discussion.

Grading: 12% mid exam, 16% final exam, 50% reports/papers, 10% quizzes. 12% for 1st exam

Exam Format: Multiple choice

COMM 4471 Communication in Marriage and Family

3 credit(s); prereq 3401 or 3402 or instr consent ;

Instructor: Rose,Jeremy H

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

COMM 4602W Contemporary Political Persuasion

3 credit(s); prereq 1101, 3431 or instr consent; Meets CLE req of Writing Intensive;

Instructor: Campbell,Karlynn Kohrs

Description: Political Persuasion studies the influence exerted through political language, ideology, the calendar of politics (primary campaigns, nominations, conventions, electoral campaigns, stages in the presidency), relations between the three branches of government. This is a course in political language, the analysis of political speeches and events, and an effort to teach ways to evaluate different kinds of public discourse and the ways in which public discourse creates communities and political identities and influences public culture. The primary goal is to help students understand the broad rhetorical processes by which words, phrases, images, and actions acquire political meaning. These processes includes public addresses, advertisements, constant news cycles, public relations professionals, and other agents. Second, we shall pay particular attention to the rhetorical, argumentative, and institutional advantages afforded presidents, would-be presidents, and elected officials in these social processes. Their efforts, which remain influential rhetorical precedents, compose most of the course packet.

Grading: 20% mid exam, 20% final exam, 40% reports/papers, 10% reflection paper, 10% class participation. Attendance and class participation are linked

Exam Format: Essay

COMM 5211 Critical Media Studies: Theory and Methods

A-F only, 3 credit(s); prereq Grad student or instr consent ; Instructor: Rodman, Gilbert B.

Description: N.B. for undergraduates: This course is a graduate-level introduction to Critical Media Studies. There will be 200+ pages of reading each week, as well as 25-30 pages of formal writing. There will NOT be a Senior Paper option built into this course.

COMM 5402 Advanced Interpersonal Communication

3 credit(s); prereq 3401 or 3402;

Instructor: STAFF

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

COMM 5421 Quantitative Methods in Communication Research

A-F only, 3 credit(s); prereq 3401 or instr consent;

Instructor: Jones, Susanne Margarethe

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

COMM 5441 Communication in Human Organizations

3 credit(s); prereq 9 cr social science, 3441 or instr consent ;

Instructor: STAFF

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

COMM 5441 Communication in Human Organizations

3 credit(s); prereq 9 cr social science, 3441 or instr consent ;

Instructor: Jacobi, Laura Jean

Description: This fully online section is offered through Online and Distance learning, College of the Continuing Education. It may be taken for either undergraduate or graduate credit. (Graduate students are advised to register for A-F grading.) Visit "Class URL" for ODL policies, including fee and financial aid restrictions. This course helps students understand the distinct nature of human communication in organizations. Students will learn to recognize the key factors that influence individuals and apply theories of organizational communication. After identifying and using established methods to diagnose issues and problems related to communication, students will develop their own strategies for discovering and explaining organizational and individual interactions. Each week students will post answers to two discussion questions, and respond to another student's posting. At several points during the course students will be asked to pick a reference organization to use as a source of examples. This reference organization should be one of which they are (or have been) a member. It could be a work organization, community or voluntary association, or some other type of organization. In order to ensure that students are keeping up with the readings and understand them, they will need to participate in a brief multiple-choice exercise each week before submitting any other assignment.

Style: 100% Web Based.

Grading: --12 weekly online discussion submissions and responses (40% undergrad, 20% grad) --2 brief reviews (20% undergrad, 20% grad) --1 research project (40% undergrad, 40% grad) --1 profile of an organizational communications scholar (20% grad only)

COMM 5451W Intercultural Communication Processes

3 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Writing Intensive;

Instructor: Albert, Rosita D

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

COMM 5617 History and Criticism of U.S. Public Discourse: 1630-1865

3 credit(s); prereq Jr;

Instructor: Wilson, Kirt H

Description: This class perceives the past as a series of uncertain moments when interested parties used discourse to establish, maintain, or revive power. It asks two questions: How did early Americans use persuasion to manage the uncertainty of the New World experience, and how do we analyze the public discourse of previous eras? Focusing primarily on speeches, pamphlets, sermons, and public debates, it surveys U.S. public discourse from the seventeenth century to the Civil War. Our objectives are: to develop rhetorical interpretations of dominant social and political forces, to examine the patterns of persuasion that these forces spawned, to consider, from a rhetorical perspective, this nation's enduring themes, to practice and test the theoretical concepts prevalent in communication scholarship. Juniors, Seniors, and graduate students are welcome. You can write a senior project in this course.

Style: 80% Lecture, 20% Discussion.

Grading: 20% final exam, 60% reports/papers, 10% special projects, 10% class participation.

Exam Format: essay

COMM 8210 Seminar: Selected Topics in U.S. Electronic Media

3 credit(s), max credits 6; prereq 5210 or instr consent;

offered when feasible;

Instructor: Vavrus, Mary Douglas

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

COMM 8210 Seminar: Selected Topics in U.S. Electronic Media

3 credit(s), max credits 6; prereq 5210 or instr consent;

offered when feasible;

Instructor: Browne, Donald R

Description: We'll be studying the historical development of human communication from c. 50,000 BCE to the present, with added speculation on the future. We'll consider how various authors (Innis, Lacy, Mumford, Peters, Schramm among them) have approached the writing of comprehensive histories of human communication. The central issues we'll address concern ways in which innovations in communication (the 'invention' of writing, the printing press, the internet, etc.) influence society and each other, ways in which innovations are controlled and 'liberated,' why innovations succeed and fail, and whether the historical development of communication can/should be regarded as 'evolutionary.' While many of the innovations we'll examine have originated in 'the West,' we'll also consider others which originated in China, Latin America, the Middle East, etc. There will be several short critical/analytical papers and a major paper.

COMM 8611 Seminar: Rhetoric

3 credit(s), max credits 6; prereq 5611 or instr consent;

Instructor: Gross, Alan G

Description: This seminar investigates the origin and development of the concept of the public sphere. It begins with a study of John Dewey's seminal *The Public and its Problems*, the philosophical precursor of Habermas's central work, also the central work of the course, *The Structural Transformation of the Public Sphere*. It is a book that has generated a plethora of comment and criticism. Craig Calhoun's collection, *Habermas and the Public Sphere*, our next reading, samples this at its best. Up to this point in the seminar, we will have dealt with the public sphere only as a social and political phenomenon, subject to philosophical analysis. But any social and political phenomenon can also (and I would argue must also) be subjected to rhetorical analysis. This is the goal of political scientist Bryan Garsten's *Saving Persuasion: A Defense of Rhetoric and Judgment*. We close the seminar with a discussion of two topics: 1) the role of the public sphere in the theory of deliberative democracy, as embodied in Amy Gutmann and Dennis Thompson's *Why Deliberative Democracy?* and 2) the application of the concept of the public sphere in scholarship in Communication Studies and Journalism. The seminar should be of interest to students in Communication Studies, American Studies, Writing Studies, Cultural Studies and Comparative Literature, Journalism, Political Science, and Philosophy.

Style: The seminar is discussion-based.

Grading: 100% reports/papers. 50% of the grade will be based on weekly one-page papers; 50% will be based on a final paper.

Comparative Literature 235 Nicholson Hall

CL 5331 Discourse of the Novel

3 credit(s);

Instructor: Tageldin, Shaden M

Description: The novel, argued Mikhail Bakhtin, is "the only developing genre," the only one "as yet uncompleted." Georg Lukacs similarly characterized the novel as "something in process of becoming." If both Bakhtin and Lukacs provocatively imagined the novel as an open future, they less productively fixed its "real" birth in the eighteenth century and its birthplace in Europe. Embedded not just in novels, then, but in the very idea of the novel is a potent ideology of history, often Eurocentric. Gamal al-Ghitani, for one, would issue the novel a different birth certificate. The Egyptian novelist maintains that the Arabic novel is in fact 1,600 years old--as old as the recorded history of Arabic literature. Indeed, the novel might be less "novel" than we think, old as the history of human literature: it turns up in ancient Greece (as even Bakhtin is forced to acknowledge), in eleventh-century Japan, and in eighteenth-century China. This course will explore the novel both as genre and as idea: as a story of origins--a type of fiction that tells us how a person, place, or time comes into being and becomes--and an origin story of modernity and progress (not just literary but also social, economic, and technological). Taking a broadly comparative worldview of the genre, we will try to imagine a more novel history and definition of the novel. What makes a novel a "novel"? Why are so many cultures so eager to claim it? In what language do and "must" novels speak? What kinds of subjectivity do and "must" novels represent, and how? How does the novel relate the fictional to the real and to the historical? How is the rise of the novel linked to the rise of corporate capitalism, the nation-state, mass production, and mass literacy and reading publics--and must it always be predicated on these social facts? Is the novel as "democratic" a genre, linguistically and politically, as it is sometimes held to be? What is the novel's relationship to other genres (epic, lyric, other forms) and to other media (newspaper, photography, film)? Was Bakhtin right to say that the novel is a composite of all other literary genres--and kills off whatever it swallows? Are other genres really dead at the hands of the novel? Is the novel itself getting old? Will it ever die? Readings will be chosen from Heliodorus, Murasaki, The Arabian Nights, Defoe, Cao, Montesquieu, Balzac, Scott, Bronte, Dickens, Chatterjee, al-Muwaylihi, Anand, Ali, Camus, Yacine, Mahfouz, Aidoo, wa Thiong'o, Ramadan, and Rushdie, as well as a broad range of theoretical, critical, and literary-historical texts.

Style: 30% Lecture, 50% Discussion, 20% Student Presentation.

Grading: 60% reports/papers, 10% attendance, 20% in-class presentation, 10% class participation.

CL 5910 Topics in Comparative Literature: Work of Translation: Theory, Function, & Practice

3 credit(s), max credits 24, 8 completions allowed;

Instructor: Allen, Joseph R

Description: This course is a review of the issues surrounding translation, including theories of representation, ideological work, as well as actual practice. The course is structured around a series of readings and discussion of both historical and contemporary writing on translation; these readings and discussions. While most of the readings center on the theory and particulars of literary translation, students will be encouraged to explore other manifestations of translation as a historical, cultural or aesthetic issue. Along with those interested in languages and literature, students in disciplines such as creative writing, performance, and the plastic arts are also welcomed. You should be native or near-native speaker of English, as well as an advanced speaker/reader of at least one other language, either

classical or vernacular.

CL 8001 Basic Seminar in Comparative Literature I

3 credit(s); prereq CLit or Germanic Studies grad major;

Instructor: Mowitz, John W

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

CL 8910 Advanced Topics in Comparative Literature: Adorno

3 credit(s), max credits 24, 8 completions allowed;

Instructor: Leppert, Richard

Description: Theodor W. Adorno (1903-1969), one of the principal figures associated with the Frankfurt School and the "founding" of Critical Theory, wrote extensively on culture, society, the Enlightenment, Modernity, aesthetics, and the arts--music in particular (classical, popular, jazz, film music, etc.), but also extensively on literature. Together with his colleague Max Horkheimer, he formulated one of the first and most influential sustained critiques on the social transformations wrought by mass culture and modern communications media. Intellectually shaped by the history of German philosophy from Kant to Nietzsche, Adorno's work seeks to move philosophy from a confrontation with itself to an analysis of society and the cultural apparatus more generally. His writing is informed by Marx (on society in capitalism) and Freud (on the formation of the bourgeois subject). Very much a modernist bourgeois himself, nonetheless Adorno was among the most trenchant critics of twentieth-century modernist culture, set in the contexts of the rise of fascism and, later, the Cold War. Like his colleague, friend, and intellectual sparring partner Walter Benjamin, Adorno was deeply concerned with the apparatus of mass media as socio-culturally transformative (radio, film, television, the phonograph), Adorno reading the situation with a consummate skepticism (if not pessimism) that quite matched Benjamin's (putative) optimism. ENROLLMENT REQUIRES INSTRUCTOR'S PERMISSION.

Style: 50% Lecture, 25% Discussion, 25% Student Presentation.

CL 8910 Advanced Topics in Comparative Literature: Marxist Literary Theory & Postcolonial Question

3 credit(s), max credits 24, 8 completions allowed;

Instructor: Brennan, Timothy Andres

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

CL 8910 Advanced Topics in Comparative Literature: Spinoza and the 20th Century

3 credit(s), max credits 24, 8 completions allowed;

Instructor: Casarino, Cesare

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

Comparative Studies in Discourse and Society 235 Nicholson Hall

CSDS 5301 Society, Ideology, and the Production of Art

3 credit(s); Credit will not be granted if credit has been received for: CSCL 5301;

Instructor: Ganguly, Keya

Description: This is an upper-division course for advanced undergraduates and graduate students. Given the course's broad designation, we will attempt to sharpen our focus on the relationships between ideology, social norms, and aesthetic practice by taking a thematic approach to these relationships. The thematic with which we will concern ourselves is that of "visuality": its history, institutions, theories, and problems. Students will be expected to bring them a certain familiarity with cultural studies and social theory or to pick it up along the way (since an upper-division course cannot also serve as a primer on "theory" ;). Our collective project will be to examine, in a variety of primary and secondary source materials, the ways that visual

issues define aspects of modernity, give them historical and ideological inflection, as well as constrain modes of thinking and practice. The final two weeks of the quarter will address a particular site of representation where the question of visibility has been of political and historical importance, that of the colonial encounter.

Style: 75% Lecture, 25% Discussion.

Grading: 20% mid exam, 40% final exam, 30% reports/papers, 10% class participation.

Exam Format: short answer, essay

CSDS 8001 Basic Seminar: Comparative Studies in Discourse and Society I

3 credit(s); prereq CSDS or Germanic Studies grad major;

Instructor: Mowitz, John W

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

CSDS 8910 Advanced Topics in Comparative Studies in Discourse and Society: Adorno

3 credit(s), max credits 24, 8 completions allowed;

Instructor: Leppert, Richard

Description: Theodor W. Adorno (1903-1969), one of the principal figures associated with the Frankfurt School and the "founding" of Critical Theory, wrote extensively on culture, society, the Enlightenment, Modernity, aesthetics, and the arts--music in particular (classical, popular, jazz, film music, etc.), but also extensively on literature. Together with his colleague Max Horkheimer, he formulated one of the first and most influential sustained critiques on the social transformations wrought by mass culture and modern communications media. Intellectually shaped by the history of German philosophy from Kant to Nietzsche, Adorno's work seeks to move philosophy from a confrontation with itself to an analysis of society and the cultural apparatus more generally. His writing is informed by Marx (on society in capitalism) and Freud (on the formation of the bourgeois subject). Very much a modernist bourgeois himself, nonetheless Adorno was among the most trenchant critics of twentieth-century modernist culture, set in the contexts of the rise of fascism and, later, the Cold War. Like his colleague, friend, and intellectual sparring partner Walter Benjamin, Adorno was deeply concerned with the apparatus of mass media as socio-culturally transformative (radio, film, television, the phonograph), Adorno reading the situation with a consummate skepticism (if not pessimism) that quite matched Benjamin's (putative) optimism. ENROLLMENT REQUIRES INSTRUCTOR'S PERMISSION.

Style: 50% Lecture, 25% Discussion, 25% Student Presentation.

CSDS 8910 Advanced Topics in Comparative Studies in Discourse and Society: Marxist Literary Theory & Postcolonial Question

3 credit(s), max credits 24, 8 completions allowed;

Instructor: Brennan, Timothy Andres

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

CSDS 8910 Advanced Topics in Comparative Studies in Discourse and Society: Spinoza and the 20th Century

3 credit(s), max credits 24, 8 completions allowed;

Instructor: Casarino, Cesare

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

Comparative and Molecular Biosciences

CMB 5180 Ecology of Infectious Diseases

A-F only, 3 credit(s); prereq MVB or CMB or VMed grad student or instr consent ; Credit will not be granted if credit has been received for: PUBH 6180;

Instructor: Singer, Randall

Description: Student may contact the instructor or department

for information.

CMB 5200 Statistical Genetics and Genomics

A-F only, 4 credit(s); Credit will not be granted if credit has been received for: ANSC 5200;

Instructor: Da, Yang

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

CMB 5594 Directed Research in Comparative and Molecular Biosciences

1-4 credit(s), max credits 8, 8 completions allowed; prereq

Jr;

Instructor: STAFF

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

CMB 8100 Research Rotation in Comparative and Molecular Biosciences

A-F only, 4 credit(s), max credits 8; prereq 1st yr CMB grad student;

Instructor: Walcheck, Bruce Kenneth

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

CMB 8134 Ethical Conduct of Animal Research

A-F only, 3 credit(s); prereq [Grad or professional school] student or instr consent ; Credit will not be granted if credit has been received for: ANSC 8134;

Instructor: Molitor, Thomas William

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

CMB 8202 Mechanisms of Animal Health and Disease II

3 credit(s); prereq 8201;

Instructor: Sreevatsan, Srinand

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

CMB 8361 Neuro-Immune Interactions Inter

3 credit(s); prereq [MicB 5218 or equiv], [NSc 5561 or equiv]; Credit will not be granted if credit has been received for:

NSC 8026;

Instructor: Roy, Sabita

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

CMB 8371 Mucosal Immunobiology

A-F only, 3 credit(s); prereq MICA 8001 or equiv or instr consent; Credit will not be granted if credit has been

received for: MICA 8371;

Instructor: Herzberg, Mark C

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; prereq Grad CMB major;

Instructor: Walcheck, Bruce Kenneth

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

CMB 8481 Advanced Neuropharmaceutics

A-F only, 4 credit(s); prereq instr consent ; Credit will not be granted if credit has been received for: NSC 8481;

Instructor: Fairbanks, Carolyn Ann

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; prereq Biol sciences grad student;

Instructor: Vulchanova, Lucy

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

CMB 8560 Research and Literature Reports

S-N only, 1 credit(s), max credits 8, 8 completions allowed;
prereq Grad CMB major or instr consent ;

Instructor: Skinner,Pamela Jo

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

CMB 8560 Research and Literature Reports

S-N only, 1 credit(s), max credits 8, 8 completions allowed;
prereq Grad CMB major or instr consent ;

Instructor: Walcheck,Bruce Kenneth

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

CMB 8570 Comparative Biomedical Sciences Seminar

S-N only, 1 credit(s), max credits 8, 8 completions allowed;
prereq Biol sciences grad student;

Instructor: St Hill,Catherine

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

Computer Science

4-192 EE/CSci Building

CSCI 1103 Introduction to Computer Programming in Java

4 credit(s);

Instructor: Sturtivant,Carl

Description: Programming and problem solving fundamentals. Significant portions of Java programming language. Students design/write Java programs relating to various subjects. Substantial programming projects, integral weekly lab.

Style: 55% Lecture, 45% Laboratory.

Grading: 11% mid exam, 35% final exam, 26% laboratory evaluation, 28% problem solving.

Exam Format: Problem solving questions

CSCI 1113 Introduction to C/C++ Programming for Scientists and Engineers

4 credit(s); prereq Math 1271 or Math 1371;

Instructor: Swanson,Charles D

Description: This course will cover algorithm development and the principles of computer programming using C and C++.

Topics include introduction to computers and computing, program development, C/C++ programming language syntax, and elementary numerical methods for scientists and engineers. The prerequisite of one semester of calculus indicates the level of mathematical reasoning used in the class.

Style: 50% Lecture, 50% Laboratory.

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

Exam Format: Problems

CSCI 1113 Introduction to C/C++ Programming for Scientists and Engineers

4 credit(s); prereq Math 1271 or Math 1371;

Instructor: Sturtivant,Carl

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

CSCI 1901 Structure of Computer Programming I

4 credit(s); prereq Concurrent registration is required (or allowed) in MATH 1271 or equiv or instr consent ;

Instructor: Dovolis,Chris John

Description: CSci 1901 is the first required course for Computer Science majors. CSci 1901 is a prerequisite for CSci 1902 and many other CSci courses. Therefore, students planning to major in computer science and non-majors who plan to take other more advanced computer science courses should take CSci 1901 first. CSci 1901 is a challenging course that covers many fundamental programming and software design principles in a practical manner. The following topics are covered: data abstraction, data representations, procedural abstraction, recursion, iteration, lists, tables, intro to object oriented programming and intelligent data.

The Scheme programming language is used to implement programs using these concepts. The text for the course is Abelson and Sussman's "Structure and Interpretation of Computer Programs." CSci 1901 is very time consuming, and the pace is quick. Be sure to allot plenty of time for this course. There is a very large programming component to this course. Students may work in pairs on programming assignments.

Style: 70% Lecture, 30% Discussion.

Grading: 30% mid exam, 30% final exam, 40% other evaluation. Programming assignments

Exam Format: Programming

CSCI 1902 Structure of Computer Programming II

4 credit(s); prereq 1901 or instr consent;

Instructor: Myers,Chad Leighton

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

CSCI 2011 Discrete Structures of Computer Science

4 credit(s); prereq MATH 1271 or MATH 1371 or instr consent ;

Instructor: Kuang,Rui

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

CSCI 2021 Machine Architecture and Organization

4 credit(s); prereq 1902 or instr consent;

Instructor: Srivastava,Jaideep

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

CSCI 2031 Introduction to Numerical Computing

4 credit(s); prereq Math 2243 or instr consent; Credit will not be granted if credit has been received for: CSCI 5301;

Instructor: Interrante,Victoria

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

CSCI 3081W Program Design and Development

4 credit(s); prereq [1902, 2021] or instr consent; Meets CLE req of Writing Intensive;

Instructor: VanWyk,Eric

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

CSCI 3921W Social, Legal, and Ethical Issues in Computing

3 credit(s); prereq At least soph or instr consent ; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Writing Intensive;

Instructor: Swanson,Charles D

Description: Computing technology is having profound effects on society, providing many benefits but presenting many challenges as well. Important issues such as privacy, freedom of speech, intellectual property rights, social networking, and professional conduct will be considered from social, legal and ethical perspectives.

Style: 30% Lecture, 40% Discussion, 10% Small Group Activities, 10% Student Presentation, 10% Guest Speakers.

Grading: 20% mid exam, 50% reports/papers, 15% special projects, 5% written homework, 10% class participation.

CSCI 3970 Industrial Student Co-op Assignment

S-N only, 2 credit(s), max credits 4; prereq CSci, in co-op program, instr consent ;

Instructor: Swanson,Charles D

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

CSCI 4011 Formal Languages and Automata Theory

4 credit(s); prereq [1902, 2011] or instr consent ;

Instructor: Sturtivant,Carl

Description: Finite automata and regular expressions; Context-Free Grammars; Turing machines, computability, recursive versus recursively enumerable sets; Introduction to NP-completeness.

Style: 70% Lecture. recitation

Grading: 15% mid exam, 40% final exam, 45% problem solving.
Exam Format: problem solving

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

CSCI 4041 Algorithms and Data Structures

4 credit(s); prereq 1902 and 2011 or instr consent ; cannot be taken for grad CSci cr;
Instructor: Banerjee,Arindam
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory

3 credit(s), max credits 9, 3 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
Instructor: Karypis,George
Description: Student may contact the instructor or department for information.

CSCI 4061 Introduction to Operating Systems

4 credit(s); prereq 2021 or EE 2361; no cr for grads in CSci;
Instructor: STAFF
Description:

CSCI 4970W Advanced Project Laboratory

3 credit(s), max credits 9, 3 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
Instructor: Hopper,Nicholas J
Description: Student may contact the instructor or department for information.

CSCI 4203 Computer Architecture

4 credit(s); prereq 2021 or instr consent credit will not be granted if credit received for: 5201, EE 5361; Credit will not be granted if credit has been received for: EE 4363;
Instructor: Posbergh,Thomas Alfred
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory

3 credit(s), max credits 9, 3 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
Instructor: Yew,Pen-Chung
Description: Student may contact the instructor or department for information.

CSCI 4211 Introduction to Computer Networks

3 credit(s); prereq 4061 or instr consent ; basic knowledge of [computer architecture, operating systems] recommended, cannot be taken for grad CSci cr; Credit will not be granted if credit has been received for: CSCI 5211;
Instructor: 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; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
Instructor: Zhang,Zhi-Li
Description: Student may contact the instructor or department for information.

CSCI 4707 Practice of Database Systems

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

CSCI 4970W Advanced Project Laboratory

3 credit(s), max credits 9, 3 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
Instructor: Barry,Phillip
Description: Student may contact the instructor or department for information.

CSCI 4950 Senior Software Project

A-F only, 3 credit(s), max credits 6; prereq Upper div CSci, instr consent ;
Instructor: Riedl,John T
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory

3 credit(s), max credits 9, 3 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
Instructor: Konstan,Joseph Andrew
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory

3 credit(s), max credits 9, 3 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
Instructor: Swanson,Charles D
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory

3 credit(s), max credits 9, 3 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
Instructor: Boley,Daniel L
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory

3 credit(s), max credits 9, 3 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
Instructor: Carlis,John Vincent
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory

3 credit(s), max credits 9, 3 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
Instructor: Papanikolopoulos,Nikolaos P
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory

3 credit(s), max credits 9, 3 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
Instructor: Dovolis,Chris John
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory

3 credit(s), max credits 9, 3 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
Instructor: Riedl,John T
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory

3 credit(s), max credits 9, 3 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
Instructor: Collins,John

CSCI 4970W Advanced Project Laboratory

3 credit(s), max credits 9, 3 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
 Instructor: Janardan,Ravi
 Description: Student may contact the instructor or department for information.

grad cr; Meets CLE req of Writing Intensive;

Instructor: Gini,Maria L

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

CSCI 4970W Advanced Project Laboratory

3 credit(s), max credits 9, 3 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
 Instructor: Saad,Yousef
 Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory

3 credit(s), max credits 9, 3 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
 Instructor: 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; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
 Instructor: Sturtivant,Carl
 Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory

3 credit(s), max credits 9, 3 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
 Instructor: 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; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
 Instructor: Kumar,Vipin
 Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory

3 credit(s), max credits 9, 3 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
 Instructor: 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; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
 Instructor: Tripathi,Anand R
 Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory

3 credit(s), max credits 9, 3 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
 Instructor: 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; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
 Instructor: Shragowitz,Eugene
 Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory

3 credit(s), max credits 9, 3 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
 Instructor: 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; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
 Instructor: Du,David Hung-Chang
 Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory

3 credit(s), max credits 9, 3 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
 Instructor: Hsu,Wei Chung
 Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory

3 credit(s), max credits 9, 3 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
 Instructor: Heimdahl,Mats
 Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory

3 credit(s), max credits 9, 3 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
 Instructor: 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; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
 Instructor: Shekhar,Shashi
 Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory

3 credit(s), max credits 9, 3 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
 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; prereq Upper div CSci, 4061, instr consent ; cannot be taken for

CSCI 4970W Advanced Project Laboratory

3 credit(s), max credits 9, 3 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
 Instructor: 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; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
Instructor: VanWyk, Eric
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory

3 credit(s), max credits 9, 3 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
Instructor: Terveen, Loren Gilbert
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory

3 credit(s), max credits 9, 3 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
Instructor: Roumeliotis, Stergios
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory

3 credit(s), max credits 9, 3 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
Instructor: Kim, Yongdae
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory

3 credit(s), max credits 9, 3 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
Instructor: Schuler, William Edward
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory

3 credit(s), max credits 9, 3 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; 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; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
Instructor: Zhai, Antonia Bingheng
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory

3 credit(s), max credits 9, 3 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
Instructor: Mokbel, Mohamed F
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory

3 credit(s), max credits 9, 3 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
Instructor: Banerjee, Arindam
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory

3 credit(s), max credits 9, 3 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
Instructor: Myers, Chad Leighton
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory

3 credit(s), max credits 9, 3 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
Instructor: Keefe, Daniel F
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory

3 credit(s), max credits 9, 3 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
Instructor: Isler, Ibrahim Volkan
Description: Student may contact the instructor or department for information.

CSCI 5103 Operating Systems

3 credit(s); prereq 4061 or instr consent ;
Instructor: Weissman, Jon B
Description: Student may contact the instructor or department for information.

CSCI 5104 System Modeling and Performance Evaluation

3 credit(s); prereq 5103 or instr consent ;
Instructor: Tripathi, Anand R
Description: Student may contact the instructor or department for information.

CSCI 5106 Programming Languages

3 credit(s); prereq 4011 or instr consent ;
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 5107 Fundamentals of Computer Graphics 1

3 credit(s); prereq [4041 or instr consent], fluency in C/C++, mastery of basic concepts in linear algebra; Credit will not be granted if credit has been received for: CSCI 4107;
Instructor: Keefe, Daniel F
Description: Student may contact the instructor or department for information.

CSCI 5115 User Interface Design, Implementation and Evaluation

3 credit(s); prereq 4041 or instr consent;
Instructor: Konstan, Joseph Andrew
Description: This is a project-focused course that covers the basics of user interface design, evaluation, and implementation. Students work in groups of 4 or 5 on a semester-long project that includes analysis of the problem domain, user skills, and tasks; iterative prototyping of interfaces to solve the user's needs; several types of interface evaluation including user testing and walkthroughs; and implementation of the final prototype. A

limited number of students from non-technical disciplines (e.g., psychology, graphic arts and design, education and communications disciplines, etc.) are able to enroll in the course as non-programmers who participate in all aspects of the projects except implementation.

Style: 40% Lecture, 30% Discussion. in-class exercises and practice of techniques

Grading: 25% mid exam, 60% special projects, 15% other evaluation. Note: all are approximate figures

Exam Format: combined short and medium-length questions

CSCI 5211 Data Communications and Computer Networks
3 credit(s); prereq [4061 or instr consent], basic knowledge of [computer architecture, operating systems, probability], grad student; Credit will not be granted if credit has been received for: CSCI 4211;

Instructor: Zhang,Zhi-Li

Description: This course provides an introduction to fundamental concepts in the design and implementation of computer communication networks, their protocols, and applications. Topics to be covered include: layered network architectures, applications, network programming interfaces (e.g., sockets), transport, and data link protocols, local area networks and network routing. Examples will be drawn primarily from the Internet (e.g., TCP, UDP, and IP) protocol suite. This course is an entry-level graduate course. Undergraduate students will only be admitted with instructor's permission.

Exam Format: essay, questions and answers, problem solving

CSCI 5271 Introduction to Computer Security
3 credit(s); prereq 4061 or equiv or instr consent ;

Instructor: Hopper,Nicholas J

Description: This course will introduce students to many of the basic concepts of computer, network and information security. Topics covered will include risk analysis, authentication, access control, security evaluation, audit trails, cryptography, network security, database security, application security, viruses and firewalls. The target audience is first-year graduate students and senior undergraduates in computer science and engineering.

Style: 90% Lecture, 10% Discussion.

Grading: 25% mid exam, 25% final exam, 25% special projects, 25% problem solving.

CSCI 5304 Computational Aspects of Matrix Theory
3 credit(s); prereq 2031 or instr consent ;

Instructor: Boley,Daniel L

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

CSCI 5421 Advanced Algorithms and Data Structures
3 credit(s); prereq 4041 or instr consent;

Instructor: Janardan,Ravi

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

CSCI 5511 Artificial Intelligence I
3 credit(s); prereq [2011 or instr consent], grad student;

Instructor: Papanikolopoulos,Nikolaos P

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

CSCI 5521 Pattern Recognition
3 credit(s); prereq [2031, Stat 3021] or instr consent;

Instructor: Schrater,Paul Robert

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

CSCI 5523 Introduction to Data Mining
3 credit(s); prereq 4041 or equiv or instr consent ;

Instructor: Steinbach,Michael Scott

Description: This course will give a rapid and vigorous introduction to the field of data mining, as well as provide extensive hands-on experience via small data mining projects. Topics include the following: data pre-processing techniques, data types, similarity measures, data visualization/exploration; predictive models (e.g., decision trees, SVM, Bayes, K-nearest

neighbors, bagging, boosting) and model evaluation techniques; clustering (hierarchical, partitional, density-based), association analysis; anomaly detection; case studies from areas such as earth science, the Web, network intrusion, and genomics.

CSCI 5551 Introduction to Intelligent Robotic Systems
3 credit(s); prereq 2031 or instr consent ;

Instructor: Isler,Ibrahim Volkan

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

CSCI 5707 Principles of Database Systems

3 credit(s); prereq [4041 or instr consent], grad student; Credit will not be granted if credit has been received for:

CSCI 4707;

Instructor: Srivastava,Jaideep

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

CSCI 5801 Software Engineering I

3 credit(s); prereq [1902, 2011] or instr consent ;

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; prereq instr consent ; may be repeated for cr;

Instructor: Swanson,Charles D

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

CSCI 5991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;

Instructor: Carlis,John Vincent

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

CSCI 5991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;

Instructor: Dovolis,Chris John

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

CSCI 5991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;

Instructor: Collins,John

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

CSCI 5991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;

Instructor: Karypis,George

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

CSCI 5991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;

Instructor: Hopper,Nicholas J

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

CSCI 5991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;

Instructor: Yew,Pen-Chung

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

CSCI 5991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Zhang,Zhi-Li
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: 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; prereq instr consent ; may be repeated for cr;
Instructor: Konstan,Joseph Andrew
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Boley,Daniel L
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Papanikolopoulos,Nikolaos P
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Riedl,John T
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Janardan,Ravi
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Saad,Yousef
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Sturtivant,Carl
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Kumar,Vipin
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Tripathi,Anand R
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Shragowitz,Eugene
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Du,David Hung-Chang
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Heimdahl,Mats
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Shekhar,Shashi
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Gini,Maria L
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Schrater,Paul Robert
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Srivastava,Jaideep
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Interrante,Victoria
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Kuang,Rui
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Weissman,Jon B
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Hsu,Wei Chung
Description: Student may contact the instructor or department for information.

for information.

CSCI 5991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: He,Tian
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Nadathur,Gopalan
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: 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; prereq instr consent ; may be repeated for cr;
Instructor: VanWyk,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; prereq instr consent ; may be repeated for cr;
Instructor: Terveen,Loren Gilbert
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Roumeliotis,Stergios
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Kim,Yongdae
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Schuler,William Edward
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Chandra,Abhishek
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Zhai,Antonia Bingheng
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;

Instructor: Mokbel,Mohamed F

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

CSCI 5991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Banerjee,Arindam
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Myers,Chad Leighton
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Keefe,Daniel F
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Isler,Ibrahim Volkan
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Swanson,Charles D
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Carlis,John Vincent
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Dovolis,Chris John
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Collins,John
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Karypis,George
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Hopper,Nicholas J
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Yew, Pen-Chung
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Zhang, Zhi-Li
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Barry, Phillip
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Konstan, Joseph Andrew
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Boley, Daniel L
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Papanikolopoulos, Nikolaos P
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Riedl, John T
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Janardan, Ravi
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Saad, Yousef
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Sturtivant, Carl
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Kumar, Vipin
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Tripathi, Anand R
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Shragowitz, Eugene
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Du, David Hung-Chang
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Heimdahl, Mats
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Shekhar, Shashi
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Gini, Maria L
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Schrater, Paul Robert
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Srivastava, Jaideep
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Interrante, Victoria
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Kuang, Rui
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Weissman, Jon B
Description: Student may contact the instructor or department for information.

for information.

CSCI 5994 Directed Research

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Hsu,Wei Chung
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: He,Tian
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Nadathur,Gopalan
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Meyer,Gary W
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: VanWyk,Eric
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Terveen,Loren Gilbert
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Roumeliotis,Stergios
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Kim,Yongdae
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Schuler,William Edward
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Chandra,Abhishek
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;

Instructor: Zhai, Antonia Bingheng

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

CSCI 5994 Directed Research

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Mokbel,Mohamed F
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Banerjee,Arindam
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Myers,Chad Leighton
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Keefe,Daniel F
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Isler,Ibrahim Volkan
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training

S-N only, 1 credit(s), max credits 3, 3 completions allowed; prereq [CSci or CompE] major, instr consent ;
Instructor: Swanson,Charles D
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training

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

CSCI 5996 Curricular Practical Training

- S-N only, 1 credit(s), max credits 3, 3 completions allowed;**
prereq [CSci or CompE] major, instr consent ;
Instructor: Hopper,Nicholas J
Description: Student may contact the instructor or department for information.
- CSCI 5996 Curricular Practical Training**
S-N only, 1 credit(s), max credits 3, 3 completions allowed;
prereq [CSci or CompE] major, instr consent ;
Instructor: Yew,Pen-Chung
Description: Student may contact the instructor or department for information.
- CSCI 5996 Curricular Practical Training**
S-N only, 1 credit(s), max credits 3, 3 completions allowed;
prereq [CSci or CompE] major, instr consent ;
Instructor: Zhang,Zhi-Li
Description: Student may contact the instructor or department for information.
- CSCI 5996 Curricular Practical Training**
S-N only, 1 credit(s), max credits 3, 3 completions allowed;
prereq [CSci or CompE] major, instr consent ;
Instructor: Barry,Phillip
Description: Student may contact the instructor or department for information.
- CSCI 5996 Curricular Practical Training**
S-N only, 1 credit(s), max credits 3, 3 completions allowed;
prereq [CSci or CompE] major, instr consent ;
Instructor: Konstan,Joseph Andrew
Description: Student may contact the instructor or department for information.
- CSCI 5996 Curricular Practical Training**
S-N only, 1 credit(s), max credits 3, 3 completions allowed;
prereq [CSci or CompE] major, instr consent ;
Instructor: Boley,Daniel L
Description: Student may contact the instructor or department for information.
- CSCI 5996 Curricular Practical Training**
S-N only, 1 credit(s), max credits 3, 3 completions allowed;
prereq [CSci or CompE] major, instr consent ;
Instructor: Papanikolopoulos,Nikolaos P
Description: Student may contact the instructor or department for information.
- CSCI 5996 Curricular Practical Training**
S-N only, 1 credit(s), max credits 3, 3 completions allowed;
prereq [CSci or CompE] major, instr consent ;
Instructor: Riedl,John T
Description: Student may contact the instructor or department for information.
- CSCI 5996 Curricular Practical Training**
S-N only, 1 credit(s), max credits 3, 3 completions allowed;
prereq [CSci or CompE] major, instr consent ;
Instructor: Janardan,Ravi
Description: Student may contact the instructor or department for information.
- CSCI 5996 Curricular Practical Training**
S-N only, 1 credit(s), max credits 3, 3 completions allowed;
prereq [CSci or CompE] major, instr consent ;
Instructor: Saad,Yousef
Description: Student may contact the instructor or department for information.
- CSCI 5996 Curricular Practical Training**
S-N only, 1 credit(s), max credits 3, 3 completions allowed;
prereq [CSci or CompE] major, instr consent ;
Instructor: Sturtivant,Carl
Description: Student may contact the instructor or department for information.
- CSCI 5996 Curricular Practical Training**
S-N only, 1 credit(s), max credits 3, 3 completions allowed;
prereq [CSci or CompE] major, instr consent ;
Instructor: Kumar,Vipin
Description: Student may contact the instructor or department for information.
- CSCI 5996 Curricular Practical Training**
S-N only, 1 credit(s), max credits 3, 3 completions allowed;
prereq [CSci or CompE] major, instr consent ;
Instructor: Tripathi,Anand R
Description: Student may contact the instructor or department for information.
- CSCI 5996 Curricular Practical Training**
S-N only, 1 credit(s), max credits 3, 3 completions allowed;
prereq [CSci or CompE] major, instr consent ;
Instructor: Shragowitz,Eugene
Description: Student may contact the instructor or department for information.
- CSCI 5996 Curricular Practical Training**
S-N only, 1 credit(s), max credits 3, 3 completions allowed;
prereq [CSci or CompE] major, instr consent ;
Instructor: Du,David Hung-Chang
Description: Student may contact the instructor or department for information.
- CSCI 5996 Curricular Practical Training**
S-N only, 1 credit(s), max credits 3, 3 completions allowed;
prereq [CSci or CompE] major, instr consent ;
Instructor: Heimdahl,Mats
Description: Student may contact the instructor or department for information.
- CSCI 5996 Curricular Practical Training**
S-N only, 1 credit(s), max credits 3, 3 completions allowed;
prereq [CSci or CompE] major, instr consent ;
Instructor: Shekhar,Shashi
Description: Student may contact the instructor or department for information.
- CSCI 5996 Curricular Practical Training**
S-N only, 1 credit(s), max credits 3, 3 completions allowed;
prereq [CSci or CompE] major, instr consent ;
Instructor: Gini,Maria L
Description: Student may contact the instructor or department for information.
- CSCI 5996 Curricular Practical Training**
S-N only, 1 credit(s), max credits 3, 3 completions allowed;
prereq [CSci or CompE] major, instr consent ;
Instructor: Schrater,Paul Robert
Description: Student may contact the instructor or department for information.
- CSCI 5996 Curricular Practical Training**
S-N only, 1 credit(s), max credits 3, 3 completions allowed;
prereq [CSci or CompE] major, instr consent ;
Instructor: Srivastava,Jaideep
Description: Student may contact the instructor or department for information.
- CSCI 5996 Curricular Practical Training**
S-N only, 1 credit(s), max credits 3, 3 completions allowed;
prereq [CSci or CompE] major, instr consent ;
Instructor: Interrante,Victoria
Description: Student may contact the instructor or department for information.
- CSCI 5996 Curricular Practical Training**
S-N only, 1 credit(s), max credits 3, 3 completions allowed;
prereq [CSci or CompE] major, instr consent ;
Instructor: Kuang,Rui
Description: Student may contact the instructor or department for information.

for information.

CSCI 5996 Curricular Practical Training

S-N only, 1 credit(s), max credits 3, 3 completions allowed;
prereq [CSci or CompE] major, instr consent ;
Instructor: Weissman,Jon B
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training

S-N only, 1 credit(s), max credits 3, 3 completions allowed;
prereq [CSci or CompE] major, instr consent ;
Instructor: Hsu,Wei Chung
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training

S-N only, 1 credit(s), max credits 3, 3 completions allowed;
prereq [CSci or CompE] major, instr consent ;
Instructor: He,Tian
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training

S-N only, 1 credit(s), max credits 3, 3 completions allowed;
prereq [CSci or CompE] major, instr consent ;
Instructor: Nadathur,Gopalan
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training

S-N only, 1 credit(s), max credits 3, 3 completions allowed;
prereq [CSci or CompE] major, instr consent ;
Instructor: Meyer,Gary W
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training

S-N only, 1 credit(s), max credits 3, 3 completions allowed;
prereq [CSci or CompE] major, instr consent ;
Instructor: VanWyk,Eric
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training

S-N only, 1 credit(s), max credits 3, 3 completions allowed;
prereq [CSci or CompE] major, instr consent ;
Instructor: Terveen,Loren Gilbert
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training

S-N only, 1 credit(s), max credits 3, 3 completions allowed;
prereq [CSci or CompE] major, instr consent ;
Instructor: Roumeliotis,Stergios
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training

S-N only, 1 credit(s), max credits 3, 3 completions allowed;
prereq [CSci or CompE] major, instr consent ;
Instructor: Kim,Yongdae
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training

S-N only, 1 credit(s), max credits 3, 3 completions allowed;
prereq [CSci or CompE] major, instr consent ;
Instructor: Schuler,William Edward
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training

S-N only, 1 credit(s), max credits 3, 3 completions allowed;
prereq [CSci or CompE] major, instr consent ;

Instructor: Chandra,Abhishek

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

CSCI 5996 Curricular Practical Training

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

CSCI 5996 Curricular Practical Training

S-N only, 1 credit(s), max credits 3, 3 completions allowed;
prereq [CSci or CompE] major, instr consent ;
Instructor: Mokbel,Mohamed F
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training

S-N only, 1 credit(s), max credits 3, 3 completions allowed;
prereq [CSci or CompE] major, instr consent ;
Instructor: Banerjee,Arindam
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training

S-N only, 1 credit(s), max credits 3, 3 completions allowed;
prereq [CSci or CompE] major, instr consent ;
Instructor: Myers,Chad Leighton
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training

S-N only, 1 credit(s), max credits 3, 3 completions allowed;
prereq [CSci or CompE] major, instr consent ;
Instructor: Keefe,Daniel F
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training

S-N only, 1 credit(s), max credits 3, 3 completions allowed;
prereq [CSci or CompE] major, instr consent ;
Instructor: Isler,Ibrahim Volkan
Description: Student may contact the instructor or department for information.

CSCI 8001 Introduction to Research in Computer Science I

A-F only, 1 credit(s); prereq 1st yr CS PhD student;
Instructor: Carlis,John Vincent
Description: Student may contact the instructor or department for information.

CSCI 8271 Security and Privacy in Computing

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

CSCI 8283 Research Problems in Computer-Aided Design for Electronic Design

3 credit(s); prereq 5201 or 5283 or equiv or instr consent;
Instructor: Shragowitz,Eugene
Description: Abstract. This course is designed to give participants a view on new developments in nanotechnology for computing devices and systems. The long lasting line of switching devices based on CMOS FET technology is facing a barrier of basic laws of quantum mechanics. Industry and academia is working now on new technologies, new paradigms, new architectures and new circuits solutions for new generations of computing systems. The main directions of these new developments are presented by this course. List of subjects: - Review of the current state of microelectronics and industry plans for future presented in ITRS documents. - Review of the basic laws of quantum mechanics involved in derivation of

bounds on scaling of switching devices. - Emerging new technologies able to overcome limitations of observed for traditional technologies. - Detailed review of new technologies for digital switching applications as they are presented in ITRS. Their evaluations and comparisons. -Detailed review of new technologies for memory applications and their analysis and comparisons. - Detailed review on new technologies for interconnects. - New paradigms in system design: Systems-on-Chip (SoC), Network-on-Chip (NoC), Virtual Components (VC), Design Platforms. -New design procedures for new generation of nanotechnology. Evolution of CAD systems.

Style: 60% Lecture, 20% Discussion, 20% Student Presentation. Topics in the list will be lectured first and then discussed in the class based on information given in lectures and papers given for reading.

Grading: 30% special projects, 20% quizzes, 20% written homework, 10% attendance, 10% in-class presentation, 10% class participation. Written homework is interpreted as written review of papers given for reading Quizzes will be given in a format of question-answer discussion sessions following subject presented in lectures.

CSCI 8314 Sparse Matrix Computations

3 credit(s); prereq 5304 or numerical linear algebra course or instr consent ;

Instructor: Saad,Yousef

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

CSCI 8551 Intelligent Agents

3 credit(s); prereq 5511 or instr consent ;

Instructor: Gini,Maria L

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

CSCI 8735 Advanced Database Systems

A-F only, 3 credit(s); prereq 4707 or 5707 or 5708;

Instructor: Mokbel,Mohamed F

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

CSCI 8760 Plan B Project

S-N only, 3 credit(s); prereq CSci MS student, instr consent;

Instructor: Swanson,Charles D

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

CSCI 8760 Plan B Project

S-N only, 3 credit(s); prereq CSci MS student, instr consent;

Instructor: Carlis,John Vincent

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

CSCI 8760 Plan B Project

S-N only, 3 credit(s); prereq CSci MS student, instr consent;

Instructor: Dovolis,Chris John

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

CSCI 8760 Plan B Project

S-N only, 3 credit(s); prereq CSci MS student, instr consent;

Instructor: Collins,John

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

CSCI 8760 Plan B Project

S-N only, 3 credit(s); prereq CSci MS student, instr consent;

Instructor: Karypis,George

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

CSCI 8760 Plan B Project

S-N only, 3 credit(s); prereq CSci MS student, instr consent;

Instructor: Hopper,Nicholas J

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

CSCI 8760 Plan B Project

S-N only, 3 credit(s); prereq CSci MS student, instr consent;

Instructor: Yew,Pen-Chung

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

CSCI 8760 Plan B Project

S-N only, 3 credit(s); prereq CSci MS student, instr consent;

Instructor: Zhang,Zhi-Li

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

CSCI 8760 Plan B Project

S-N only, 3 credit(s); prereq CSci MS student, instr consent;

Instructor: Barry,Phillip

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

CSCI 8760 Plan B Project

S-N only, 3 credit(s); prereq CSci MS student, instr consent;

Instructor: Konstan,Joseph Andrew

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

CSCI 8760 Plan B Project

S-N only, 3 credit(s); prereq CSci MS student, instr consent;

Instructor: Boley,Daniel L

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

CSCI 8760 Plan B Project

S-N only, 3 credit(s); prereq CSci MS student, instr consent;

Instructor: Papanikolopoulos,Nikolaos P

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

CSCI 8760 Plan B Project

S-N only, 3 credit(s); prereq CSci MS student, instr consent;

Instructor: Riedl,John T

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

CSCI 8760 Plan B Project

S-N only, 3 credit(s); prereq CSci MS student, instr consent;

Instructor: Janardan,Ravi

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

CSCI 8760 Plan B Project

S-N only, 3 credit(s); prereq CSci MS student, instr consent;

Instructor: Saad,Yousef

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

CSCI 8760 Plan B Project

S-N only, 3 credit(s); prereq CSci MS student, instr consent;

Instructor: Sturtivant,Carl

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

CSCI 8760 Plan B Project

S-N only, 3 credit(s); prereq CSci MS student, instr consent;

Instructor: Kumar,Vipin

Description: Student may contact the instructor or department for information.

CSCI 8760 Plan B Project

S-N only, 3 credit(s); prereq CSci MS student, instr consent;

Instructor: Tripathi,Anand R

Description: Student may contact the instructor or department for information.

CSCI 8760 Plan B Project**S-N only, 3 credit(s); prereq CSci MS student, instr consent;****Instructor:** Shragowitz,Eugene**Description:** Student may contact the instructor or department for information.**Description:** Student may contact the instructor or department for information.**CSCI 8760 Plan B Project****S-N only, 3 credit(s); prereq CSci MS student, instr consent;****Instructor:** Du,David Hung-Chang**Description:** Student may contact the instructor or department for information.**CSCI 8760 Plan B Project****S-N only, 3 credit(s); prereq CSci MS student, instr consent;****Instructor:** Meyer,Gary W**Description:** Student may contact the instructor or department for information.**CSCI 8760 Plan B Project****S-N only, 3 credit(s); prereq CSci MS student, instr consent;****Instructor:** Heimdahl,Mats**Description:** Student may contact the instructor or department for information.**CSCI 8760 Plan B Project****S-N only, 3 credit(s); prereq CSci MS student, instr consent;****Instructor:** VanWyk,Eric**Description:** Student may contact the instructor or department for information.**CSCI 8760 Plan B Project****S-N only, 3 credit(s); prereq CSci MS student, instr consent;****Instructor:** Shekhar,Shashi**Description:** Student may contact the instructor or department for information.**CSCI 8760 Plan B Project****S-N only, 3 credit(s); prereq CSci MS student, instr consent;****Instructor:** Terveen,Loren Gilbert**Description:** Student may contact the instructor or department for information.**CSCI 8760 Plan B Project****S-N only, 3 credit(s); prereq CSci MS student, instr consent;****Instructor:** Gini,Maria L**Description:** Student may contact the instructor or department for information.**CSCI 8760 Plan B Project****S-N only, 3 credit(s); prereq CSci MS student, instr consent;****Instructor:** Roumeliotis,Stergios**Description:** Student may contact the instructor or department for information.**CSCI 8760 Plan B Project****S-N only, 3 credit(s); prereq CSci MS student, instr consent;****Instructor:** Schrater,Paul Robert**Description:** Student may contact the instructor or department for information.**CSCI 8760 Plan B Project****S-N only, 3 credit(s); prereq CSci MS student, instr consent;****Instructor:** Kim,Yongdae**Description:** Student may contact the instructor or department for information.**CSCI 8760 Plan B Project****S-N only, 3 credit(s); prereq CSci MS student, instr consent;****Instructor:** Srivastava,Jaideep**Description:** Student may contact the instructor or department for information.**CSCI 8760 Plan B Project****S-N only, 3 credit(s); prereq CSci MS student, instr consent;****Instructor:** Schuler,William Edward**Description:** Student may contact the instructor or department for information.**CSCI 8760 Plan B Project****S-N only, 3 credit(s); prereq CSci MS student, instr consent;****Instructor:** Interrante,Victoria**Description:** Student may contact the instructor or department for information.**CSCI 8760 Plan B Project****S-N only, 3 credit(s); prereq CSci MS student, instr consent;****Instructor:** Chandra,Abhishek**Description:** Student may contact the instructor or department for information.**CSCI 8760 Plan B Project****S-N only, 3 credit(s); prereq CSci MS student, instr consent;****Instructor:** Kuang,Rui**Description:** Student may contact the instructor or department for information.**CSCI 8760 Plan B Project****S-N only, 3 credit(s); prereq CSci MS student, instr consent;****Instructor:** Zhai,Antonia Bingheng**Description:** Student may contact the instructor or department for information.**CSCI 8760 Plan B Project****S-N only, 3 credit(s); prereq CSci MS student, instr consent;****Instructor:** Weissman,Jon B**Description:** Student may contact the instructor or department for information.**CSCI 8760 Plan B Project****S-N only, 3 credit(s); prereq CSci MS student, instr consent;****Instructor:** Mokbel,Mohamed F**Description:** Student may contact the instructor or department for information.**CSCI 8760 Plan B Project****S-N only, 3 credit(s); prereq CSci MS student, instr consent;****Instructor:** Hsu,Wei Chung**Description:** Student may contact the instructor or department for information.**CSCI 8760 Plan B Project****S-N only, 3 credit(s); prereq CSci MS student, instr consent;****Instructor:** Banerjee,Arindam**Description:** Student may contact the instructor or department for information.**CSCI 8760 Plan B Project****S-N only, 3 credit(s); prereq CSci MS student, instr consent;****Instructor:** He,Tian**Description:** Student may contact the instructor or department for information.**CSCI 8760 Plan B Project****S-N only, 3 credit(s); prereq CSci MS student, instr consent;****Instructor:** Myers,Chad Leighton**Description:** Student may contact the instructor or department for information.**CSCI 8760 Plan B Project****S-N only, 3 credit(s); prereq CSci MS student, instr consent;****Instructor:** Nadathur,Gopalan**CSCI 8760 Plan B Project****S-N only, 3 credit(s); prereq CSci MS student, instr consent;****Instructor:** Keefe,Daniel F**Description:** Student may contact the instructor or department for information.

CSCI 8760 Plan B Project**S-N only, 3 credit(s); prereq CSci MS student, instr consent;****Instructor:** Isler,Ibrahim Volkan**Description:** Student may contact the instructor or department for information.**CSCI 8970 Computer Science Colloquium****S-N only, 1 credit(s), max credits 3, 3 completions allowed;****Instructor:** Kim,Yongdae**Description:** Student may contact the instructor or department for information.**CSCI 8980 Special Advanced Topics in Computer Science:****Creating the Social Web****3 credit(s), max credits 9, 9 completions allowed; prereq****instr consent ;****Instructor:** Riedl,John T**Description:** Student may contact the instructor or department for information.**CSCI 8980 Special Advanced Topics in Computer Science:****Computer Graphics & Design:Principles&Applications****1-3 credit(s), max credits 9, 9 completions allowed; prereq****instr consent ;****Instructor:** Meyer,Gary W

Description: In this course we will study the relationship between the field of design, broadly defined, and the field of computer graphics. Drawing on the rich selection of design disciplines taught at the UM, guest lectures will be presented by faculty from both the College of Design and the Institute of Technology. Among the design fields that may be surveyed are graphic design, architectural design, apparel design, mechanical design, interior design, electrical design, lighting design, and product design. We will also read and discuss recent papers from the computer graphics literature. These papers may directly address a problem taken from a design field or they may cover a relevant computer graphic technique that could be used in a design application. To have the necessary background for this class, you should have taken at least one computer graphics course (either here or at another university) or be currently enrolled in an introductory computer graphics class (4107 or 5107). You can register for one to three credits depending on the amount of work that you want to do. Attending class and participating in the discussion of the assigned readings will earn you a single credit. Going to class and assisting in the presentation of the papers will get you two credits. To receive the third credit you will need to add a project in which you implement one or more of the algorithms described in the articles.

CSCI 8980 Special Advanced Topics in Computer Science:**Virtualization: Principles and Applications****3 credit(s), max credits 9, 9 completions allowed; prereq****instr consent ;****Instructor:** Chandra,Abhishek**Description:** Student may contact the instructor or department for information.**CSCI 8991 Independent Study****1-3 credit(s), max credits 9, 9 completions allowed; prereq****instr consent ;****Instructor:** Swanson,Charles D**Description:** Student may contact the instructor or department for information.**CSCI 8991 Independent Study****1-3 credit(s), max credits 9, 9 completions allowed; prereq****instr consent ;****Instructor:** Carlis,John Vincent**Description:** Student may contact the instructor or department for information.**CSCI 8991 Independent Study****1-3 credit(s), max credits 9, 9 completions allowed; prereq****instr consent ;****Instructor:** Dovolis,Chris John**Description:** Student may contact the instructor or department

for information.

CSCI 8991 Independent Study**1-3 credit(s), max credits 9, 9 completions allowed; prereq****instr consent ;****Instructor:** Collins,John**Description:** Student may contact the instructor or department for information.**CSCI 8991 Independent Study****1-3 credit(s), max credits 9, 9 completions allowed; prereq****instr consent ;****Instructor:** Karypis,George**Description:** Student may contact the instructor or department for information.**CSCI 8991 Independent Study****1-3 credit(s), max credits 9, 9 completions allowed; prereq****instr consent ;****Instructor:** Hopper,Nicholas J**Description:** Student may contact the instructor or department for information.**CSCI 8991 Independent Study****1-3 credit(s), max credits 9, 9 completions allowed; prereq****instr consent ;****Instructor:** Yew,Pen-Chung**Description:** Student may contact the instructor or department for information.**CSCI 8991 Independent Study****1-3 credit(s), max credits 9, 9 completions allowed; prereq****instr consent ;****Instructor:** Zhang,Zhi-Li**Description:** Student may contact the instructor or department for information.**CSCI 8991 Independent Study****1-3 credit(s), max credits 9, 9 completions allowed; prereq****instr consent ;****Instructor:** Barry,Phillip**Description:** Student may contact the instructor or department for information.**CSCI 8991 Independent Study****1-3 credit(s), max credits 9, 9 completions allowed; prereq****instr consent ;****Instructor:** Konstan,Joseph Andrew**Description:** Student may contact the instructor or department for information.**CSCI 8991 Independent Study****1-3 credit(s), max credits 9, 9 completions allowed; prereq****instr consent ;****Instructor:** Boley,Daniel L**Description:** Student may contact the instructor or department for information.**CSCI 8991 Independent Study****1-3 credit(s), max credits 9, 9 completions allowed; prereq****instr consent ;****Instructor:** Papanikolopoulos,Nikolaos P**Description:** Student may contact the instructor or department for information.**CSCI 8991 Independent Study****1-3 credit(s), max credits 9, 9 completions allowed; prereq****instr consent ;****Instructor:** Riedl,John T**Description:** Student may contact the instructor or department for information.**CSCI 8991 Independent Study****1-3 credit(s), max credits 9, 9 completions allowed; prereq****instr consent ;**

Instructor: Janardan,Ravi

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CSCI 8991 Independent Study

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Instructor: Saad,Yousef

Description: Student may contact the instructor or department for information.

CSCI 8991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ;

Instructor: Sturtivant,Carl

Description: Student may contact the instructor or department for information.

CSCI 8991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ;

Instructor: Kumar,Vipin

Description: Student may contact the instructor or department for information.

CSCI 8991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ;

Instructor: Tripathi,Anand R

Description: Student may contact the instructor or department for information.

CSCI 8991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ;

Instructor: Shragowitz,Eugene

Description: Student may contact the instructor or department for information.

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1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ;

Instructor: Du,David Hung-Chang

Description: Student may contact the instructor or department for information.

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Instructor: Schrater,Paul Robert

Description: Student may contact the instructor or department for information.

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Instructor: Srivastava,Jaideep

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Description: Student may contact the instructor or department for information.

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CSCI 8991 Independent Study

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Instructor: Hsu,Wei Chung

Description: Student may contact the instructor or department for information.

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1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ;

Instructor: He,Tian

Description: Student may contact the instructor or department for information.

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1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ;

Instructor: Nadathur,Gopalan

Description: Student may contact the instructor or department for information.

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Instructor: Meyer,Gary W

Description: Student may contact the instructor or department for information.

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1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ;

Instructor: VanWyk,Eric

Description: Student may contact the instructor or department for information.

CSCI 8991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ;

Instructor: Terveen,Loren Gilbert

Description: Student may contact the instructor or department for information.

CSCI 8991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ;

Instructor: Roumeliotis,Stergios

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Instructor: Kim,Yongdae

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Instructor: Chandra,Abhishek

Description: Student may contact the instructor or department for information.

CSCI 8991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ;

Instructor: Zhai,Antonia Bingheng

Description: Student may contact the instructor or department for information.

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Description: Student may contact the instructor or department for information.

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1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ;

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CSCI 8991 Independent Study

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Instructor: Myers,Chad Leighton

Description: Student may contact the instructor or department for information.

CSCI 8991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ;

Instructor: Keefe,Daniel F

Description: Student may contact the instructor or department for information.

CSCI 8991 Independent Study

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ;

Instructor: Isler,Ibrahim Volkan

Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ;

Instructor: Swanson,Charles D

Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ;

Instructor: Carlis,John Vincent

Description: Student may contact the instructor or department

for information.

CSCI 8994 Directed Research in Computer Science

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ;

Instructor: Dovolis,Chris John

Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ;

Instructor: Collins,John

Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ;

Instructor: Karypis,George

Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ;

Instructor: Hopper,Nicholas J

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CSCI 8994 Directed Research in Computer Science

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ;

Instructor: Yew,Pen-Chung

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CSCI 8994 Directed Research in Computer Science

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ;

Instructor: Zhang,Zhi-Li

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CSCI 8994 Directed Research in Computer Science

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ;

Instructor: Barry,Phillip

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CSCI 8994 Directed Research in Computer Science

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ;

Instructor: Boley,Daniel L

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CSCI 8994 Directed Research in Computer Science

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ;

Instructor: Papanikolopoulos,Nikolaos P

Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ;

Instructor: Riedl,John T

Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ;

Instructor: Janardan,Ravi

Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ;

Instructor: Saad,Yousef

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CSCI 8994 Directed Research in Computer Science

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ;

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CSCI 8994 Directed Research in Computer Science

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ;

Instructor: Kumar,Vipin

Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ;

Instructor: Tripathi,Anand R

Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ;

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CSCI 8994 Directed Research in Computer Science

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Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science

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Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science

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CSCI 8994 Directed Research in Computer Science

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ;

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Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ;

Instructor: Srivastava,Jaideep

Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ;

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CSCI 8994 Directed Research in Computer Science

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ;

Instructor: Nadathur,Gopalan

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CSCI 8994 Directed Research in Computer Science

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ;

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CSCI 8994 Directed Research in Computer Science

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ;

Instructor: VanWyk,Eric

Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science

1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ;

Instructor: Terveen,Loren Gilbert

Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
 1-3 credit(s), max credits 9, 9 completions allowed; prereq
 instr consent ;
Instructor: Roumeliotis,Stergios
Description: Student may contact the instructor or department
 for information.

CSCI 8994 Directed Research in Computer Science
 1-3 credit(s), max credits 9, 9 completions allowed; prereq
 instr consent ;
Instructor: Kim,Yongdae
Description: Student may contact the instructor or department
 for information.

CSCI 8994 Directed Research in Computer Science
 1-3 credit(s), max credits 9, 9 completions allowed; prereq
 instr consent ;
Instructor: Schuler,William Edward
Description: Student may contact the instructor or department
 for information.

CSCI 8994 Directed Research in Computer Science
 1-3 credit(s), max credits 9, 9 completions allowed; prereq
 instr consent ;
Instructor: Chandra,Abhishek
Description: Student may contact the instructor or department
 for information.

CSCI 8994 Directed Research in Computer Science
 1-3 credit(s), max credits 9, 9 completions allowed; prereq
 instr consent ;
Instructor: Zhai,Antonia Bingheng
Description: Student may contact the instructor or department
 for information.

CSCI 8994 Directed Research in Computer Science
 1-3 credit(s), max credits 9, 9 completions allowed; prereq
 instr consent ;
Instructor: Mokbel,Mohamed F
Description: Student may contact the instructor or department
 for information.

CSCI 8994 Directed Research in Computer Science
 1-3 credit(s), max credits 9, 9 completions allowed; prereq
 instr consent ;
Instructor: Banerjee,Arindam
Description: Student may contact the instructor or department
 for information.

CSCI 8994 Directed Research in Computer Science
 1-3 credit(s), max credits 9, 9 completions allowed; prereq
 instr consent ;
Instructor: Myers,Chad Leighton
Description: Student may contact the instructor or department
 for information.

CSCI 8994 Directed Research in Computer Science
 1-3 credit(s), max credits 9, 9 completions allowed; prereq
 instr consent ;
Instructor: Keefe,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; prereq
 instr consent ;
Instructor: Isler,Ibrahim Volkan
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;
 prereq instr consent;
Instructor: Oberhauser,Karen S
Description: Student may contact the instructor or department
 for information.

CBIO 8095 Contemporary Problems in Conservation Biology
 S-N only, 1 credit(s), max credits 3, 1 completion allowed;
 prereq 8004, FW 8452, instr consent;
Instructor: Oberhauser,Karen S
Description: Student may contact the instructor or department
 for information.

**CBIO 8103 Research in Support of Resource Management: a
 Dialog With Land Managers**
 S-N only, 2 credit(s);
Instructor: Larson,Diane
Description: Student may contact the instructor or department
 for information.

CBIO 8201 How to Excel in Graduate School
 S-N only, 1 credit(s), max credits 4, 4 completions allowed;
Instructor: Vondracek,Bruce
Description: Student may contact the instructor or department
 for information.

Construction Management

20 Classroom Office Building

CMGT 2019 AutoCAD for Construction Managers
 S-N only, 2 credit(s); prereq 30 sem cr;
Instructor: Johnson,Ann M
Description: Introduction to AutoCAD software skills. Learn and
 apply the techniques of computer-aided design and drafting
 (CAD) at a job entry level of proficiency. Combined lecture and
 laboratory.

CMGT 3001 Introduction to Construction
 3 credit(s);
Instructor: Kuehni,Rose Marie
Description: Introduction to construction and processes that
 shape our environment. A discussion of construction types and
 their differences, key participants and their vocabulary, and
 delivery systems. Construction specialists and their roles.
 Elements of the management of construction. Construction plan
 reading. Course consists of lectures and field trips.

CMGT 3011 Construction Plan Reading
 2 credit(s);
Instructor: Kuehni,Rose Marie
Description: Introductory level course in construction plan
 reading and construction documents. Course materials include
 architectural, civil, mechanical, electrical drawings and project
 manual. The emphasis is on the development of skills necessary
 for the reading, understanding and interpretation of commercial
 construction plans and project manuals, including notes,
 symbols, and plan layout. This course is appropriate for third
 year Construction Management and CALA students, and at any
 time for students in IT and other colleges.

CMGT 4011 Construction Documents and Contracts
 3 credit(s); prereq 3001, 45 sem cr;
Instructor: Headrick,Michael George
Description: Student may contact the instructor or department
 for information.

CMGT 4012 Risk Management, Bonds, and Insurance
 2 credit(s); prereq 3001, 45 sem cr;
Instructor: STAFF
Description: Identification and evaluation of property, liability,
 and financial risks of a construction project. Tools of risk control

Conservation Biology

199 McNeal Hall

and risk financing. Review of insurance coverage, contract bonds, and underwriting factors.

CMGT 4013 Legal and Ethical Issues in Construction

3 credit(s); prereq 4011 or equiv or instr consent ; Instructor: Mackay,Deborah

Description: Student may contact the instructor or department for information.

CMGT 4021 Construction Planning and Scheduling

3 credit(s); prereq 3001, [3011 or CE 4101], 45 sem cr;

Instructor: Styrlund,Kenneth Andre

Description: Concepts of project planning, scheduling, and control. Understanding project scheduling models with emphasis on the critical path method. Introduction to the techniques used in the industry utilizing commercial software on personal computers. The importance of periodic updating and analysis of schedules and of considering and understanding alternatives will be stressed.

CMGT 4021 Construction Planning and Scheduling

3 credit(s); prereq 3001, [3011 or CE 4101], 45 sem cr;

Instructor: Bozicevich,Karl J

Description: Concepts of project planning, scheduling, and control. Understanding project scheduling models with emphasis on the critical path method. Introduction to the techniques used in the industry utilizing commercial software on personal computers. The importance of periodic updating and analysis of schedules and of considering and understanding alternatives will be stressed.

CMGT 4022 Construction Estimating

3 credit(s); prereq 3001, [3011 or CE 4101], 45 sem cr;

Instructor: Hilger,Peter

Description: Purposes and uses of various kinds of estimates. Techniques for performing quantity take-off, organizing bidding process, requesting and analyzing subcontractor proposals, unit pricing, utilizing published resources, and preparing systems-based estimates. Personal computer programs, spreadsheets, and custom applications to be introduced and used. The linkages between estimates, budgets, cost control systems, and historical cost records will be established.

CMGT 4031 Construction Safety and Loss Control

3 credit(s); prereq 3001, 45 sem cr;

Instructor: Carroll,Mil

Description: Introduction to construction safety, health, and loss control. Hazard recognition. Control procedures. Management systems for measuring/evaluating loss-control performances in construction industry.

CMGT 4193 Directed Study

1-4 credit(s), max credits 12, 3 completions allowed; prereq Admitted to CMgt major or minor or certificate;

Instructor: STAFF

Description: Topic arranged with B.A.S. Construction Management academic adviser. [See B.A.S. Web site at www.cce.umn.edu/bas for additional course information.]

CMGT 4196 Construction Management Internship

S-N only, 1-4 credit(s), max credits 12, 3 completions allowed; prereq [CMgt major or minor or certificate student], [jr or sr], dept consent ;

Instructor: STAFF

Description: Career preparation in construction management. Students will gain hands-on work experiences in a construction company, applying coursework in the work place, contributing knowledge of best practices to make a positive impact on the construction industry, and participate in career development exercises. Professional experience internship requirement for BAsC in Construction Management. May take course maximum of 3 times at maximum 4 credits for total of 12 credits maximum. 1 credit equivalent to 1 month of internship.

CMGT 4201 Construction Accounting

3 credit(s); prereq 3001, Acct 2050, ABus 4101;

Instructor: Merz,Gregory T

Description: Accounting for the construction industry differs significantly from accounting in other businesses and industries. This course focuses mainly on the unique characteristics and dissimilarities which are crucial for all parties involved to understand and manage the construction process. The course will cover those unique aspects of construction financial accounting, managerial accounting, tax planning and auditing.

CMGT 4572 Structural Frames and Building

Design/Construction

A-F only, 3 credit(s); prereq 3001, [AEM 2011 or BP 3001 or BP 3101] Credit will not be granted if the student has already completed Arch 4571 or Arch 4572;

Instructor: STAFF

Description: Investigation of basic contemporary structural systems in masonry, steel and wood framing systems. An exploration of forms and performance of these systems.

Continuing Dental Education

6-406 Moos Tower

CDED 7303 Postgraduate Contemporary Esthetic Dentistry:

Level III--Dental Implants

S-N only, 2 credit(s);

Instructor: Olin,Paul S

Description: Student may contact the instructor or department for information.

CDED 7306 Postgraduate Contemporary Esthetic Dentistry:

Level III--Diagnostic Box

S-N only, 1 credit(s);

Instructor: Olin,Paul S

Description: Student may contact the instructor or department for information.

Cultural Studies and Comparative Literature

235 Nicholson Hall

CSCL 1001 Introduction to Cultural Studies: Rhetoric, Power, Desire

4 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core;

Instructor: Brown Jr,Robert L

Description: How did we become who we are? How did we become "women" or "men," "gay" or 'straight'? Where did we get our tastes in clothes, food, music, and decorative arts? And where did we get our political, religious and philosophical beliefs, our sense of what's logical, natural, and believable? Cultural Studies assumes that the world around us (our culture) means, and that its meanings are central in creating us--individually and collectively. And it assumes culture can be "read." CSCL 1001 explores cultural reading, examining the "texts" around us: music videos, television and film, some paintings and photographs, magazine ads, poetry, a graphic novel, science and science journalism, and some "practices" from everyday life: dress, manners and body decoration. The "rhetoric" of culture transmits a view of the world and our loyalty to that view. Its systems of "power" fold us and our texts into large, historical conversations and struggles over ideas and social positions. And the operations of "desire" direct who and what we love, where we find pleasure and how these pleasures figure in the process of making and reproducing culture. It's a basic course for majors and non-majors interested in making sense of their worlds.

Style: 60% Lecture, 40% Discussion.

Grading: 20% mid exam, 30% final exam, 50% reports/papers.

Exam Format: open-book; short, guided answers

CSCL 1101 Literature

4 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Literature Core;

Instructor: Casarino, Cesare

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. Included are epic and lyric poetry, plays, novels, parables, and essays by a wide variety of authors from various times and places.

Style: 100% Lecture.

Grading: 20% final exam, 80% reports/papers. class attendance is mandatory and will be checked

Exam Format: 20 questions requiring short answers (i.e. ranging from a few words to a few sentences).

CSCL 1201 Introduction to Cinema and Media Culture

4 credit(s); Credit will not be granted if credit has been received for: SCMC 1201; Meets CLE req of Other Humanities Core;

Instructor: STAFF

Description: The emergence of what is variously referred to as the "Information Age" and "Society of the Spectacle" has made it necessary for us to think critically about the media. Since visual media have the most pervasive influence on our everyday lives, this course will focus on how forms such as advertising, film, and television work, affect perception, and structure meaning. We will read some of the most important theoretical and historical texts that provide insight into our "ways of seeing." No prior exposure to media theory is expected, but although this is an introductory class, students will be expected to read and work through challenging material. We will read a variety of critics who have attempted to analyze cinema and media culture and we will also begin to develop a vocabulary for formal visual analysis.

CSCL 1301W Reading Culture: Theory and Practice

4 credit(s); Meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive;

Instructor: STAFF

Description: CSCL 1301W Reading Culture: Theory and Practice 4 credits, meets Lib Ed req of Other Humanities Core; meets Lib Ed req of Writing Intensive Instructor: STAFF
Description: This course turns on one central question: How do things 'mean'? Specifically, how do cultural texts mean in relation to each other and to human life in society and across history? 'Cultural texts' are made objects and forms of communication that encode messages and values, and that produce effects--anything from movies, TV shows, magazine ads and rock concerts to 'high art' (paintings, classical music, plays, poems, etc.). The course specifically examines: (1) the role played by cultural forms in creating, maintaining or challenging social boundaries and power relationships; and (2) the ways art and culture function as sites where creative and alternative visions of 'the good life' come into being. Small classes emphasize close reading, discussion, and practice in critical writing. An introductory course in every sense, it's a good place to start thinking about what "culture" is and how it works. It will also help you develop reading and writing techniques useful for many courses and majors. Class Time: 40% lecture, 60% discussion

CSCL 1401W Reading Literature: Theory and Practice

4 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;

Instructor: STAFF

Description: CSCL 1401W Reading Literature: Theory and Practice 4 credits, meets Lib Ed req of International Perspect Theme; meets Lib Ed req of Literature Core; meets Lib Ed req of Writing Intensive Instructor: STAFF
Description: What is

Literature? How do definitions of it differ over time and across cultures? How does literature play a role in the ways people see themselves and others? How do our histories - personal and cultural - determine how we read it? CSCL 1401W examines such questions in relation to larger patterns of culture and power. You'll emerge from the course with a solid sense of the differences among various genres, and the cultural contexts from which they arise - between an epic poem emerging from a Greek city state and a novel by a German civil servant, say. Small classes emphasize close reading, discussion, and practice in critical writing. An introductory course in every sense, it will give you a good sense of the field of Comparative Literature as well as reading and writing skills useful in many other courses and disciplines. Class Time: 40% lecture, 60% discussion

CSCL 1501W Reading History: Theory and Practice

4 credit(s); Meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive;

Instructor: STAFF

Description: CSCL 1501W Reading History: Theory and Practice 4 credits, meets Lib Ed req of Historical Perspective Core; meets Lib Ed req of Writing Intensive Instructor: STAFF
Description: What is history - is it what we get on The History Channel, or is it something else? Who controls it, who decides what gets included and what's important? Why has history become such a hot political topic - textbooks in schools, for example? This course examines such questions, starting from two assumptions: (1) that history can have explanatory power--it can tell us why things got to be the way they are; but (2) that all history comes to us in a mediated way, that is, as a "text" that encodes someone's or some group's version of it. Small classes focus on reading a variety of texts "in" history - the Mall of America, a Nazi rally, a 17th century Dutch painting; "history on television," the representation of the human body, etc., as well as some critical theory "about" history, designed to help you think about its importance, its uses and abuses. Class Time: 40% lecture, 60% discussion

CSCL 1909W Freshman Seminar

A-F only, 3 credit(s), max credits 6; prereq Fr; Meets CLE req of International Perspect Theme; meets CLE req of Writing Intensive;

Instructor: Tageldin, Shaden M

Description: Empire may seem a world away--removed in time (a relic of pre-1960s history) or removed in space (something that affects only the so-called "Third World"). But empire is, in fact, at least as close as our TV sets and computer screens, and sometimes it speaks a language very familiar to us as students: coverage of the U.S. occupation of Iraq, for example, has brought us images of U.S. army officers not just shooting on the ground but also pointing at the blackboard, "teaching" Iraqi police how to reinvent their country as an American-style democracy with freedoms of religion, conscience, and speech. In this seminar, we will try to better understand why education and empire remain so closely linked today by studying cultures, both close to home and faraway, that have experienced foreign domination as a two-faced process: a process, in the words of Senegalese novelist Cheikh Hamidou Kane, whose cannons force the body and whose schools fascinate the soul. We will discuss novels, essays, poems, and films by African, Arab, Asian, immigrant, minority, and working-class writers who use classroom scenes to represent empire and a range of responses to its power--ambivalence, assimilation, resistance, revolt. Along the way, we also will think about what we can take from our *own* educations as they take control of us. Readings may include Kane, Chahine, Ahmed, Dangarembga, Salih, Jussawalla, Narayan, Anzaldúa, hooks, and others. Open to first-year majors and non-majors.

CSCL 1921 Introduction to Film Study

4 credit(s); Credit will not be granted if credit has been received for: ARTH 1921W; Meets CLE req of Other Humanities Core;

Instructor: STAFF

Description: This course is about movies--what they are, how they work, and ways we can watch, read, and enjoy them with a

critical eye. Our basic questions are: How do films make meaning? How do they construct a world for us, while (often) giving the impression that that constructed world is natural and inevitable? How do films position us as viewers and shape us as subjects? What is the relation between the film text and the political economy of the industry? We'll look at a wide variety of films from different times and places and consider some of the rich diversity of writing known collectively as Film Theory. This is a basic introductory course designed for those who love going to the movies, but want to understand them better.

CSCS 3115 Cinema and Ideology

4 credit(s); Meets CLE req of Other Humanities Core;

Instructor: Ganguly,Keya

Description: This is a course in film criticism and theories of ideology. Our concern will be to gain a critical perspective on the problem of ideology as it pertains to the cinema (rather than with the ideological content of films per se--though that too will be addressed). Theorizing issues of cinema and ideology requires that we have a shared understanding of (1) film form: how the technical apparatus of film functions to produce ideological understandings of the world; (2) film content: how ideology is inscribed in and through filmic narrative; and (3) film spectatorship: how (and whether) the ways that viewers are positioned to make sense of themselves and the world have implications for social relations at large (outside the cinema). Using formal, theoretical and interpretive arguments, we will attempt to formulate readings both of recurrent ideological themes in the cinema (such as: class conflict; corporate crime; political repression and conspiracy) as well as develop conceptual arguments about the nature of the cinematic image.

CSCS 3172 Music as Discourse

3 credit(s); Meets CLE req of Other Humanities Core;

Instructor: Leppert,Richard

Description: The real or imagined power of music (whether for evil or good), as well as its social uses, and its psychic and cultural meanings have been the subject of human reflection--and anxiety--from Plato to the present. This course will examine the ways in which music can be considered a "discursive practice," i.e., how music participates in the formation of social norms, as well as human consciousness, identities, and attitudes toward the self and others; how and for what purposes music is used; what (and who) distinguishes "music" from "noise"; and why some musics are policed and censored. Two comments by the modern philosopher of music, Theodor Adorno, nicely frame what this course is about: "I believe in the strict knowability of music, because music is itself knowledge, and in its way very strict knowledge"; and "As soon as one starts to discuss music, one enters the realm of thought, and no power on earth has the right to silence this." Blues, country, r & b, punk, rock, jazz, opera, orchestral, and other musics.

Style: 85% Lecture, 15% Discussion.

Grading: 25% mid exam, 25% final exam, 25% reports/papers, 25% additional semester exams. 3 exams (including final), each worth 25% of total grade + 1 paper (approximately 6 pp.)

Exam Format: principally essay

CSCS 3173W The Rhetoric of Everyday Life

3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive;

Instructor: Hubbard,Kysa Koerner

Description: How does "everyday life" - that is, the mundane, quotidian realm of the "ordinary" - contribute to the formation and regulation of human consciousness? What does your decision to go on a diet or to start seeing a shrink or to put that high school graduation money from Grandma into the stock market mean in this particular culture at this particular moment in time? What rhetorical, ideological, and material structures were in place that helped bring you to those decisions, or at minimum, made those decisions not only conceivable in the first place, but possible? What do these everyday choices and practices reveal about your personal identity, perceptions, thoughts, values, and ontological understanding of the world around you, not to mention the cultural, political, and socioeconomic forces positioning you -

materially and symbolically - as a particular kind of person who relates to her/himself and others in particular kinds of ways? "The Rhetoric of Everyday Life" examines how the sights, sounds, myths, and texts surrounding us contribute to the constitution of our subjectivity(ies), to our beliefs regarding what's (im)possible, "normal," and "natural," and finally, to the ways in which we (don't) see and relate to power. We will read core works in semiotics, rhetoric, and Marxist theory, as well as qualitative sociology and Neo-Marxist critique, "trying on" these theoretical glasses, and applying them to everyday life. Engaging texts as multi-varied and seemingly incongruous as vitamin ads, a Chinese blue jeans factory, Star magazine, and mainstream news coverage of politics and the economy, we'll pay particular attention to the dynamic relationship between consumer capitalism, politics, and the rhetoric, expectations, and practices of contemporary citizenship.

Style: 40% Lecture, 20% Film/Video, 30% Discussion, 10% Small Group Activities.

CSCS 3173W The Rhetoric of Everyday Life

3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive;

Instructor: Wlodarczyk,Holley Ann

Description: While at first glance it might seem that there's not much that is "interesting" about everyday life, this is where and how we spend a majority of our lives, and a lens through which we understand some of the most complicated aspects of our identities, desires, possessions, relationships, and world views. In this course we will examine the rhythms and rhetoric that structure and define our daily existence, analyzing many of the cultural texts and contexts associated with everyday life (including but not limited to: bodies, fashion, money, jobs, leisure, transportation, the built environment, popular media, personal communication, daily routines, etc.). Utilizing diverse theoretical paradigms that contribute to cultural studies, we will engage the following questions: * How do we express "who" we are in relation to other people in our daily lives? * How do we decide "where" we will live and work, and what we expect from these places? * How do we know "when" it's time to work, play, or rest from hour to hour, day to day? * How do we discern between "what" we want or need to both satisfy and sustain us? * How do we understand "why" the world is the way it is and how we function in it? As well as undertaking brief comparative studies across time, geography and culture as a class, small groups will contribute to a semester-long case study to be published and peer-reviewed on our course website. Class Time: 30% Lecture, 40% Discussion, 20% Film/Video, and 10% Group Work. Work Load: 20-40 pages reading per week, 15 pages writing per term, 0 exams, 3 papers, 1 group project, and threaded discussion online.

CSCS 3175 Comedy: Text and Theory

3 credit(s); Meets CLE req of Other Humanities Core;

Instructor: Opitz,Andrew Michael

Description: This course should be fun! Many of the materials we will read and watch are trying to be funny, even if they do not always succeed. However, this is also a course that sets out to take comedy and laughter seriously. Students will study a mix of theater, film, and TV texts, along with scholarly works of cultural theory, in hopes of gaining a better understanding of what comedy is and how it functions in our society. We will trace the historical development of comedy from the ancient world to modern Hollywood. We will examine the mechanics of comedy. How do comedies play with our expectations and make us laugh? We will also study the cultural politics of comedy. How does comedy fit into our daily lives, our leisure activities and our political debates? If we find it funny, what makes it funny? If we find it offensive, what makes it offensive? Please be advised that some of the comedies we examine will be rude, gross and disrespectful. If you are easily offended by salty language, sex and other hilarious bodily functions, this may not be the course for you. Texts may include plays by Aristophanes and Moliere, satires by Voltaire, films by Charlie Chaplin and Judd Apatow, stand-up routines by George Carlin and Sarah Silverman, TV shows including The Daily Show and South Park, and satirical

publications like *The Onion*.

Style: 60% Lecture, 15% Film/Video, 25% Discussion.

CSCL 3176 Oppositional Cinemas

4 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core;

Instructor: Adamson, Morgan Marie

Description: Student may contact the instructor or department for information.

CSCL 3177 On Television

4 credit(s);

Instructor: Labidi, Imed

Description: That the impact of television on our daily life, political views, and social habits is stronger than ever before is perhaps unarguably correct. Television, consumer society, and the culture of commercialism, as Benjamin would argue replaced the real world by representations of the real. Sustained with the rapid reproduction and replication of auditory and visual images, embedded messages, and manipulative advertising strategies, these simulations serve to validate ideas about culture, behavior, gender, race, class, and social interaction, while promoting commercial values. Hence, the purpose of this course is to use a variety of critical approaches to study mass media and address analytical questions such as: who owns the media? Who are the architects behind certain programs? What are their intentions? Has television been transformed into an elitist instrument of hegemony? And how does it manage to shape consciously or subconsciously our beliefs, attitudes, and understanding of abstract concepts such as beauty. Answers to these questions 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);

Instructor: Hudecova, Eva Ruth

Description: It was the German theoretician Theodor Adorno who argued that the manner in which members of advanced industrial societies spent their "free time" had in fact nothing to do with relaxation and was only a way to keep the working citizen in a regular routine. Watching TV at night after a long days' work had no enjoyment in it. The TV-viewer did not 'collect' any food for thought or discussion. It was a bland, brainless activity that gave the worker the illusion of not having worked while in actuality being a mere extension of work. TV, with its own specific routine prepared the viewer for the routine of the coming day. These are the kinds of -- still widely believed -- reservations a course dealing with a critical examination of the current world of TV and TV criticism will have to face. Some of the examined questions will be: What is entertainment? What makes the private watching of TV in our living rooms TV different from other forms of entertainment? Is TV a useful escape from the world or is it a dangerous threat to the world? Or, is TV, as a key element of reality, filled with contradiction and struggle? TV mediates relationships, whether it is on the inter-personal level, between races, classes, or in our relationship to technology. It is constantly changing. It is the largest export of the USA. And, as many have argued, it is one of the most important nation-building factors in the USA. TV has made the private public in a way no other medium heretofore ever has. These are just a few of the reasons to build a critical vocabulary and develop a watchful eye towards something that takes up significant sections of the day for many of us.

CSCL 3321W Theories of Culture

3 credit(s); Meets CLE req of Writing Intensive;

Instructor: Conley, John E

Description: What do we talk about when we talk about culture? That is, how has the concept of culture ? by now, a main component in a number of academic disciplines such as

anthropology, cultural studies, sociology, literature, history, media studies, and area studies, just to name a few ? come to be such a critical means to explain, criticize, and/or legitimate the complexities and conflicts of everyday life? This course focuses on a number of key thinkers such as Simone DeBeauvoir, W.E.B. DuBois, Franz Fanon, Sigmund Freud, and Karl Marx whose contributions have had ? and continue to have ? some lasting effects on the way in which we struggle over the field of culture. Additionally, we will also consider a number of texts that engage changing realities of the American university ? which is, after all, the setting in which we will be thinking about all of this in the first place. Be ready for tough texts, tough questions, and tough debates around such ideas as class, race, gender, ideology, history, colonialism, and the university.

Style: 40% Lecture, 30% Discussion, 30% Student Presentation.

CSCL 3361 Visions of Nature: The Natural World and Political Thought

4 credit(s); Credit will not be granted if credit has been received for: EEB 3361; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Environment Theme;

Instructor: Opitz, Andrew Michael

Description: This course will examine the origins and the historical evolution of our modern understanding of the natural world. How do we imagine nature, and do other cultures (past and present) imagine it differently? Where exactly did our current understanding of the natural world come from, and where does it seem to be heading in the future? In asking these questions, we will also explore how different visions of nature (nature as God's creation, nature as a mechanical structure, nature as a complex ecosystem, human nature etc.) have shaped our approach to politics, economics and government. Students will examine a mix of biology, political philosophy, literature, film and cultural theory texts as part of a course of study designed to investigate where, why and how politics and nature intersect in our world today. Readings will likely include works by Thomas Aquinas, Thomas Jefferson, Rousseau, Mary Shelley, Charles Darwin, Karl Marx, Rachel Carson, Stephen Jay Gould and others. Screenings may include *Frankenstein* (1931) and *Godzilla* (1954) as well as other films that explore the relationship between nature and politics.

Style: 50% Lecture, 20% Film/Video, 30% Discussion.

CSCL 3456W Sexuality and Culture

3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Writing Intensive;

Instructor: Labidi, Imed

Description: Anchored in Postcolonial, psychoanalysis, and feminist theories, this course engages the dialectics of sexuality and power and the way cultural forms as texts and images represent, express, and capture the constructions of sexuality. Concepts such as biopolitics, masculinity, femininity, gender, and sexual difference are central topics in the course's debate. Moving between political discourse, theoretical texts, and media essentialist notions, we interrogate the (in)visible cultural structures that dictate popular understanding of sexual roles and contest the amorphous conceptualization of race and sexuality. In particular, our discussion places extraordinary emphasis on the political intersection of race, sexuality, and violence. What does it mean to mark some people with excessive sexual appetite and stigmatize others as sexual predators that must be contained? When politicized, how does sexualizing/de-sexualizing facilitate the marginalization of "Others"? Can sexuality serve the purposes of domination? And how does sexual violence become an interrogation technique? We seek to answer these questions through the careful study of influential thinkers such as Bell Hooks, Judith Butler, Frantz Fanon, Michel Foucault, and Sigmund Freud among others. Readings 50-75 pages a week Assignments: 3 essays, 1 presentation, 1 final 8 page paper Attendance is a must

CSCL 3458W The Body and the Politics of Representation

3 credit(s); Meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive;

Instructor: Gasterland-Gustafsson, Gretchen

Description: We will in this course investigate the history of representations of the human body, primarily Western European

representations from about 1500 to the present, and later American representations, What are the roles and positions that the body has occupied in Western thought, philosophy and cultural practice and why have certain positions attained a privileged status over others? How has the corporeal body been shaped, formed molded, and adorned to conform to the changing historical demands and ideals of society? What is the experience of embodiment in these given cultural contexts? We will address these questions to a wide range of materials including visual art in the forms of film, photography, performance, installations, oil paintings, and sculptures, as well as literary representations. In order to facilitate discussion and enhance class participation, every week a group of students will be responsible for a 20 minute presentation designed in conjunction with the instructor to both add to and compliment the materials examined that week. Other requirements are short weekly response papers, a midterm essay, and a final paper and presentation.

CSCL 3458W The Body and the Politics of Representation
3 credit(s); Meets CLE req of Historical Perspective Core;
meets CLE req of Writing Intensive;

Instructor: Hubbard, Kysa Koerner

Description: How do bodies mean? Fat. Thin. Rich. Poor. Can we trace - at least in part - the (Western) historical trajectory of these meanings? Body. Soul. Truth. Error. In what representational forms have these ascriptions been made manifest over culture and time in the West, and how do they continue to shape and inform the ways in which we are bodies and the ways in which we perceive/interpret/understand/regulate them? As feminist philosopher Susan Bordo writes, "The body is not merely flesh and bone, but a surface of inscription, a locus of control, a malleable, intelligible embodiment of material culture and ideology"(1993). Following this, how do issues of gender, race, sexuality, and class figure in here? Can representations of the body ever be innocent? Good. Evil. Dirty. Clean. In this course, we will investigate the various (and nefarious) ways in which past and present Western cultures have codified the human body into socially-constructed, politically-loaded categories that work to both defer and delimit opportunities for and access to power. A history of philosophies of the body will provide a foundation for these inquiries, while sociological, semiotic, and critical theories will help us understand the complex relationships between our perceptions and presentations of the body, and the concrete, habituated ways we come to "embody" them. In short, over the course of fifteen weeks, we will: [1] study visual and textual representations and discourses of the body - historical and contemporary; [2] examine and theorize historical processes, materials, ideological and economic structures and systems that have gone into the (re)making of disciplined, "civilized," "habitualized" bodies; [3] explore philosophical and theoretical concepts that have shaped past and present thinking about the body itself, as well as in representation and practice; [4] engage issues of gender, race, sexuality and class as they have historically intersected and continue to intersect with ideas about and the regulation of marginalized bodies and their representation

Style: 40% Lecture, 20% Film/Video, 30% Discussion, 10% Small Group Activities.

CSCL 3461 Monsters, Robots, Cyborgs

3 credit(s); Meets CLE req of Literature Core;

Instructor: Opitz, Andrew Michael

Description: This course proceeds from the assumption that monsters and monster stories are more than just scary entertainment; they have something to teach us. Monsters speak to our fears, of course, but they can also tell us about the changing social world in which we live? its pressures, relations of production/reproduction and models for correct behavior. Since monsters are almost always ?outsiders,? monster stories can also tell us something about rules for social belonging. Robots and cyborgs, with their machine brains and technologized mutations, play a similar social role. They are modern and postmodern monsters that embody our fears and hopes for the future. This course will enlist students in the careful and critical reading of a number of monster, robot and cyborg stories in hopes gaining a better understanding of their historical origins

and changing cultural meanings. We will examine select literature, film and history texts, as well as scholarly essays addressing key issues in cultural theory, in an effort to make sense of these monstrous beings and their important place in popular culture.

Style: 50% Lecture, 20% Film/Video, 30% Discussion.

Grading: 20% final exam, 40% reports/papers, 20% additional semester exams, 10% attendance, 10% journal.

Exam Format: Multiple choice, matching and short answer

CSCL 3465 Aliens

3 credit(s);

Instructor: Mowitt, John W

Description: Aliens. This is a word that we use to designate both people from other countries and beings from other worlds. Indeed, a currently popular television program, "Aliens in America," relies on this linguistic association. The English language is not unique in this respect, but in this seminar we will resist the temptation to reduce this fact to mere word play. More specifically, instead of debating the currently irresolvable question of whether there is extra-terrestrial life, we will explore whether our actual interactions with people from other countries (direct or indirect; benign or hostile) affect our interest in, anxiety about, fear of, desire to encounter, etc. beings from other worlds. In effect, for us the overriding concern will not be, what are "they" trying to do to us, but rather, what are we using "them" to do either to or for ourselves. The Western idea that there are "multiple worlds" is very old. One finds discussion of this in Plato, for example. After a brief backward glance at Fontenelle's Conversations on the Plurality of Worlds we will pick up the story at the end of the 19th century when Percival Lowell and others not only thought life on Mars had been discovered, but began a line of speculation that led to proposing radio as a way to communicate with it. Contact was finally "made" on Halloween in 1938 when the Mercury Theater Company broadcast the panic inducing "War of the Worlds" radio program. Not surprisingly, Germans were thought to be animating the Martian war ships. As this example suggests, the role of media as the network or channel through which we encounter "them" will figure prominently in the seminar. Thus, we will consider objects such as novels, radio broadcasts, films etc, but--as is characteristic of the field of cultural studies--we will approach these objects from an interdisciplinary vantage point that includes the concerns of sociology, philosophy, psychology/psychoanalysis, literary criticism and history. Even if the truth is "out there," the question remains: the truth about what?

CSCL 3472 Gay Men and Homophobia in American Culture

3 credit(s); Meets CLE req of Cultural Diversity Theme;

meets CLE req of Historical Perspective Core;

Instructor: Conley, John E

Description: Why are gay men socially marginalized yet symbolically central to the production and reproduction of our ideas about both society and of self in our present historical moment? In other words, what currently are ? and what have been ? the uses (and abuses) of gay men in American society? Whose interests are served in the maintenance and proliferation of forms of homophobia? In this course, we will pose some tough questions to the world in which we live ? and, undoubtedly, to ourselves ? by way of an introductory study of gay male subjectivity, homoeroticism, queer life, HIV/AIDS, and homophobia in American culture.

Style: 40% Lecture, 30% Discussion, 30% Student Presentation.

CSCL 3771 Basic Concepts of Literary Study

3 credit(s); Meets CLE req of Literature Core;

Instructor: Singh, Julietta Christine

Description: When we hear the word "literature," most of us assume that we know what it means. The word seems to imply something inherently worthwhile, something full of culture, something that holds so-called universal truths about humankind. This course begins by illustrating that far from having a stable or universal identity, the concept of literature is created through--and highly motivated by--various social, historical, and political forces. We will begin this course then by looking at literature itself as a concept before we move on to examine

some of the basic concepts of its study. Many of these concepts will sound familiar, such as narrative, genre, author, text, reading, and interpretation. We will take these familiar terms and fundamentally rethink each of them. Other concepts, like the dialectic, intertextuality, and ideology may be less familiar, and we will acquaint ourselves with them in order to investigate their import in literary study. While we will read a number of essays throughout the course, we will also read a range of literary texts not only to see how these concepts operate within literature, but also to interpret literature through them. As we examine critical concepts and analyze literary texts, we will encounter a number of theoretical approaches to literature. By the end of this course, you will have a solid grasp of some of the fundamental concepts of literary study which will not only enable you to read literature very differently, but will also enable you to think more critically about how language works to shape our worlds. While the point of the course is to introduce you to practices of reading and ways of approaching literary texts, it will also provide you with an opportunity to emerge as more careful and thoughtful analysts in all aspects of life, academic and otherwise.

CSCS 3910 Topics in Cultural Studies and Comparative

Literature: On Human Nature

3 credit(s), max credits 24, 8 completions allowed;

Instructor: Sarles,Harvey B

Description: Human Nature: What is the human? What is "not-human," what differences (and similarities) between us and other species? How we think about and explore the human is likely the base and foundation of all of our being and ideas. "Man is the measure of all things" -- said Protagoras. Yet the nature of the human -- the "measurer" of all things -- remains unclear, more vague than we usually think. Our ways of depicting the human are many, but our ways of thinking about ourselves are "stuck" in realms of mostly ancient ideas. We fix our attention on very few forms of explanation for how we are and "should be." Rather than actually studying the human face and body, for example, we focus on ideas of how humans are presumed to be "unique": claimed to be our "mind" or "brain" and "language" and "thought" -- or our "souls" in religious contexts. Still, our bodies are thought to be similar -- of the same "stuff" -- as other species. Here, again, ancient ideas reign, and we may look but don't see, much of how we are. The fact that we are social-interactive creatures - bodies in the world with others' bodies - is just beginning to be noted: "Attachment Theory." We humans are deeply bonded with our m/others, for long periods in our early development. How we "emerge," have, or become "conscious selves" -- how (or if) we are moral -- remains puzzling. Last, but not least, there is much history and currency of "politics" -- all of which expands in this global moment of different peoples, cultures...and bodies. Are we certain of us "fixed" or pre-destined in how we are? Or are we all flexible and able to grow? Ideas: ancient, mostly from Plato and Aristotle, still reign. What ideas, why/how so powerful? How to see how we are, from outside and inside? With ideas flowing in from the entire world, do we rethink Human Nature? The course: Let's observe - others and ourselves with bodily practice, usually yoga. Infants-in attachment with m/others: the female and male body, gender. Explore our senses. Ask what are faces, how do they "work," how do they "become" us? We will explore the enormous complexity of the human body -- from the face, to hands, to the notion that we live effectively "out-of-balance," and are so very "clever" in our seemingly obvious being. Texts: "Woman" -- Natalie Angier (the mostly "absent" gender in Human Nature study) "The Blank Slate" -- Steven Pinker (a "critical" reading) Regular presence - as we engage in dialogue. Requirements: 2 Essays/Projects: Midsemester and Final
Style: 100% Discussion.
Grading: 80% reports/papers, 10% attendance, 10% class participation.

CSCS 3979 Issues in Cultural Pluralism

3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Cultural Diversity Theme;

Instructor: Sarles,Harvey B

Description: A debate between Aristotle and Thomas Jefferson frames this course: whether some of us are by our very nature

born to be slaves, as Aristotle claimed; or whether we are all born equal as Jefferson says in the Declaration of Independence. The course asks, then, about these claims about nature and about our nature, what is a person in law and in practice, and why we find ourselves in a plural world bouncing between Aristotle and Jefferson over issues of culture and race. Why there have been periodic flares of racism in America - about once per generation - is analyzed in an essay by Lipset: the recent "haves" vs. those who want to "make it" next in a fluid society. How have we justified war against natives, using Aristotle's arguments (yet again), as alternatives to altruism and brotherly love? Who am I, and who are you, and we and they? - asks a lovely essay called Passing, in which we begin to understand that we all move through the world more or less clearly seen and defined to be who we are; some of us very visible, others not; contexts, social reality. What happens when social inequality becomes law, as in the Nazi era, is elucidated as actual history in a tape to which we listen. The course is taught as a dialogue, a reading packet serves as the basis for the course. Two essays/projects are required.

Style: 60% Lecture, 40% Discussion.

Grading: 10% class participation, 90% other evaluation. Essays or Projects-to be discussed in class

Exam Format: NONE

CSCS 5301 Society, Ideology, and the Production of Art **3 credit(s); Credit will not be granted if credit has been received for: CSDS 5301;**

Instructor: Ganguly,Keya

Description: This is an upper-division course for advanced undergraduates and graduate students. Given the course's broad designation, we will attempt to sharpen our focus on the relationships between ideology, social norms, and aesthetic practice by taking a thematic approach to these relationships. The thematic with which we will concern ourselves is that of "visuality": its history, institutions, theories, and problems. Students will be expected to bring them a certain familiarity with cultural studies and social theory or to pick it up along the way (since an upper-division course cannot also serve as a primer on "theory" ;). Our collective project will be to examine, in a variety of primary and secondary source materials, the ways that visual issues define aspects of modernity, give them historical and ideological inflection, as well as constrain modes of thinking and practice. The final two weeks of the quarter will address a particular site of representation where the question of visuality has been of political and historical importance, that of the colonial encounter.

Style: 75% Lecture, 25% Discussion.

Grading: 20% mid exam, 40% final exam, 30% reports/papers, 10% class participation.

Exam Format: short answer, essay

CSCS 5331 Discourse of the Novel

3 credit(s);

Instructor: Tageldin,Shaden M

Description: The novel, argued Mikhail Bakhtin, is "the only developing genre," the only one "as yet uncompleted." Georg Lukacs similarly characterized the novel as "something in process of becoming." If both Bakhtin and Lukacs provocatively imagined the novel as an open future, they less productively fixed its "real" birth in the eighteenth century and its birthplace in Europe. Embedded not just in novels, then, but in the very idea of the novel is a potent ideology of history, often Eurocentric. Gamal al-Ghitani, for one, would issue the novel a different birth certificate. The Egyptian novelist maintains that the Arabic novel is in fact 1,600 years old--as old as the recorded history of Arabic literature. Indeed, the novel might be less "novel" than we think, old as the history of human literature: it turns up in ancient Greece (as even Bakhtin is forced to acknowledge), in eleventh-century Japan, and in eighteenth-century China. This course will explore the novel both as genre and as idea: as a story of origins--a type of fiction that tells us how a person, place, or time comes into being and becomes--and an origin story of modernity and progress (not just literary but also social, economic, and technological). Taking a broadly comparative worldview of the genre, we will try to imagine a more novel

history and definition of the novel. What makes a novel a "novel"? Why are so many cultures so eager to claim it? In what language do and "must" novels speak? What kinds of subjectivity do and "must" novels represent, and how? How does the novel relate the fictional to the real and to the historical? How is the rise of the novel linked to the rise of corporate capitalism, the nation-state, mass production, and mass literacy and reading publics--and must it always be predicated on these social facts? Is the novel as "democratic" a genre, linguistically and politically, as it is sometimes held to be? What is the novel's relationship to other genres (epic, lyric, other forms) and to other media (newspaper, photography, film)? Was Bakhtin right to say that the novel is a composite of all other literary genres--and kills off whatever it swallows? Are other genres really dead at the hands of the novel? Is the novel itself getting old? Will it ever die? Readings will be chosen from Heliodorus, Murasaki, The Arabian Nights, Defoe, Cao, Montesquieu, Balzac, Scott, Bronte, Dickens, Chatterjee, al-Muwaylihi, Anand, Ali, Camus, Yacine, Mahfouz, Aidoo, wa Thiong'o, Ramadan, and Rushdie, as well as a broad range of theoretical, critical, and literary-historical texts.

Style: 30% Lecture, 50% Discussion, 20% Student Presentation.

Grading: 60% reports/papers, 10% attendance, 20% in-class presentation, 10% class participation.

CSCL 5411 Avant-Garde Cinema

A-F only, 4 credit(s); prereq 1921 or ARTH 1921W or equiv;

Instructor: Bizri, Hisham M.

Description: In film and art in general ?avant-garde? is used to describe a work that breaks new ground in order to define a new way of seeing the world and thus of living in it. In this course we will study the history and theory of American avant-garde cinema from the classical to the post-war period. We will look at film prints because what makes an avant-garde film is the materiality of film itself, used partly as a way to demystify the filmic process but more importantly as a way to create radical thought and emotion through the impact of the projected film on the retina. The course will cover various avant-garde films, or what is sometimes called experimental, alternative, underground, absolute or abstract films from a variety of perspectives: What is specifically cinematic since many of these films are abstract and some did not even go through a camera? How do we "see" and what? Is seeing and believing the same thing? Do these films expand our understanding of what cinema is and thus our consciousness? What is the relationship between the old avant-garde (personal and exclusivist) and the new avant-garde (public and institutional)? How does avant-garde film get incorporated in what is called "independent" cinema as well as commercial cinema and thus the relationship that arises between the marginal/radical in artistic practice and the dominant? What are the ethical paradigms and implications of avant-garde cinema? Does iconoclasm mock traditional morality? What is the role of time and narrative in "flatness"? What is the formal or symbolic truth of this cinema? What is the value and purpose of such films? And last but not least, what is the relationship between avant-garde cinema and the American philosophic, poetic and musical traditions. Some of the filmmakers we will study are: Joseph Cornell, Peter Kubelka, Marie Menken, Stan Brakhage, Ian Hugo, Kenneth Anger, Gregory Markopoulos, Warren Sonbert, Hollis Frampton, and Ernie Gehr. If time permits, we will look at films by Christopher Maclaine, Jack Smith, Arthur Lipsett, and Andy Warhol.

Style: 30% Lecture, 30% Film/Video, 20% Discussion, 20% Student Presentation.

Grading: 40% reports/papers, 30% attendance, 30% in-class presentation.

CSCL 5910 Topics in Cultural Studies and Comparative

Literature: Work of Translation: Theory, Function, & Practice 3 credit(s), max credits 24, 8 completions allowed;

Instructor: Allen, Joseph R

Description: This course is a review of the issues surrounding translation, including theories of representation, ideological work, as well as actual practice. The course is structured around a series of readings and discussion of both historical and contemporary writing on translation; these readings and

discussions. While most of the readings center on the theory and particulars of literary translation, students will be encouraged to explore other manifestations of translation as a historical, cultural or aesthetic issue. Along with those interested in languages and literature, students in disciplines such as creative writing, performance, and the plastic arts are also welcomed. You should be native or near-native speaker of English, as well as an advanced speaker/reader of at least one other language, either classical or vernacular.

Curriculum and Instruction

145 Peik Hall

CI 1001 Introduction to the Elementary School

A-F only, 3 credit(s);

Instructor: Mogush, Patsy H

Description: Description: This course is intended to be a beginning course for undergraduate students considering a career in elementary education. Students examine various aspects of elementary schools and teaching, including school contexts and organization, standards, curriculum, assessment, policy, culture and diversity, contemporary students, and the role of the teacher. The course includes school visits. Class Time: 30% Lecture, 40% Discussion, 15% Laboratory. small group projects Work Load: 20 pages reading per week, 20 pages writing per term, 2 exams, 4 papers. small group presentations and projects Grade: 13% mid exam, 25% final exam, 32% reports/papers, 15% special projects, 15% class participation. Course includes group projects Exam Format: Multiple choice, short answer

CI 1001 Introduction to the Elementary School

A-F only, 3 credit(s);

Instructor: Byrn, Katherine Margaret

Description: Three modules focus on important aspects of contemporary urban elementary school teaching: the principal's role, the teacher's role, and the students. Central to each module are school-based visits, observations, and interviews.

CI 1001 Introduction to the Elementary School

A-F only, 3 credit(s);

Instructor: Lee-Nichols, Mary Elizabeth

Description: Student may contact the instructor or department for information.

CI 1903 Freshman Seminar: Citizenship and Public Ethics: Intentional Communities as Education for Life 3 credit(s), max credits 6; prereq Fr; Meets CLE req of Citizenship/Publ Ethics Theme;

Instructor: Englund, Lynn A.

Description: For thousands of years, humans have imagined a "better" life for themselves, their families, and society. For some, this gap between how life was and how they imagined it could be motivated them to organize communities according to their highest aims and ideals in an attempt to improve life for individuals and families involved in the community. Students in this class will research a variety of intentional communities (e.g., temporary communities such as Burning Man, eco-villages, communes, co-housing, spiritual/religious communities, utopian communities) to a) examine various social contexts that spurred the formation of the community, b) analyze how the organization of the community oriented formal and non-formal education and social learning of individuals and families who participated in the communities, and c) seek to understand what participants' experiences (positive and negative) were like. The course also asks students to search broadly and to critically reflect on whether the community had an educational effect beyond the immediate participants of the community and to explore in what ways the intention of the community has extended beyond the boundaries of the community. This course meets the University's designated theme of citizenship and public ethics.

Style: 10% Film/Video, 40% Discussion, 20% Small Group Activities, 20% Student Presentation, 10% Guest Speakers.

Grading: 30% reports/papers, 30% special projects, 40% reflection paper. In-class presentations are included in projects and reports/papers. Regular class participation is expected.

and institutional issues concerning art programs in primary and secondary schools; social and cultural structures of schooling, practical issues of teaching art.

CI 1903 Freshman Seminar: Citizenship and Public Ethics: Critical Issues and Controversies in Elementary Ed
3 credit(s), max credits 6; prereq Fr; Meets CLE req of Citizenship/Publ Ethics Theme;
Instructor: Byrn,Katherine Margaret
Description: Interdisciplinary seminar. Topics specified in Class Schedule.

CI 5069 Curriculum Innovations in Art Education
A-F only, 3 credit(s);
Instructor: Clover,Faith M.
Description: Study and analysis of innovations; evaluation of materials for teaching units and projects.

CI 3212 Practicum: Elementary Teaching
S-N only, 2 credit(s); prereq Concurrent registration is required (or allowed) in 5111, [elementary education foundations or early childhood foundations] major;
Instructor: Clevette EdD,Cathleen A.
Description: Field-based practicum. Students apply learning from their University courses to elementary school setting, connecting theory, research, and practice.

CI 5075 The Social and Historical Foundations of Art Education
A-F only, 1-3 credit(s), max credits 3, 1 completion allowed;
prereq Grad student;
Instructor: Brennan,Colleen Kelly
Description: Student may contact the instructor or department for information.

CI 3212 Practicum: Elementary Teaching
S-N only, 2 credit(s); prereq Concurrent registration is required (or allowed) in 5111, [elementary education foundations or early childhood foundations] major;
Instructor: Mason,Ann Mogush
Description: Field-based practicum. Students apply learning from their University courses to elementary school setting, connecting theory, research, and practice.

CI 5096 Art Education: Practicum
A-F only, 1-6 credit(s), max credits 6, 6 completions allowed;
Instructor: STAFF
Description: Issues of art instruction, including teaching methods and evaluation, philosophical frameworks of pedagogy and institutional issues concerning art programs in primary and secondary schools. Practicum requiring students to work in a public school setting.

CI 3401 Diversity in Children's Literature
A-F only, 3 credit(s); prereq Jr or sr or instr consent ;
Instructor: Brendler,Beth
Description: Classic/contemporary books for children in all genres, created by authors/illustrators. Research in transactional theory. Cultural authenticity. Reading, discussion, group activities, interactive lectures, projects.

CI 5111 Introduction to Elementary School Teaching
A-F only, 3 credit(s); prereq Foundations of ed major or elem ed initial lic;
Instructor: Rogers,Carrie Ann Barnes
Description: Curriculum organization, instruction, management, assessment, professional decision making.

CI 3401 Diversity in Children's Literature
A-F only, 3 credit(s); prereq Jr or sr or instr consent ;
Instructor: Galda,Lee
Description: Classic/contemporary books for children in all genres, created by authors/illustrators. Research in transactional theory. Cultural authenticity. Reading, discussion, group activities, interactive lectures, projects.

CI 5111 Introduction to Elementary School Teaching
A-F only, 3 credit(s); prereq Foundations of ed major or elem ed initial lic;
Instructor: Byrn,Katherine Margaret
Description: Curriculum organization, instruction, management, assessment, professional decision making.

CI 3401 Diversity in Children's Literature
A-F only, 3 credit(s); prereq Jr or sr or instr consent ;
Instructor: Coffino,Kara Lee
Description: Classic/contemporary books for children in all genres, created by authors/illustrators. Research in transactional theory. Cultural authenticity. Reading, discussion, group activities, interactive lectures, projects.

CI 5137 Multicultural Gender-Fair Curriculum
A-F only, 3 credit(s);
Instructor: Mayo Jr,J B
Description: This is a course for educators interested in issues related to diversity in learning settings and the exploration of culture in educational contexts. It is designed so that through the process of reading, writing, discussion, and debate, we can explore those social, political, and educational issues that relate to the education of students in a culturally diverse world. As a graduate level course, it is not expected that the course will entail the transmission of knowledge from knowers to learners, but rather that through a process of reading, writing, reflection and discussion, we can explore both the process for development of a multicultural gender-fair curriculum, and the challenges and conflicts inherent in exploring that process.
Style: 20% Lecture, 5% Film/Video, 40% Discussion, 10% Small Group Activities, 20% Student Presentation, 5% Guest Speakers.
Grading: 45% reports/papers, 20% special projects, 25% reflection paper, 10% in-class presentation.

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: Delisle,Heather Ann
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: Hrenko,Kelly A
Description: Art concepts, skills, and processes appropriate for elementary school. Methods of art instruction. Children's production of/responses to art.

CI 5150 Curriculum Topics
3 credit(s), max credits 12, 12 completions allowed;
Instructor: Swiss,Thom
Description: Special topics, current trends in curriculum. Subject integration, curriculum contexts, development, implementation, evaluation.

CI 5065 Improving Art Programs in the Schools
A-F only, 3 credit(s); prereq Initial lic students majoring in art ed;
Instructor: Bequette,James W
Description: Issues of art instruction, including teaching methods and evaluation, philosophical frameworks of pedagogy,

CI 5155 Contemporary Approaches to Curriculum: Instruction and Assessment
A-F only, 3 credit(s); prereq Grad students only;
Instructor: Casey,Zachary Anders
Description: Student may contact the instructor or department for information.

CI 5177 Practical Research

A-F only, 3 credit(s); prereq CI MEd student, or CI or EdPA Teacher Leadership MEd student;

Instructor: STAFF

Description: Preparation for identifying a research and development topic, reviewing the existing knowledge on the topic, planning and carrying out a project, further investigating the topics, and writing a report on the project.

directed by advisor.

CI 5190 Directed Individual Study in Curriculum and Instruction 1-6 credit(s), max credits 12, 12 completions allowed; prereq Grad student, instr consent ;

Instructor: STAFF

Description: Directs students to individual studies that focus on producing and evaluating curriculum materials; literature review of issues and problems; and assessing curriculum processes.

CI 5181 Clinical Experience in Elementary School Teaching

S-N only, 2-8 credit(s), max credits 16, 3 completions allowed; prereq Foundations of education and elem ed initial licensure only;

Instructor: Carlson,Ann Ruhl

Description: Students spend full days in the elementary classroom gradually assuming responsibility for teaching the class. Students prepare a portfolio based on criteria given. One seminar per week.

CI 5325 Designing and Developing Online Distance Learning A-F only, 3 credit(s); prereq 5351 or 5362 recommended;

Instructor: Doering,Aaron H

Description: Students research, use, and evaluate technologies for distance learning and design their own learning environments.

CI 5181 Clinical Experience in Elementary School Teaching

S-N only, 2-8 credit(s), max credits 16, 3 completions allowed; prereq Foundations of education and elem ed initial licensure only;

Instructor: Clevette EdD,Cathleen A.

Description: Students spend full days in the elementary classroom gradually assuming responsibility for teaching the class. Students prepare a portfolio based on criteria given. One seminar per week.

CI 5330 Topics in Instructional Systems and Technology 1-3 credit(s), max credits 12, 12 completions allowed;

Instructor: Beach,Richard W

Description: This course is designed for middle, high school, and college writing instructors in all subject matter areas who are interested in using Web 2.0 digital writing tools to help students learn to generate, organize, revise, and edit their writing. This course is supported by use of a textbook co-authored by the instructor, Teaching Writing Using Blogs, Wikis, and Other Digital Tools (2009), as well as a wiki with extensive resources and links: <http://digitalwriting.pbwiki.com>. It is designed to help instructors learn to employ digital writing tools such as blogs/vlogs, wikis, digital mapping, digital poetry/storytelling, digital slideshows and scrapbooks, online discussions/role-play, podcasting, VoiceThread audio commentary, PowerPoint presentations, and e-portfolios to teach writing. And, it also includes learning to use features of involved in organizing and linking digital writing: RSS feeds, tagging, comments, hotlinks, image/video embedding, and text promotion. Students will acquire the use of these tools in the course through creating or contributing to forum discussions on the class Ning, creating blog/vlog posts, digital maps, Flickr slideshows, a podcast, and digital storytelling. They will also be providing comments to each other's blog posts and developing teaching activities that involve the use of digital writing tools. And, they will reflect on their work in the course based on criteria associated with effective use of digital writing tools to improve writing quality.

Style: 20% Lecture, 10% Film/Video, 20% Discussion, 10% Small Group Activities, 10% Student Presentation, 10% Demonstration, 10% Guest Speakers, 10% Web Based.

Grading: 40% reports/papers, 60% journal. Journal = blog posts

CI 5183 Applying Instructional Methods in the Elementary Classroom

S-N only, 1-2 credit(s), max credits 8, 4 completions allowed; prereq Foundations of ed major or elem ed initial licensure only;

Instructor: Fautsch-Patridge,Terri

Description: Supervised experience in elementary classrooms.

CI 5183 Applying Instructional Methods in the Elementary Classroom

S-N only, 1-2 credit(s), max credits 8, 4 completions allowed; prereq Foundations of ed major or elem ed initial licensure only;

Instructor: Jacobson,Mary J

Description: Supervised experience in elementary classrooms.

CI 5183 Applying Instructional Methods in the Elementary Classroom

S-N only, 1-2 credit(s), max credits 8, 4 completions allowed; prereq Foundations of ed major or elem ed initial licensure only;

Instructor: Fredericks,Amy

Description: Supervised experience in elementary classrooms.

CI 5183 Applying Instructional Methods in the Elementary Classroom

S-N only, 1-2 credit(s), max credits 8, 4 completions allowed; prereq Foundations of ed major or elem ed initial licensure only;

Instructor: Un,Silvy

Description: Supervised experience in elementary classrooms.

CI 5186 School-Related Projects

A-F only, 1-4 credit(s), max credits 4, 1 completion allowed; prereq MEd student;

Instructor: STAFF

Description: Research or evaluation project related to teaching, curriculum, or other aspect of schooling. Approved and supervised by faculty advisor.

CI 5331 Introduction to Learning Technologies 3 credit(s);

Instructor: Doering,Aaron H

Description: This course is designed to prepare you to become knowledgeable and comfortable in the field of learning technologies (LT). Upon completing this course you will understand the history of the LT field; understand what LT is along with the theoretical foundations of the field; be able to discuss the role of LT in education and the workplace; know and understand the major debates and articles of the LT field; and be able to write, communicate, and present your knowledge of the LT field. This is a great course to begin your learning technologies experience!

Style: 15% Lecture, 45% Discussion, 20% Small Group Activities, 20% Student Presentation.

CI 5351 Technology Tools for Educators

A-F only, 3 credit(s); prereq Basic knowledge of Macintosh operating system and a word processing program;

Instructor: STAFF

Description: Develop skills in using selected technology applications to support teaching and learning. Internet applications, presentation software, multimedia authoring tools, desktop publishing software, Web page creation. May also include a field-site project.

CI 5187 Practicum: Improvement of Teaching in Elementary or PreKindergarten Schools

S-N only, 2-3 credit(s), max credits 3, 1 completion allowed; prereq MEd student in elem or early childhood ed;

Instructor: STAFF

Description: Elementary school classroom teaching project designed to improve specific teaching skills. Approved and

CI 5362 Introduction to Educational Multimedia

3 credit(s); prereq Familiarity with basic computer operations;

Instructor: Miller, Charles Devaughn

Description: This course is the first in a sequence of four courses that examine the processes of designing and developing interactive learning media and online applications that are meaningful, easy to use, and aesthetically pleasing to learners. We will get our hands dirty with design by exploring an assortment of professional creativity suites in the context of three projects spanning these areas of expertise: graphic design (Adobe PhotoShop CS3, Adobe Illustrator CS3); video editing, compositing, and online optimization (Apple Final Cut Studio, Flash Video Encoder); and web design (Adobe DreamWeaver CSS, Adobe Flash CS3, and CSS design). This course will be similar to a design studio, intended for all levels of expertise from beginning designers with little to no experience in the above skill sets, to seasoned developers searching for innovative frameworks to ignite creativity in the design process.

Style: 15% Discussion, 5% Small Group Activities, 5% Demonstration, 70% Studio, 5% Guest Speakers.

CI 5363 Introduction to Multimedia Development
3 credit(s); prereq Competent computer user; 5362 recommended;

Instructor: Miller, Charles Devaughn

Description: In this course we will explore new media design from the perspective of an instructional designer. We will be designing with the Adobe Flash environment to explore the rich contexts of four authentic design problems, at the same time delving into the realms of raster and vector imaging, web video optimization, and usability analysis. Ultimately, we will focus our efforts on creating designs that are meaningful, functional, and aesthetically pleasing. We will also collaborate on investigating common design frameworks; however, you will modify these to meet and continually refine your own design perspective and style. We will follow a contemporary Role-Based framework for the design process intended to encourage innovation in the instructional design field; however, beyond that you will learn to become a better designer through discussion, collaboration, development, exploration, research, and simply...design. This course will be similar to a design studio, intended for all levels of experience from beginning designers with little to no familiarity with the Flash environment, to seasoned developers looking to ignite a fresh perspective on design.

Style: 15% Discussion, 5% Small Group Activities, 5% Demonstration, 70% Studio, 5% Guest Speakers.

CI 5401 Literature for the Elementary School
A-F only, 3 credit(s); prereq Children's lit course or instr consent ;

Instructor: Rapport, Rebecca T

Description: Evaluative survey of books for children. Research related to children's reading interests. Response to literature, instructional strategies.

CI 5404 Culturally Diverse Books for Children and Adolescents
A-F only, 3 credit(s); prereq MEd, MA, PhD student;

Instructor: Galda, Lee

Description: What is culturally diverse literature and where do we find it? How do we determine authenticity: Who speaks for what group? This course will explore the development of African-American, Asian-American, Latino/a, and Native American literature for children and adolescents, as well as literature that reflects other diversities such as class, gender, sexual orientation, and exceptionalities, as well as literature that is international in scope. In addition to reading and discussing articles and representative books, we will also consider how to use books to promote cross-cultural understanding. and transform existing curriculum. Trade books to be read include: Draper, Copper Sun; Fox, Slave Dancer; Rinaldi, My Heart is on the Ground; Erdrich, Birchbark House; Ryan, Esperanza Rising; Kadohata, Kira-Kira; Woodson, Locomotion; Johnson, First Part Last; Alexie, The Absolutely True Diary of a Part-Time Indian; Smith, Rain Is not my Indian Name; Soto, Baseball in April; Cofer, Call Me Maria; Yee, Millicent Min, Girl Genius; Na, A Step from Heaven; Whelan, Homeless Bird; Dowd, A Swift Pure Cry;

LaRochelle, Absolutely, Positively Not?.

CI 5405 Middle School Language Arts Methods
A-F only, 2 credit(s); prereq Elem ed licensure student;

Instructor: Kelly, Catherine Maureen

Description: Introduction to the unique needs of middle school students in the language arts classroom. Language arts content and pedagogical skills. Adolescent development/psychology. Field placement in a middle school language arts classroom.

CI 5410 Special Topics in the Teaching of Literacy
3 credit(s), max credits 12, 12 completions allowed;

Instructor: Lensmire, Timothy J.

Description: This course explores the politics of literacy and race in classrooms (with politics understood both as how power plays out and in relation to creating democratic forms of life in schools). Theoretical and historical resources are developed first. Bakhtin's writings on language?including his concepts of utterance, speech genre, and heteroglossia?help us explore the social life of language and literacy as they get used in different contexts by different people. Then, we take up two writers who characterize the racial situation in the US in different (but complementary) ways. Historian Matthew Jacobson helps us understand the historical fabrication, changeability, and contingencies of whiteness, with an eye to the power relations and social havoc it has generated; and the Reverend Thandeka, drawing on psychoanalytic theory and history, supports our examination of the racial identities created by our society and how these identities often undermine action that might improve our racial situation. With these beginnings, the course shifts to the close exploration of the workings of literacy and race in schools. We examine talk about race in educational settings and the larger educational community, and find that while it is often muted (as in Mica Pollock's ethnographic study), it also always has the potential of exploding into loud controversy (as in the debate over Ebonics, chronicled by Theresa Perry and Lisa Delpit). And we examine the work and lives of teachers and students in schools, with the help of Bob Fecho's writing on his attempts to teach English in progressive ways and Daniel Yon's research with youth as they create identities in 'global times.' Finally, we complicate and revise our emerging ideas one last time, as we work with texts and films chosen by members of the class. As educators, scholars, and citizens, we have responsibilities to participate intelligently and critically in conversations about school and society?especially as school and society continue to privilege some at the expense of others. The main goal and method of this course is to bring our own ideas about education, race, and literacy into dialogue with the ideas of others?other members of the class, as well as various researchers and writers. In this process, we will revise and better articulate our images of and commitments to a worthy education for all of our children and fellow citizens.

CI 5415 Literacy Development in the Primary Grades
A-F only, 3 credit(s); prereq Elem teaching exper or instr consent ;

Instructor: Peterson, Debra Stevens

Description: Theory/practice of integrated teaching of reading, literature, writing, and language in primary classroom settings. Uses national/state language arts standards and assessment protocols to examine primary literacy curricula.

CI 5415 Literacy Development in the Primary Grades
A-F only, 3 credit(s); prereq Elem teaching exper or instr consent ;

Instructor: Mahowald, Megan Catherine

Description: Theory/practice of integrated teaching of reading, literature, writing, and language in primary classroom settings. Uses national/state language arts standards and assessment protocols to examine primary literacy curricula.

CI 5425 Reading Instruction in the Elementary Grades
A-F only, 3 credit(s); prereq [Elementary or early childhood] licensure student;

Instructor: Jacobson, Mary J

Description: Curricular/methodological issues in teaching of

reading. Reading/orthographic processes, strategy instruction for word recognition/comprehension, authentic assessment strategies, and teaching diverse students.

CI 5425 Reading Instruction in the Elementary Grades
A-F only, 3 credit(s); prereq [Elementary or early childhood] licensure student;

Instructor: Kelly, Catherine Maureen

Description: Curricular/methodological issues in teaching of reading. Reading/orthographic processes, strategy instruction for word recognition/comprehension, authentic assessment strategies, and teaching diverse students.

CI 5426 Language Arts Instruction in the Elementary Grades
A-F only, 3 credit(s); prereq Elementary or early childhood licensure student;

Instructor: Peterson, Debra Stevens

Description: Curricular/methodological issues of language arts. Oral language development, response to literature, writing processes, authentic assessment strategies. Teaching diverse students.

CI 5426 Language Arts Instruction in the Elementary Grades
A-F only, 3 credit(s); prereq Elementary or early childhood licensure student;

Instructor: Jacobson, Mary J

Description: Student may contact the instructor or department for information.

CI 5431 Introduction to Instructional Leadership in K-12 Reading

A-F only, 3 credit(s); prereq Minnesota license valid for classroom teaching in pre-kindergarten, [adult basic education or grades kindergarten through 6 or 1 through 6 or 5 through 8 or 9 through 12 or kindergarten through 12];

Instructor: Jacobson, Mary J

Description: K-12 curriculum in reading, major theories/research that motivate curriculum. Major instructional principles, alignments needed, resources available.

CI 5432 Instructional Leadership in Reading in Kindergarten and the Elementary Grades

A-F only, 3 credit(s); prereq 5431;

Instructor: Peterson, Debra Stevens

Description: Research-based reading instruction for elementary grades. How to help other teachers improve practice. Characteristics of effective schools within context of improving students. reading achievement.

CI 5435 Instructional Leadership in Preventing Reading Difficulties

A-F only, 3 credit(s); prereq 5434;

Instructor: Helman, Lori A

Description: Research-based reading interventions for struggling readers. How to help other teachers improve their practice. Theory/research behind preventing reading difficulties. Principles/techniques for assessing reading difficulties and students progress.

Style: 30% Lecture, 30% Discussion, 15% Small Group Activities, 15% Demonstration, 10% Web Based.

Grading: 15% final exam, 10% reports/papers, 75% special projects. Tutoring of a struggling reader required.

CI 5442 Literature for Adolescents

A-F only, 3 credit(s);

Instructor: Tierney, Jessica Dockter

Description: Characteristics of literature written for adolescents; rationale for using adolescent literature; adolescents' reading interests and attitudes; analysis of quality and appeal; individualized reading programs; methods of promoting reading; multicultural literature; developing teaching activities.

CI 5451 Teaching Reading in Middle and Secondary Grades

A-F only, 3 credit(s);

Instructor: Biggs, Brad

Description: Methods of accommodating to students' abilities

and facilitating reading in regular content classes.

CI 5452 Reading in the Content Areas for Initial Licensure Candidates

A-F only, 1 credit(s); prereq Enrolled in Initial Licensure Program, concurrent enrollment in licensure area methods course(s), Internet access, basic understanding of [computer use, Web browsers, e-mail, word-processing software];

Instructor: Biggs, Brad

Description: Web-based course for content disciplines whose primary responsibility is to foster students' reading related to learning from text.

CI 5452 Reading in the Content Areas for Initial Licensure Candidates

A-F only, 1 credit(s); prereq Enrolled in Initial Licensure Program, concurrent enrollment in licensure area methods course(s), Internet access, basic understanding of [computer use, Web browsers, e-mail, word-processing software];

Instructor: Moyer, Jessica E

Description: Web-based course for content disciplines whose primary responsibility is to foster students' reading related to learning from text.

CI 5472 Teaching Film, Television, and Media Studies

A-F only, 3 credit(s);

Instructor: Beach, Richard W

Description: Methods of teaching film, video, and media studies at the secondary and college level, methods for eliciting critical responses; analysis of film/video techniques; analysis of cultural representations and genre characteristics; connecting and comparing film/video and literature; studying documentary and television news; developing media studies units.

Style: 15% Lecture, 50% Discussion, 15% Small Group Activities, 10% Guest Speakers, 10% Web Based.

Grading: 50% reports/papers, 50% other evaluation. blog entries

CI 5475 Teaching Digital Writing: Blogs, Wikis, Online Talk, Podcasting, and E-Portfolios to Teach Writing

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: CI 5347;

Instructor: Doerr, Candance Marie

Description: Student may contact the instructor or department for information.

CI 5475 Teaching Digital Writing: Blogs, Wikis, Online Talk, Podcasting, and E-Portfolios to Teach Writing

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: CI 5347;

Instructor: Beach, Richard W

Description: This course is designed for middle, high school, and college writing instructors in all subject matter areas who are interested in using Web 2.0 digital writing tools to help students learn to generate, organize, revise, and edit their writing. This course is supported by use of a textbook co-authored by the instructor, Teaching Writing Using Blogs, Wikis, and Other Digital Tools (2009), as well as a wiki with extensive resources and links: <http://digitalwriting.pbwiki.com>. It is designed to help instructors learn to employ digital writing tools such as blogs/vlogs, wikis, digital mapping, digital poetry/storytelling, digital slideshows and scrapbooks, online discussions/role-play, podcasting, VoiceThread audio commentary, PowerPoint presentations, and e-portfolios to teach writing. And, it also includes learning to use features of involved in organizing and linking digital writing: RSS feeds, tagging, comments, hotlinks, image/video embedding, and text promotion. Students will acquire the use of these tools in the course through creating or contributing to forum discussions on the class Ning, creating blog/vlog posts, digital maps, Flickr slideshows, a podcast, and digital storytelling. They will also be providing comments to each other's blog posts and developing teaching activities that involve the use of digital writing tools. And, they will reflect on their work in the course based on criteria associated with effective use of

digital writing tools to improve writing quality.

Style: 20% Lecture, 10% Film/Video, 20% Discussion, 10%

Small Group Activities, 10% Student Presentation, 10%

Demonstration, 10% Guest Speakers, 10% Web Based.

Grading: 40% reports/papers, 60% journal. journal will consist of blog posts

CI 5496 Directed Experiences in Teaching English

S-N only, 8 credit(s); prereq MEd/initial licensure students in English ed only;

Instructor: STAFF

Description: Student teaching/clinical experience for English post-baccalaureate students only.

CI 5501 Teaching Science and Health in the Elementary School

A-F only, 2 credit(s); prereq Elem ed initial licensure only;

Instructor: Upadhyay,Bhaskar

Description: Methods and materials for teaching science and health at the elementary school level.

CI 5504 Elementary School Science: Materials and Resources

3 credit(s); prereq Elem tchg exper or instr consent ;

Instructor: Johnson,Roger T

Description: Student may contact the instructor or department for information.

CI 5531 Teaching Middle School Science

A-F only, 4 credit(s); prereq initial licensure student in science ed;

Instructor: Finley,Fred N

Description: Student may contact the instructor or department for information.

CI 5536 Equity, Policy, and Assessment in Science Education

A-F only, 3 credit(s); prereq MEd or grad student or instr consent ;

Instructor: Upadhyay,Bhaskar

Description: Nature of equity, diversity, and policy matters that influence schools/teachers involved in science teaching and scientific literacy. Classroom presentations, discussions, readings in current research.

CI 5537 Principles of Environmental Education

A-F only, 3 credit(s); prereq Undergrad in NRES or M.Ed. or grad student in education or instr consent ;

Instructor: Finley,Fred N

Description: Critical review of Environmental Education, its history, theories, curricula, teaching methods, and assessment practices. Development of an exemplary unit plan for teaching environmental studies.

CI 5539 Improving Secondary Science Instruction: Surviving the First Two Years

A-F only, 3 credit(s); prereq MEd science education student, in first three years of teaching;

Instructor: Roehrig,Gillian Heather

Description: Students reflect on their instruction and student learning during first years of teaching. Monthly meetings, observations, online discussion. Classroom management, planning, inquiry-based teaching, assessment, equity in the classroom.

CI 5540 Special Topics: Science Education

1-8 credit(s), max credits 12, 12 completions allowed;

Instructor: Flynn,Leslie

Description: Detailed examination and practice of the teaching of one area of science (e.g. geology, health, physical science) or one method of instruction (e.g. laboratories, demonstrations, Internet, simulations).

CI 5596 Clinical Experience in Middle School Science

A-F only, 4 credit(s); prereq initial licensure in science ed;

Instructor: Billington,Barbara Lynne

Description: Student may contact the instructor or department for information.

CI 5631 Second Language Curriculum Development and Assessment

A-F only, 3 credit(s); prereq SLC initial licensure only;

Instructor: Ranney,Susan Elaine

Description: Developing skills for selecting, organizing, providing, and assessing effective second language learning opportunities through study, practice, and reflection.

CI 5632 Communication and Comprehension in Second Language Classrooms

A-F only, 3 credit(s); prereq SLC initial licensure only;

Instructor: King PhD,Kendall Amy

Description: Comprehension and communication processes in a second language focus on listening, speaking, reading and writing; techniques for initial to advanced literacy instruction; fundamental principles of effective second language instruction; the relationship of culture to proficiency in the four modalities; traditional and alternative approaches to assessing language proficiency; use of technology to enhance instruction.

CI 5644 Working with Linguistically and Culturally Diverse Students in the Mainstream Classroom

1 credit(s);

Instructor: Stolpestad,Amy O'Connor

Description: Benefits and challenges of working with linguistically and culturally diverse students; instructional practices and strategies; issues related to language learning, cultural considerations, and integration of culturally and linguistically diverse learners in the classroom.

CI 5644 Working with Linguistically and Culturally Diverse Students in the Mainstream Classroom

1 credit(s);

Instructor: Aleixo,Marina Bandeira

Description: Student may contact the instructor or department for information.

CI 5646 Understanding and Teaching English Grammar

3 credit(s); prereq Ling 5001 or instr consent;

Instructor: Ranney,Susan Elaine

Description: English syntax from pedagogical perspective. Grammatical structures that challenge ESL learners. Analyzing learner errors. Issues/activities related to teaching grammar in ESL contexts.

CI 5647 Teaching Middle and Secondary Immigrant and Refugee Students With Limited Formal Schooling

3 credit(s);

Instructor: Bigelow,Martha

Description: Academic/social/political factors that affect students? success in school. Strategies for teaching. Programmatic choices.

CI 5651 Foundations of Second Languages and Cultures Education

A-F only, 3 credit(s);

Instructor: Walker,Constance L

Description: Historical overview of second language teaching and learning in the U.S. Exploration of second language instructional settings across multiple contexts: elementary and secondary options for foreign language, bilingual education, immersion language programs, and English as a second language programs. Theoretical frameworks for language instruction are tied to practice.

CI 5656 Reading and Writing in a Second Language

A-F only, 3 credit(s);

Instructor: Bigelow,Martha

Description: Reading comprehension and composing processes in a second language; relationship between first and second language comprehension and composing processes; relationship between reading and writing; relationship of culture to reading comprehension and writing; politics of literacy; assessment of second language reading comprehension and writing proficiency; using technology to enhance literacy instruction.

CI 5693 Directed Study in Second Languages and Cultures

1-4 credit(s), max credits 4, 1 completion allowed; prereq

Instr consent;**Instructor:** STAFF**Description:** Individual or group work on curricular, instructional, or assessment problems.

experience. The fall practicum (5 credits) and the spring placement (7 credits) use the same course designation, and neither counts toward the M.Ed.

Style: 100% Laboratory.**Grading:** 100% laboratory evaluation.**CI 5696 Practicum: Teaching World Languages and Cultures in Elementary Schools**

2-6 credit(s), max credits 12, 4 completions allowed; prereq

5619, adviser approval; credits cannot be counted on a graduate degree program for endorsement candidates;

Instructor: STAFF**Description:** Teaching and learning experiences in second languages and cultures at the elementary school level. Requires students to work in a public school setting.**CI 5821 Teaching Mathematics in the Elementary School****A-F only, 2 credit(s); prereq Elementary ed or early childhood initial licensure;****Instructor:** STAFF**Description:** Principles of learning pertinent to the modern program of mathematics in elementary grades. Objectives, content, philosophy, instructional materials and methods of instruction and evaluation.**CI 5697 Practicum: ESL in the Elementary School**

2-6 credit(s), max credits 6, 1 completion allowed; prereq

Adviser approval;**Instructor:** STAFF**Description:** Teaching and learning experiences in an English as a second language setting at the elementary school level. Requires students to work in a public school setting.**CI 5900 Special Topics in Family, Youth, and Community:****Grief, Loss, Shattered Dreams and Family Education****1 credit(s), max credits 20, 20 completions allowed;****Instructor:** Bowman, Ted W**Description:** Families can face many challenges including grief and loss. It is important for professionals who work with families to be able to address these important issues. In this applied class, participants will explore: - A framework for understanding and clarifying losses - Steps which can be appropriately taken in the parent and family education settings - Alternative steps to take when referral is warranted.**CI 5698 Student Teaching in Second Languages and Cultures**

2-6 credit(s), max credits 14, 5 completions allowed; prereq

Adviser approval; credits cannot be counted on a graduate degree program;**Instructor:** STAFF**Description:** Student teaching in Second Languages and Cultures at the secondary level for teachers already licensed in another field. Requires students to work in a public school setting.**CI 5902 Family Education Perspectives****A-F only, 3 credit(s);****Instructor:** Englund, Lynn A.**Description:** Students in family education (and those who will have professional roles working with families) will examine and appreciate the multiple avenues through which family education has occurred across human history and cultures. Students seek out alternative perspectives of family education by reading historic in articles and documents to deduce underlying motivations and interests, cultural and historical contexts, philosophical orientations, assumptions, and values associated with family education. Students will also study the nature of practical problems encountered by families in their everyday functioning as families. They will consider what family education's perspective should be regarding the nature of these problems and discuss the implications and consequences related to the research and application of family education for programs, educators, and families, and society. Students will formulate and/or clarify their personal perspective of family education. Please contact the instructor (engl8813@umn.edu) if interested in the distance learning option.**Style:** 75% Discussion, 25% Small Group Activities. Distance learners 100% Web based.**Grading:** 90% reports/papers, 10% class participation. Weekly class attendance is required.**CI 5705 Middle School Social Studies Methods****A-F only, 2 credit(s); prereq Elem ed licensure student;****Instructor:** Simmons, Annette Marie-Miller**Description:** Introduction to the unique needs of middle school students in the social studies classroom. Social studies content and pedagogical skills. Adolescent development/psychology. Field placement in a middle school social studies classroom.**CI 5922 Family and Consumer Sciences Curriculum in Grades 5-12****A-F only, 3 credit(s); prereq ILP student credit will not be granted if credit received for: FE 5302;****Instructor:** STAFF**Description:** Examination, development, and implementation of family and consumer sciences curriculum in grades 5-12.**CI 5742 Advanced Methods of Teaching the Social Studies****A-F only, 3 credit(s); prereq Secondary social studies initial licensure student;****Instructor:** Levy, Sara Ann**Description:** Focus on developing a repertoire of instructional methods that support authentic pedagogy and assessment. Enhancing reading comprehension and writing skills in the social studies.**CI 5925 Family and Consumer Sciences Student Teaching II****2 credit(s); prereq 5924;****Instructor:** Lundell, Amy Jo**Description:** Part-time supervised teaching experience in family and consumer sciences programs, guided by on-campus seminars that emphasize reflective teaching practice and student learning in the context of middle and high schools.**CI 5743 The Social Sciences and the Social Studies****A-F only, 3 credit(s); prereq Secondary social studies initial licensure student;****Instructor:** Mayo Jr, J B**Description:** Development of instructional strategies and contexts for exploring the social sciences as disciplines at the secondary level; central concepts and generalizations; tools of inquiry; competing structures and theories; and the relative impact of multicultural and gender-fair perspectives on the nature of history and the social sciences.**CI 5932 Introduction to Parent Education****A-F only, 1 credit(s);****Instructor:** STAFF**Description:** Overview of the philosophy, history, and models of parent education; introduction to ethical and critically reflective professional practice.**CI 5782 Clinical Experiences in Teaching Social Studies****S-N only, 1-8 credit(s), max credits 7, 1 completion allowed; prereq MEd/initial licensure student;****Instructor:** Mayo Jr, J B**Description:** This course constitutes the student teaching

CI 5937 Parent-Child Interaction

A-F only, 3 credit(s); prereq credit will not be granted if credit received for: FE 5712;

Instructor: Cooke, Betty Louise

Description: Students will analyze and critique parent-child interaction theory and research, consider implications for parent-child relationships and parents' and children's development, and apply this course material to professional work with families. Course Objectives Students will: Analyze parent-child interaction theories and research for their significance in understanding parent-child relationships and parents' and children's development. Critique parent-child interaction theories and research for their relevance to, and implications for, working with families. Integrate parent-child interaction theories and research into professional practice. Deepen self-awareness through applying parent-child interaction theories to one's own situation. Course Overview This course combines research and practice to provide a comprehensive view of the skills and strategies parent educators will use as teachers. Students will continue to reflect and grow in their understanding of the professional role and competencies of a parent educator. Please view the short video introduction to this course at the Course URL listed below.

Grading: Online Discsn (4 /wk, 13 wks) 52 pts. Live Chats (4 /wk, 11 wks) 44 Learning Rfct (4 /wk, 7 wks) 28 Movie Analysis 14 Professional Practice 26 Case Anal Integration Paper 36 TOTAL=200

CI 5943 Parent Learning and Development: Implications for Parent Education

A-F only, 2 credit(s);

Instructor: Walker PhD, Susan K

Description: Students will analyze and critique parent-child interaction theory and research, consider implications for parent-child relationships and parents' and children's development, and apply this course material to professional work with families. Course Objectives Students will: Analyze parent-child interaction theories and research for their significance in understanding parent-child relationships and parents' and children's development. Critique parent-child interaction theories and research for their relevance to, and implications for, working with families. Integrate parent-child interaction theories and research into professional practice. Deepen self-awareness through applying parent-child interaction theories to one's own situation. Course Overview This course combines research and practice to provide a comprehensive view of the skills and strategies parent educators will use as teachers. Students will continue to reflect and grow in their understanding of the professional role and competencies of a parent educator. Please view the short video introduction to this course at the Course URL listed below.

Style: 100% Web Based.

Grading: Online Discsn (4 /wk, 13 wks) 52 pts. Live Chats (4 /wk, 11 wks) 44 Learning Rfct (4 /wk, 7 wks) 28 Movie Analysis 14 Professional Practice 26 Case Anal Integration Paper 36 TOTAL=200

CI 5944 Parent Education Curriculum

A-F only, 2 credit(s); prereq 5943 or instr consent ;

Instructor: Walker PhD, Susan K

Description: How parent learning/development, child development, and family systems theories influence curriculum approaches/materials in parent education. Student develop construct, critique, and select curriculum.

CI 5952 Everyday Lives of Youth

A-F only, 3 credit(s); prereq credit will not be granted if credit received for: WCFE 5411;

Instructor: Baizerman, Michael Leon

Description: Exploration of how youth as idea and as lived-reality are understood in scholarship, public discourse, and professional practice as a first step in building a critical practice of work with and/or on behalf of youth. This class is far less about the science of adolescent development than it is about the lived-experiences of being a kid and doing youth, the lived-body, lived-time, lived-space, lived-relationships, and lived-self of

youthhood. We together explore youth as representation, as population, and as individual, thus experiencing the everyday lives of youth in-the-world.

Style: 80% Discussion, 20% Small Group Activities.

Grading: 80% reports/papers, 20% class participation. Weekly class attendance is required.

CI 5956 Organizational Approaches to Youth Development

A-F only, 3 credit(s); prereq credit will not be granted if credit received for: WCFE 5413;

Instructor: Skuza PhD, Jennifer Ann

Description: Student may contact the instructor or department for information.

CI 5972 Education in the Community

3 credit(s);

Instructor: Stein, Jerome A

Description: What does it mean to put community at the heart of education and learning? Drawing on examples of education in the community from a wide range of perspectives including social settlements, indigenous communities, Talmudic scholarship, history, and philosophy, new ideas about education and community will be presented, and new approaches to educational practice will be explored.

CI 8131 Curriculum and Instruction Core: Critical Examination of Curriculum in Context

A-F only, 3 credit(s); prereq CI PhD or MA student or instr consent;

Instructor: Ngo, Bic

Description: Central concepts, ideas, and debates in professional field of curriculum. Curriculum in general education.

CI 8132 Curriculum and Instruction Core: Teaching Theory and Research

A-F only, 3 credit(s); prereq CI PhD or MA student or instr consent;

Instructor: Sato, Mistilina

Description: Overview of research on teaching: historical perspective, modern research/findings, implications for practice/research.

CI 8133 Research Methods in Curriculum and Instruction

A-F only, 3 credit(s); prereq CI PhD or MA student or instr consent;

Instructor: Upadhyay, Bhaskar

Description: Survey of educational research methods, comparison of underlying assumptions/procedures.

CI 8147 Critical Discourse Analysis in Educational Research

A-F only, 3 credit(s); prereq [MA or PhD] student;

Instructor: Lewis, Cynthia

Description: This course is designed for doctoral students who are interested in critical discourse analysis (CDA) as theory and method. CDA examines how social and power relations, identities, and knowledge are constructed through written, visual, and spoken texts in social settings such as schools, families, and communities. We will begin the course by addressing the theoretical and methodological traditions that inform current uses of CDA in educational research. The rest of the course will focus on learning several critical approaches to analyzing spoken, written, and visual texts. Students will have opportunities to apply CDA methods to research in specific disciplinary fields of education. Although the primary focus will be on CDA as a research method, the course also will address the theoretical underpinnings of CDA in critical discourse studies. The focus of this course is on data analysis rather than on other parts of the research process. Students who do not have spoken or written data samples to work with for analysis should talk to me to arrange to collect or borrow data for the course. The course includes a good deal of practice in CDA and addresses its usefulness and limitations in relation to other qualitative approaches to research. We will conduct the course as a seminar and methods workshop. Students will be responsible for leading discussions, participating in data analysis sessions, and responding to each other's work. Course Objectives - to

understand the theoretical and methodological traditions that inform current uses of CDA in educational research. - to identify appropriate uses of CDA in educational research as determined by research questions and purposes. - to learn several approaches to CDA that can be used for educational research. - to apply CDA approaches to research in education. - to understand the connection between CDA and critical discourse studies as a theoretical framework

Style: 10% Lecture, 50% Discussion, 40% Small Group Activities.

Grading: 55% reports/papers, 45% other evaluation.

CI 8149 Qualitative Research: Coding, Analysis, Interpretation, and Writing

A-F only, 3 credit(s); prereq [8133, 8148, grad student, completion of a qualitative research study] or instr consent; Instructor: Dillon,Deborah R.

Description: How to code/analyze field notes. Individual/group interviews, multimedia using NUDIST NVivo software. Students interpret analyzed material and complete an article length document that includes a review of related research/methodology.

CI 8150 Research Topics Curr & Instruc

3 credit(s), max credits 12, 12 completions allowed; prereq [M.A. or Ed.D or Ph.D.] student or instr consent ; Instructor: Swiss,Thom

Description: Special topics, current research trends in curriculum/instruction. Research review, subject integration, curriculum contexts, development, implementation, data collection, analysis, evaluation.

CI 8154 Culturally Relevant Pedagogy

A-F only, 3 credit(s);

Instructor: Ngo,Bic

Description: Research on relationship between home and school cultures. Education of students of color. Culture, including experiences/practices of students? homes. Cultural approaches for improving teaching, transforming society.

CI 8159 Culture and Teaching Colloquium

A-F only, 3 credit(s), max credits 6;

Instructor: Lensmire,Timothy J.

Description: Doctoral seminar. Interdisciplinary perspectives on theme central to cultural study of teaching. Theme varies year to year.

CI 8412 Research in Reading

3 credit(s), max credits 6; prereq [MA or PhD] student;

Instructor: O'Brien,David

Description: Theory of and research on writing process. Applications to developing writing curriculum/instruction.

CI 8570 Advanced Topics in Science Education

A-F only, 3 credit(s), max credits 6, 6 completions allowed; prereq CI grad student or instr consent ;

Instructor: Finley,Fred N

Description: Examination/critique of current research topics, methods, and issues.

CI 8595 Problems: Science Education

1-6 credit(s), max credits 12, 12 completions allowed; prereq

CI grad student or instr consent;

Instructor: Johnson,Roger T

Description: Independent research.

CI 8650 Seminar: Special Topics in Second Languages and Cultures Research: Language policy and education

3 credit(s), max credits 6, 6 completions allowed; prereq CI grad student or instr consent ;

Instructor: King PhD,Kendall Amy

Description: Worldwide developments --- including the far-reaching influence of colonial, regional and global languages; efforts to establish bi and multi-lingual education policies and programs; the stampede towards English and other world languages such as Chinese; the endangerment of language

communities; state, community, corporate and educational efforts to alter manage and develop linguistic resources; and critical developments in language rights and language testing (e.g., citizenship and school tests) --- have turned language policy and language education policy into burgeoning fields for research and activity. This course jointly analyzes language policy and the various dimensions of educational policy. The reason for this twin focus is twofold: decisions about which languages should be used or taught in school are among the most dominant language policy decisions; and language education issues can only be understood with close attention to social, ethnic, religious, political, cultural and economic contexts. This course explores language and education policy as it plays out not only at the national level but also in institution, schools, workplaces, families and other contexts. Enrolled and active students will gain a solid understanding of language policy theory, research methods, and key empirical findings. Overview of course topics: - Meeting 1: Intro to course topics and expectations; key resources - Meeting 2: Multilingualism and global languages and / Historical, critical, ecological perspectives on language planning and policy (LPP) - Meeting 3: Language ideologies / LPP definitions and typologies - Meeting 4: Research methodologies / LPP processes and frameworks - Meeting 5: Official languages and national identities / LPP policy goals: officialization, nationalization, standardization - Meeting 6: Minority languages and education / LPP cultivation goals: revival, maintenance, spread, shift - Meeting 7: Indigenous languages and local identities / LPP corpus goals: standardization, graphization, modernization, reform, purism - Meeting 8: Endangered languages and linguistic human rights / LPP and social change - Meeting 9: New approaches: Linguistic landscapes - Meeting 10: Language testing as language policy - Meeting 11: Case study: Quichua in the Ecuadorian Andes - Meeting 12: Student research: Case studies - Meeting 13: Student research: Case studies - Meeting 14: Student research: Case studie

CI 8742 Seminar: Research in Social Studies Education

A-F only, 3 credit(s); prereq CI grad student or instr consent ;

Instructor: Avery,Patricia Grant

Description: Critical review and analysis of seminal research studies; criteria for appraising research findings; educational implications.

CI 8902 Family, Youth, and Community in Social, Political, and Economic Context

A-F only, 3 credit(s);

Instructor: Gentzler,Yvonne

Description: Meanings of and relationships among family, youth, and community in social, political, and economic contexts across cultures/time. Realities/philosophies influencing these meanings/relationships. Implications/consequences for professional practice.

Dakota

19 Scott Hall

DAKOTA 1121 Beginning Dakota I

5 credit(s); Credit will not be granted if credit has been received for: DAKO 4121;

Instructor: Bendickson,Wayne Joseph

Description: Student may contact the instructor or department for information.

DAKOTA 3123 Intermediate Dakota I

5 credit(s); prereq 1122; Credit will not be granted if credit has been received for: DAKO 4123;

Instructor: Bendickson,Wayne Joseph

Description: Student may contact the instructor or department for information.

DAKOTA 3125 Introduction to Dakota Linguistics

3 credit(s); prereq 3124;

Instructor: McKay,Neil Troy

Description: Student may contact the instructor or department for information.

DAKOTA 4121 Beginning Dakota I

3 credit(s); prereq [1122, 1004] in another language or passing score on LPE or grad student; Credit will not be granted if credit has been received for: DAKO 1121;

Instructor: Bendickson,Wayne Joseph

Description: Student may contact the instructor or department for information.

DAKOTA 4123 Intermediate Dakota I

3 credit(s); prereq 1121, 3123, 5126; Credit will not be granted if credit has been received for: DAKO 3123;

Instructor: Bendickson,Wayne Joseph

Description: Student may contact the instructor or department for information.

DAKOTA 5126 Advanced Dakota Language I

A-F only, 3 credit(s), max credits 12, 4 completions allowed;

Instructor: McKay,Neil Troy

Description: Student may contact the instructor or department for information.

Dance

Barbara Barker Center for Dance

DNCE 1001 Modern Dance Technique 1

1 credit(s);

Instructor: STAFF

Description: This course is a basic introduction to modern dance technique. Emphasis will be placed on successful performance of the fundamental elements that comprise modern dance technique. This will include class warm-up, center floor sequences and combinations, and movement patterns that move across and through space. This course will also include basic elements of dance improvisation as well as fundamental anatomical understanding. Classes will be based on the exploration of the elements of time, space and energy while emphasizing alignment, flexibility, strength, clarity and efficiency of movement.

Style: Studio

DNCE 1010 Modern Dance Technique 3

2 credit(s), max credits 4; prereq dept consent , audition;

Instructor: STAFF

Description: This course is the third level of eight levels of modern dance technique offered in the Dance Program. Classwork is based on practical application of the principles of space, time and energy with specific emphasis on alignment, power from the pelvic center, rotation and turnout, muscular tonality, joint articulation, clarity of intent, musicality, stretch, strength and stamina. Class consists of in-place warm-ups, specific technical exercises and dance phrases applying the technique addressed.

DNCE 1101 Ballet Technique 1

1 credit(s);

Instructor: STAFF

Description: This class is the first of the two-semester sequence of fundamental ballet technique. Classwork is based on the practical application of the principles of classical ballet technique, including body alignment and placement, strength, flexibility, coordination and musicality. By the end of the semester students should be able to understand a basic level of ballet vocabulary and be able to execute it with ease and confidence.

DNCE 1101 Ballet Technique 1

1 credit(s);

Instructor: Anderson,Tina Nancy

Description: This class is the first of the two-semester sequence

of fundamental ballet technique. Classwork is based on the practical application of the principles of classical ballet technique, including body alignment and placement, strength, flexibility, coordination and musicality. By the end of the semester students should be able to understand a basic level of ballet vocabulary and be able to execute it with ease and confidence.

Style: Studio

DNCE 1110 Ballet Technique 3

2 credit(s), max credits 4; prereq dept consent , audition;

Instructor: STAFF

Description: This class is the first of the two-semester sequence of beginning ballet technique - level three in an eight-semester sequence of Ballet Technique classes offered in the Dance Program. Classwork is based on the practical application of the principles of classical ballet technique, including body alignment and placement, strength, flexibility, coordination and musicality. By the end of the semester students should be able to execute beginning level ballet vocabulary with a physical understanding of these elements.

DNCE 1201 Jazz Technique 1

1 credit(s);

Instructor: STAFF

Description: This is the first of an eight-semester sequence of jazz dance technique/style. Class work will focus on fundamental jazz vocabulary and movement. Emphasis will be on basic understanding of proper body placement, clear articulation and basic mechanics of jazz movement, and basic rhythm patterns. Improvisation will be introduced as a tool to gain a better understanding of one's movement potential.

Style: studio

DNCE 1201 Jazz Technique 1

1 credit(s);

Instructor: Grotting,Karla Kaye

Description: Student may contact the instructor or department for information.

DNCE 1210 Jazz Technique 3

1 credit(s), max credits 2; prereq dept consent; , audition;

Instructor: STAFF

Description: This is the third of an eight-semester sequence of jazz dance technique/style. This class will introduce vocabulary and develop technical skills using a variety of jazz dance styles while increasing flexibility, groundedness and strength. This will include more complex weight changes, rhythm patterns, changes of direction and balances. Dancers will increase their understanding of musicality, dynamics, style and improvisation and explore a basic understanding of the history of jazz music style.

DNCE 1301 Tap Technique 1

1 credit(s);

Instructor: STAFF

Description: This studio class will focus on the fundamentals of tap dance with an emphasis on musicality and rhythm. Students will learn basic footwork and combinations and beginning time steps. Students will also be introduced to exercises for tap dance improvisation.

Style: Studio

DNCE 1313 African Based Movement

1 credit(s);

Instructor: STAFF

Description: This course will focus on varied movement of the African Diaspora, primarily West Africa, but not limited to the West African region or the continent of Africa. Class will include traditional movement, but will also focus on movement inspired by Africa, the Caribbean, and the African Diaspora at large. Coursework includes in-class movement participation, one movement midterm, and one two-page paper.

DNCE 1315 Flamenco

1 credit(s);

Instructor: STAFF

Description: This course is an introduction to Spanish Flamenco dance technique. The class will cover the basic terminology and movement styles of Flamenco, focusing on arm movements and footwork, but will also cover basic choreography. One class period is devoted to viewing videos of traditional Flamenco dance.

DNCE 1323 Swing Dance

**1 credit(s);
Instructor:** STAFF

Description: This course will cover the traditional swing dances popular in the United States during the 1930s and through the early 1960s. Each week new movements and figures will be taught and previous dances will be reviewed. To increase the learning process, students will be expected to change partners throughout class.

DNCE 1331 Yoga

**1 credit(s);
Instructor:** STAFF

Description: This course will give a basic introduction to the theory and practice of Yoga. The course will introduce the student to standing postures, forward bends and twists, balancing and seated postures, inversions, back bends, and guided relaxation and meditation. Course objectives include proper alignment, proper weight placement, body awareness, relaxation, and breathing techniques. Assignments will include a midterm paper and a movement demonstration final.

DNCE 1349 Contact Improvisation

**1 credit(s);
Instructor:** STAFF

Description: This class will provide a safe, clear introduction to the dance form Contact Improvisation. Students will learn technical skills such as the rolling point of contact, supporting and being supported, falling and recovering, connecting with the center as a source and support for movement. Classes will include a warm up designed to connect the body in order to dance with a sense of ease and power. Students will learn the fundamental principles of contact improvisation through skill work and through the experience of improving with other people.

DNCE 1401 Introduction to Dance

**3 credit(s); Credit will not be granted if credit has been received for: CHIC 1401; Meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core;
Instructor:** STAFF

Description: Modern dance, ballet, and world dance, primarily in the 20th century. Dance forms, choreographers, and dance issues through lecture, discussion, and viewing of live and taped performance.

DNCE 1500 Topics in Dance

**1-3 credit(s), max credits 10, 10 completions allowed;
Instructor:** STAFF

Description: See instructor descriptions per section.

DNCE 1500 Topics in Dance: Introduction to Hip Hop

**1 credit(s), max credits 10, 10 completions allowed;
Instructor:** Sarge,Kenna Jean

Description: This course, taught by renowned dance educator and choreographer Kenna Sarge, will start with the roots of HipHop found in West African traditions of drum and dance. Students will then journey to the early HipHop of the mid-70's and do some loc'ing, popping and breakdance basics. The course will emphasize OLD SKOOL HIP HOP with popular dances and choreography in the New Jack Swing Era (1980's and 90's). Contemporary and industrial HipHop will be addressed, with students creating original HipHop choreography and gaining confidence to perform HipHop in social context (i.e. "up in the club!").

DNCE 1500 Topics in Dance: Contemporary Indian Dance 1

**1 credit(s), max credits 10, 10 completions allowed;
Instructor:** Chatterjea,Ananya
Description: Contact Dr. Ananya Chatterjea for details on this

course, ananya@umn.edu.

DNCE 1500 Topics in Dance: African Diasporic Movement 1

**1 credit(s), max credits 10, 10 completions allowed;
Instructor:** Brown,Patricia

Description: African Diasporic Movement Level 1 focuses on varied movement of the African Diaspora, primarily West African, but not limited to that region or continent. This is not a traditional specific class. We may focus on traditional dance at times, but also movement inspired by Africa, the Caribbean and of the African Diaspora at large. The goals of this course are to create a communal safe space, connect with inner energy and express it through movement, understand the connection between drum and dance, and strengthen the connection and relationships with the whole self.

DNCE 1500 Topics in Dance: African Diasporic Movement 3

**1 credit(s), max credits 10, 10 completions allowed;
Instructor:** Silva Dos Santos,Marciano

Description: African Diasporic Movement 3 is an exploration of Afro-Brazilian dance. Jumps and turns, floor work, and rhythmic sections will be used to work on flexibility, strength, and polycentric movement and build concentration and a spiritual focus. The course explores the movement of Orixá (Orisha) introduced outside of the sacred space of Candomblé. A harmonious relationship between the body and sound will allow us to note the constantly evolving dynamics in relationship to principles such as coordination, relaxation, breathing, and undulation.

DNCE 1601 Dance Improvisation

**A-F only, 1 credit(s); prereq Concurrent registration in a modern dance technique course, dept consent;
Instructor:** STAFF

Description: This course is the first part of a six-semester sequence in Dance Composition. Classwork consists of exploration of individual ways of moving via the improvisational process. Students will link this exploration to the fundamental elements of dance: time, space, and energy. Students will also examine metered time, musical phrasing, movement speed, shape, and quality. Focus will be placed on using various improvisational and choreographic structures to express a movement idea. Course objectives include exploring the creative process, discovering individual movement vocabulary, and experimenting with structural devices in dance.

DNCE 1626 Music for Dance

**3 credit(s); prereq dept consent ;
Instructor:** STAFF

Description: This course will examine the basics of music with continual reference to music/dance interactions. While striving to hear more and more when listening to music, students will also learn copious terminology to describe what they hear. Classwork will also include honing basic rhythm skills, working with notation, playing percussion and discussion of the ways music and dance can combine.

DNCE 3010 Modern Dance Technique 5

**2 credit(s), max credits 4; prereq dept consent , audition;
Instructor:** STAFF

Description: This course is the fifth level of eight levels of modern dance technique offered in the Dance Program. The purpose of the technique class is to allow the intermediate modern dance student to explore and discover him/herself as an articulate and expressive mover. Classwork continues to involve space, time and energy with specific emphasis on alignment, power, momentum, articulation, clarity of intent, musicality, strength, stretch, and stamina. Class consists of in-place warm-ups, technical exercises and dance phrases applying the technique addressed. Successful completion of previous level or departmental approval by audition required for registration
Style: Studio

DNCE 3110 Ballet Technique 5

**2 credit(s), max credits 4; prereq dept consent , audition;
Instructor:** STAFF

Description: This course is the fifth level of an eight-semester sequence 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, dynamic timings, and a command of ballet terminology. The class format will begin with barre, followed by a period of stretching. Turning and jumping will be re-introduced at the barre and subsequently transferred to the center. Centerwork will include all aspects of ballet technique including port de bras, adagio, turns, petite allegro and grade allegro. As the semester progresses, the combinations will become more complex. A constant correlation between barre and centerwork will be explored.

DNCE 3210 Jazz Technique 5

1 credit(s), max credits 2; prereq dept consent , audition;

Instructor: STAFF

Description: This is the fifth of an eight-semester sequence of jazz dance technique/style. Classwork will concentrate on the development of a clear understanding of the eclectic range of jazz dance and its various styles. Movement vocabulary will cover styles from the American vernacular to more contemporary styles of today. In addition to the established techniques from the previous levels, focus will be placed on off-center movements, floor work and a variety of turns and jumps. Emphasis will be on individual style, working on clarity of movement, and improvisation. Successful completion of previous level or departmental approval by audition required for registration.

Style: Studio

DNCE 3301 Tap Technique 3

1 credit(s); prereq 1302 or instr consent;

Instructor: STAFF

Description: This course is the third in a six-semester sequence of tap dance technique. This studio class will focus on intermediate skills of tap dance including pick-ups, pull-backs and wings. There will be a continuing emphasis on musicality and rhythm. The class will practice intermediate footwork and combinations, time steps, tap dance routines, and improvisation exercises.

DNCE 3337 Body Mind Centering

2 credit(s);

Instructor: STAFF

Description: This class provides an overview of Body-Mind Centering, a new approach to movement, mind and body developed over the past thirty years by Bonnie Bainbridge Cohen, O.T. Classwork includes improvisational movement explorations, hands-on re-patterning work and discussion designed to give direct experience of the way mind (desire, attention, and intention) is expressed through the various body systems. These systems are the skeletal, organ, muscle, fluid, nervous, and endocrine. In addition, students will study developmental movement, the baby movements that underlie our more complex adult movement. Imagery, touch, and anatomical information will be used as tools to help students access a range of inner sensations and movement experiences. Emphasis will be on the acknowledgement of each individual's unique experience of the body, as well as on the experiences we share as human beings. This class is experiential and includes movement, touch, lecture and class discussion. Students can expect to spend two to three hours per week in outside reading and keeping a journal. There is one quiz and one take home exam.

DNCE 3401W Dance History 1

3 credit(s); prereq Dance major; Meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive;

Instructor: STAFF

Description: Dance History 1 & 2 are basic survey courses that study the development of dance with a primary focus on the West. Beginning with examining notions of 'historiography' and what it means to bring the 'dancing body' within the norms generated by textually and linguistically based disciplines such as history, Dance History 1 goes on to study the different ways that dance seems to have evolved in ancient civilizations such as

Egypt, India, and Greece. The first semester of the course then works through the development of dance through church and court in Europe, with occasional perspectives from other cultures, and ends with a focus on the beginnings of ballet in the French court of Louis the XIV.

DNCE 3411 Dance and Popular Culture: Choreographing Race, Class, and Gender

3 credit(s); prereq Jr or sr;

Instructor: STAFF

Description: This course addresses the ways in which race, class, gender become aestheticized and put into motion in/as popular culture. We will interpret sites of movement in popular culture broadly, allowing us to consider bodies on stages, screens, and through social practices, for example: staged performances of popular dance, motion picture versions of ballet or karate, animations of dancing penguins, and henna tattooing practices at parties. We will begin this course with an analysis of "dance," "popular," and "culture." Through choreographic analysis of moving bodies, we will examine how the term "popular" affects understandings of culture and how culture can be conceptualized as action. We will also learn beginning techniques of baile popular, Latin American popular dance and prepare a short choreography to perform at the campus Dia de los Muertos Procession on Friday, Oct. 30, at approx. 11:30 am.

DNCE 3487W Dance and Citizenship: Land, Migration, and Diaspora

3 credit(s); Meets CLE req of Cultural Diversity Theme;

meets CLE req of Writing Intensive;

Instructor: STAFF

Description: This course is a study of dance and performance as practiced and transformed by Native Americans and minority groups in the United States, marked as the "ethnic body". Emphasis is on migration as a global phenomenon, particularly pertaining to land disputes, labor distribution, political asylum and dislocation. The course also strives to understand the nature of so-called "ethnic practices" in the context of cultural exchange and multiculturalism within United States. The course addresses how the socio-historical perspective of the dance, as practiced, developed and performed in the United States context, exercise the understanding of political identity and citizenship.

DNCE 3602 Dance Composition 2

3 credit(s); prereq 3601, dept consent , concurrent regis in a modern dance technique course;

Instructor: STAFF

Description: This course is the third part of a six-semester sequence in Dance Composition. Classwork consists of learning tools to create dances that express a personal vision, have developed integrity of form and structure and show a pronounced awareness of one's own individual movement vocabulary. Students will continue to broaden their kinesthetic understanding of the nature of movement improvisation and its relationship to choreographic structure. An understanding and appreciation of the creative process and its application to one's self and other art forms will also be discussed and implemented through assignments in movement and writing.

DNCE 3621 Dance Production I

A-F only, 2 credit(s); prereq Dance major, dept consent ;

Instructor: STAFF

Description: In this course students will study the technical and administrative aspects of dance production. This includes lighting, costumes, sound, marketing, stage management, fundraising and publicity. Emphasis will be placed on learning practical project management and personal management skills.

DNCE 4443 Theorizing Dancing Bodies

3 credit(s); prereq 3402, dept consent ; Credit will not be granted if credit has been received for: DNCE 5443;

Instructor: STAFF

Description: Theorizing Dancing Bodies is a discourse-based course with the intention of developing a theoretical base for the newly emerging discipline of Dance Studies and within that, a strong focus on "reading" dance. Working with the premise that

Dance Studies, like Performance Studies, is fundamentally different than most other artistic disciplines, in that it has dancing bodies at its center, this course works through various aesthetic and philosophical perspectives and the lens of intersecting race, gender, class, and sexuality, to arrive at a complex consciousness about the impact dancing images can have on the socio-cultural scene.

Grading: 30% reports/papers, 35% in-class presentation, 35% class participation.

Exam Format: Essay

DNCE 4602 Dance Composition 4

3 credit(s); prereq 4601, Concurrent registration is required (or allowed) in modern dance technique course, dept consent ;

Instructor: STAFF

Description: This course is the fifth of a six-semester sequence in Dance Composition. Class work will consist of exploration and structuring of dances for groups. Course Objectives include: developing and understanding and appreciation for the craft of group choreography, exploring the creative process, discovering movement vocabulary, and acquiring skills of compositional structures for groups.

DNCE 4901 Senior Seminar

S-N only, 2 credit(s); prereq Sr, [Dnce or Th major]; Credit will not be granted if credit has been received for: TH 4901;

Instructor: STAFF

Description: Development of senior project, alone or in groups, under guidance of faculty members.

DNCE 5010 Modern Dance Technique 7

2 credit(s), max credits 4; prereq dept consent , audition;

Instructor: STAFF

Description: This course is the seventh level of eight levels in modern dance technique. This course will offer a variety of modern dance techniques and styles from various instructors and guest artists. This course is intended for the advanced dance major.

DNCE 5110 Ballet Technique 7

1 credit(s), max credits 2; prereq dept consent , audition;

Instructor: STAFF

Description: This course is the seventh in an eight-semester sequence of ballet technique. This advanced level ballet class will emphasize and further develop the following skills: clarity of arms and head positions, a strong stance, stability and balance, coordination of the joining of steps, use of feet in jumps, the ability to reverse and remember movement combinations.

DNCE 5443 Theorizing Dancing Bodies

3 credit(s); prereq instr consent ; Credit will not be granted if credit has been received for: DNCE 4443;

Instructor: Chatterjea,Ananya

Description: Theorizing Dancing Bodies is a discourse-based course with the intention of developing a theoretical base for the newly emerging discipline of Dance Studies and within that, a strong focus on 'reading' dance. Working with the premise that Dance Studies, like Performance Studies, is fundamentally different than most other artistic disciplines, in that it has dancing bodies at its center, this course works through various aesthetic and philosophical perspectives and the lens of intersecting race, gender, class, and sexuality, to arrive at a complex consciousness about the impact dancing images can have on the socio-cultural scene.

DNCE 5500 Topics in Dance

1-3 credit(s), max credits 10, 10 completions allowed;

Instructor: STAFF

Description: See instructor descriptions per section.

DNCE 5500 Topics in Dance: Modern Dance Technique 9

1 credit(s), max credits 10, 10 completions allowed;

Instructor: Flink,Carl Lindsay

Description: Modern Dance Technique 9 and 10 are pre-professional preparation courses that prepares advanced

modern dance students in the unique and demanding rigors and challenges of a full-time professional performance career in modern and contemporary dance through (a) highly demanding and rigorous technique class and (2) conversation and feedback about effective work approaches to achieving the necessary focus and discipline for this extremely competitive and refined career path in the field of dance. Students work directly with faculty members Joanie Smith, Toni Pierce Sands and Carl Flink, each having sustained and nationally recognized professional careers as performers with major United States modern dance companies (Alwin Nikolai/Murray Louis, Alvin Ailey and Jose Limon respectively). Registration for this course is limited to current dance major students who will receive placement during auditions the first week of fall semester classes (in conjunction with Modern 5/7 placement).

DNCE 5700 Performance

1 credit(s), max credits 4, 4 completions allowed; prereq concurrent enrollment in technique course, dept consent;

Instructor: STAFF

Description: This course is for students in University Dance Theatre.

DNCE 5858 Teaching Dance

4 credit(s); prereq 1020, dept consent , instr consent ;

Instructor: STAFF

Description: This course is an introduction to pedagogy and dance teaching methods. Students will discuss various theories of teaching, the responsibilities when teaching and the craft or art of teaching dance. The class will examine potential students by special interest groups. Time will be spent on small teaching projects dealing with one specific idea, as well as developing individual lesson plans and a series of classes. The students in the class will teach each other as well as develop classes for outside groups. The class will discuss and implement the fulfillment of the goal to coordinate the creative and the technical development of our potential students.

DNCE 5993 Directed Studies

1-4 credit(s), max credits 10, 10 completions allowed; prereq instr consent , dept consent , college consent ;

Instructor: STAFF

Description: Student may contact the instructor or department for information.

DNCE 5993 Directed Studies

1-4 credit(s), max credits 10, 10 completions allowed; prereq instr consent , dept consent , college consent ;

Instructor: Chatterjea,Ananya

Description: Student may contact the instructor or department for information.

Danish

205 Folwell Hall

DAN 1001 Beginning Danish

5 credit(s); Credit will not be granted if credit has been received for: DAN 4001;

Instructor: STAFF

Description: The goal of the first year of language instruction is to develop a basic communicative proficiency in Danish. From day one you will work on understanding spoken and written Danish and speak and write Danish yourself, learning to handle linguistically concrete, simple everyday transactions. Most of the class time is taken up by interactive communicative activities in pairs and small groups. Small class sizes allow you to improve your listening, speaking, writing and reading skills in everyday class session. Learning about life and culture in Denmark is an integral part of the course. We use video material and work in the multi-media lab.

DAN 4001 Beginning Danish

2 credit(s); prereq 1004 in another language or passing

score on LPE or grad student; Credit will not be granted if credit has been received for: DAN 1001;

Instructor: STAFF

Description: The goal of the first year of language instruction is to develop a basic communicative proficiency in Danish. From day one you will work on understanding spoken and written Danish and speak and write Danish yourself, learning to handle linguistically concrete, simple everyday transactions. Most of the class time is taken up by interactive communicative activities in pairs and small groups. Small class sizes allow you to improve your listening, speaking, writing and reading skills in everyday class session. Learning about life and culture in Denmark is an integral part of the course. We use video material and work in the multi-media lab.

Dental Hygiene

9-406 Malcolm Moos Health Sciences Tower

DH 2111 Dental Anatomy

A-F only, 2 credit(s); prereq DH student;

Instructor: Anderson, Jeanne Marie

Description: All deciduous and permanent teeth, including tooth form, function, and relationship to oral health; calcification, eruption, and exfoliation patterns; ideal static occlusion, dental terminology, and tooth annotation systems. Lab includes identification and annotation of teeth and restoration, in wax, of portions of a typodont tooth. Includes content necessary for the practice of dental hygiene. Teaching methods include lecture, large and small group discussion, and laboratory assignments in drawing, carving, and annotating teeth. Textbooks: Woelfel and Scheid, "Dental Anatomy, Its Relevance to Dentistry." Williams and Wilkins Publisher; Dental Anatomy Study Guide. Course only open to students enrolled in the Program in Dental Hygiene.

Style: 40% Lecture, 10% Discussion, 50% Laboratory.

Exam Format: multiple choice

DH 2121 The Dental Hygiene Care Process Clinical Application I

A-F only, 5 credit(s); prereq DH student;

Instructor: Osborn, Joy B

Description:

DH 2132 Head and Neck Anatomy

A-F only, 1 credit(s); prereq DH student;

Instructor: Blue, Christine M

Description: Anatomical structures of the head and neck as they relate to the practice of dental hygiene. Includes content necessary for the practice of dental hygiene. Teaching methods include lecture, CD-ROM, discussion. Textbooks: M. Fehrengach and S. Herring: "Illustrated Anatomy of the Head and Neck." W.B. Saunders. Course only open to students enrolled in the Program in Dental Hygiene.

Style: CD-ROM

Exam Format: Multiple choice

DH 2132 Head and Neck Anatomy

A-F only, 1 credit(s); prereq DH student;

Instructor: Eliason, Sandra Jean

Description: Anatomical structures of the head and neck as they relate to the practice of dental hygiene. Includes content necessary for the practice of dental hygiene. Teaching methods include lecture, CD-ROM, discussion. Textbooks: M. Fehrengach and S. Herring: "Illustrated Anatomy of the Head and Neck." W.B. Saunders. Course only open to students enrolled in the Program in Dental Hygiene.

Style: CD-ROM

Exam Format: Multiple choice

DH 3133 Pharmacology

A-F only, 2 credit(s); prereq DH student;

Instructor: Kinneberg, Barry J

Description: Student may contact the instructor or department for information.

DH 3211 Biomaterials and Principles of Restorative Techniques I

A-F only, 4 credit(s), max credits 8; prereq DH student;

Instructor: Dittmar, Susan Kyle

Description: Student may contact the instructor or department for information.

DH 3224W Dental Hygiene Care Process Clinical Application IV

A-F only, 4 credit(s); prereq Dental hygiene student; Meets CLE req of Writing Intensive;

Instructor: Blue, Christine M

Description: Student may contact the instructor or department for information.

DH 3228 Ethics and Jurisprudence for the Dental Hygienist

A-F only, 1 credit(s); prereq Dental hygiene student;

Instructor: Johnson, Kimberly S

Description: Student may contact the instructor or department for information.

DH 3234 Oral and Maxillofacial Radiology: Theory, Principles, and Radiographic Analysis

A-F only, 2 credit(s); prereq Matriculated into dental hygiene program, 2nd yr;

Instructor: Ahmad, Mansur

Description: Student may contact the instructor or department for information.

DH 3238 Dental Public Health and Academic Service Learning

A-F only, 3 credit(s); prereq Matriculated into DH;

Instructor: Basile, Sarah Mae

Description: Student may contact the instructor or department for information.

DH 4125W The Dental Hygiene Care Process Clinical Application V

A-F only, 1-6 credit(s), max credits 6, 1 completion allowed; prereq DH student; Meets CLE req of Writing Intensive;

Instructor: STAFF

Description: This course covers the advanced dental hygiene care process. You will learn to analyze patient preventive/treatment needs through case-based teaching. There is emphasis on cultural diversity, family violence issues, and using technology in patient care.

DH 4300 Elective Academic Service Learning Experiences and Externships

S-N only, 0-13 credit(s), max credits 13, 1 completion allowed; prereq Dental hygiene student;

Instructor: Blue, Christine M

Description: Student may contact the instructor or department for information.

DH 4301 Dental Hygiene: Theory to Practice

A-F only, 4 credit(s); prereq DH student;

Instructor: Newell, Kathleen Jane

Description: Student may contact the instructor or department for information.

DH 4302 Dental Hygiene Care: Special Needs Patients

A-F only, 2 credit(s); prereq DH student;

Instructor: STAFF

Description: Student may contact the instructor or department for information.

DH 4303 Information Literacy

S-N only, 3 credit(s);

Instructor: STAFF

Description: Student may contact the instructor or department for information.

DH 5201 Management Internship

A-F only, 5 credit(s); prereq Dental hygiene grad student;

Instructor: Blue, Christine M

Description: Student may contact the instructor or department for information.

for information.

DH 5405 Curriculum and Course Development

A-F only, 2 credit(s); max credits 4; prereq Dental Hygiene grad student;

Instructor: Newell, Kathleen Jane

Description: Student may contact the instructor or department for information.

DH 5407 Instructional Strategies

A-F only, 2 credit(s); prereq Dental hygiene grad student;

Instructor: Stoltenberg, Jill L

Description: Student may contact the instructor or department for information.

Dental Therapy

DT 3210 Head and Neck Anatomy

A-F only, 1 credit(s); prereq Accepted into undergrad dental therapy program;

Instructor: Blue, Christine M

Description: Student may contact the instructor or department for information.

DT 3330 Clinical Application I

A-F only, 3 credit(s); prereq Undergrad dental therapy program;

Instructor: Osborn, Joy B

Description: Student may contact the instructor or department for information.

DT 3429 Introduction to Psychomotor Skill Development

S-N only, 1 credit(s); prereq Dental therapy student;

Instructor: Phair, Craig B

Description: Student may contact the instructor or department for information.

DT 3430 Oral Anatomy

A-F only, 2 credit(s); prereq Accepted into dental therapy program;

Instructor: Madden, Michael John

Description: Student may contact the instructor or department for information.

DT 3431 Oral Anatomy Laboratory

A-F only, 2 credit(s); prereq Accepted in dental therapy program;

Instructor: Madden, Michael John

Description: Student may contact the instructor or department for information.

DT 5210 Head and Neck Anatomy

A-F only, 1 credit(s); prereq Accepted into master's dental therapy program;

Instructor: Blue, Christine M

Description: This course will cover the anatomical structures of the head and neck as they relate to dental therapy treatment.

Style: 85% Lecture, 5% Film/Video, 10% Discussion.

DT 5210 Head and Neck Anatomy

A-F only, 1 credit(s); prereq Accepted into master's dental therapy program;

Instructor: Eliason, Sandra Jean

Description: This course will cover the anatomical structures of the head and neck as they relate to dental therapy treatment.

Style: 85% Lecture, 5% Film/Video, 10% Discussion.

DT 5330 Clinical Application I

A-F only, 3 credit(s); prereq Accepted into master's dental therapy program;

Instructor: Osborn, Joy B

Description: This course will cover the dental therapy care process, assessment principles related to medical and oral

health status, dental therapy clinical procedures and development of instrumentation skills.

DT 5429 Introduction to Psychomotor Skill Development

S-N only, 1 credit(s); prereq In dental therapy program;

Instructor: Phair, Craig B

Description: Student may contact the instructor or department for information.

DT 5430 Oral Anatomy

A-F only, 2 credit(s); prereq Accepted into dental therapy masters program;

Instructor: Madden, Michael John

Description: Student may contact the instructor or department for information.

DT 5431 Oral Anatomy Laboratory

A-F only, 2 credit(s); prereq Accepted into masters in dental therapy program;

Instructor: Madden, Michael John

Description: Student may contact the instructor or department for information.

Dentistry

15-209 Malcolm Moos Health Sciences Tower

DENT 6231 Hospital Dentistry Clinic Rotation

S-N only, 0 credit(s); max credits 1, 1 completion allowed;

Instructor: Nakagaki, Kevin Neil

Description: Student may contact the instructor or department for information.

DENT 6318 Oral and Maxillofacial Pathology Independent Study

S-N only, 1 credit(s); max credits 2;

Instructor: Rohrer, Michael D

Description: Student may contact the instructor or department for information.

DENT 6470 Health Ecology Elective

1-10 credit(s); max credits 10, 1 completion allowed;

Instructor: Born, David Omar

Description: Student may contact the instructor or department for information.

DENT 6480 Advanced General Dentistry Elective

1-10 credit(s); max credits 10, 1 completion allowed;

Instructor: Born, David Omar

Description: Student may contact the instructor or department for information.

DENT 6490 Health Ecology: Independent Study

1-10 credit(s); max credits 10, 1 completion allowed;

Instructor: Born, David Omar

Description: Student may contact the instructor or department for information.

DENT 6624 Periodontology Clinic

A-F only, 2 credit(s); prereq Carranza Jr., F.A. and Newman, M.G.: Clinical Periodontology, 8th edition, W.B. Saunders Co., 1996.;

Instructor: Carlson, Jeffrey F

Description: Student may contact the instructor or department for information.

DENT 6715 Advanced Endodontic Elective

S-N only, 0 credit(s);

Instructor: Baisden, Michael Kenneth

Description: Student may contact the instructor or department for information.

DENT 6811 Operative Dentistry Clinic I

A-F only, 4 credit(s); prereq Operative Dentistry I, II, III, Operative Dentistry I and II Lab;

Instructor: Ziegler, Edgar F

Description: Student may contact the instructor or department for information.

DENT 6814 Operative Dentistry Clinic IV

A-F only, 4 credit(s); prereq Operative Dentistry I, II, III, Operative Dentistry I and II Lab;

Instructor: Ziegler, Edgar F

Description: Student may contact the instructor or department for information.

DENT 6840 Introduction to CAD/CAM CEREC Restorations

S-N only, 2 credit(s);

Instructor: Zidan, Omar Abdel-AI

Description: Student may contact the instructor or department for information.

DENT 6912 Fixed Prosthodontics Clinic I

A-F only, 5 credit(s); prereq The first course of a 2 semester sequence course;

Instructor: Cook, Gary Eugene

Description: Student may contact the instructor or department for information.

DENT 6914 Fixed Prosthodontics Clinic III

A-F only, 5 credit(s); prereq 4810, 4811;

Instructor: Cook, Gary Eugene

Description: Student may contact the instructor or department for information.

DENT 6921 Removable Prosthodontics Clinic I

A-F only, 5 credit(s);

Instructor: Cook, Gary Eugene

Description: Student may contact the instructor or department for information.

DENT 6923 Removable Prosthodontics Clinic III

A-F only, 3 credit(s); prereq 4962, 4963;

Instructor: Cook, Gary Eugene

Description: Student may contact the instructor or department for information.

DENT 7000 Dental Clinic

1-6 credit(s), max credits 6, 1 completion allowed;

Instructor: Olin, Paul S

Description: Student may contact the instructor or department for information.

DENT 7031 Advanced Seminar in Clinical Geriatric Dentistry

S-N only, 1-2 credit(s); prereq [Advanced or grad] student in [dentistry or other AHC discipline];

Instructor: Shuman, Stephen K

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 7051 Advanced Study in the Theory and Principles of Oral Medicine

A-F only, 2 credit(s);

Instructor: Rhodus, Nelson L

Description: Student may contact the instructor or department for information.

DENT 7061 Special Oral Pathology I

A-F only, 0 credit(s); prereq Resident [or grad student] in discipline other than oral pathology;

Instructor: Koutlas, Ioannis George

Description: Student may contact the instructor or department for information.

DENT 7102 Conscious Sedation

2 credit(s); prereq Dentistry grad student;

Instructor: Hinrichs DDS, MS, James Edward

Description: Student may contact the instructor or department for information.

DENT 7111 Current Literature Review in Dentistry

S-N only, 2 credit(s); prereq Grad student in [dentistry or oral biology] or instr consent ;

Instructor: Schulte, John K

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: Schulte, John K

Description: Student may contact the instructor or department for information.

DENT 7991 Independent Study

OPT No Aud, 1-4 credit(s), max credits 8; prereq Enrolled in an advanced dental education program;

Instructor: Shuman, Stephen K

Description: Student may contact the instructor or department for information.

DENT 8090 Evidence-based Clinical Pediatric Dentistry

A-F only, 2 credit(s);

Instructor: Grothe, Ron

Description: Student may contact the instructor or department for information.

DENT 8100 Topics in Advanced Periodontology: Literature Review

2 credit(s);

Instructor: Costalonga, Massimo

Description: Student may contact the instructor or department for information.

DENT 8120 Advanced Principles and Techniques of TMJ and Orofacial Pain Disorders

A-F only, 3 credit(s); prereq Participation in TMJ and orofacial pain advanced education program;

Instructor: Friction, James Ryan

Description: Student may contact the instructor or department for information.

DENT 8121 Current Literature in TMJ and Craniofacial Pain

A-F only, 1 credit(s);

Instructor: Giri, Subha

Description: Student may contact the instructor or department for information.

Design

DES 1910W Freshman Seminar: Storytelling

A-F only, 3 credit(s), max credits 6; prereq Fr; Meets CLE req of Writing Intensive;

Instructor: Hokanson, Brad

Description: How we convey information and convince others often occurs through the use of stories; we use narrative to structure our understanding of the world or of our context; and we use myth as a means to provide order even in the most technological context. Examining the use of stories will provide tools and skills valuable in the world of the future; valuable for any university student. Skill with narrative, as taught in the Harvard Business School, can be a valuable tool and a worthwhile skill. Stories will be developed in written, oral, and visual form. The end products of the class will include oral

presentations, written stories, and graphic novels or comic books. Class will have a number of components, all focused on the development of skills tied together by storytelling. We will have a final performance/presentation for the term of work from the semester.

DES 1910W Freshman Seminar: Printing for Designers

A-F only, 3 credit(s), max credits 6; prereq Fr; Meets CLE req of Writing Intensive;

Instructor: Boyd-Brent, James W

Description: Printing for Designers is a studio and research exploration of how designers reproduce their ideas in print. The studio component of the course will center on hands-on screenprinting in the Surface Design Studio in McNeal Hall, and will also include a hands on introduction to monoprinting, letterpress printing, relief printing, and digital printing. A variety of printing surfaces will be used, including paper and fabric. The research component of the class will focus on how contemporary printing technologies are changing, and the effect these changes are having on creative production in the design world, and will also include a brief overview of the history of printing. This class is open to all freshmen, regardless of background or art/design experience.

DES 3201 Strategic Career Planning for Design

A-F only, 1 credit(s); prereq soph, jr, sr, [Graphic design or interior design or clothing design or environmental design or architecture] major;

Instructor: Perman, Heidi J

Description: This course is meant to teach you the skills necessary to land a great job or internship in the field of design! By the end of this class, you will feel more confident about the steps necessary to obtain a good position. Through in-class activities and homework assignments, you will learn how to create a strong resume, how to market your skills to employers and how to find job openings for your field. The skills you learn in this class will help you throughout your future career!

DES 3201 Strategic Career Planning for Design

A-F only, 1 credit(s); prereq soph, jr, sr, [Graphic design or interior design or clothing design or environmental design or architecture] major;

Instructor: Daves, Christine

Description: This course is meant to teach you the skills necessary to land a great job or internship in the field of design! By the end of this class, you will feel more confident about the steps necessary to obtain a good position. Through in-class activities and homework assignments, you will learn how to create a strong resume, how to market your skills to employers and how to find job openings for your field. The skills you learn in this class will help you throughout your future career!

DES 3311 Travels in Typography

A-F only, 3 credit(s);

Instructor: Moran, Bill

Description: Travels in Typography: A hands-on survey. From Gutenberg to Gill, from papyrus to paper, immerse yourself in the tactile qualities of the printed word. This class will map the development of writing and its offspring, movable type, using the exceptional resources of the internationally-renowned James Ford Bell Library at the University of Minnesota. Throughout the semester students will use the Bell Library's rare book and map collection to undertake hands-on design exercises that take them on a historical and practical tour of all the major developments in typography, including stonecutting, calligraphy and letterpress printing.

DES 3321 Introduction to Furniture Design

A-F only, 3 credit(s);

Instructor: Oliphant, Thomas Arthur

Description: This course will introduce the topic of Furniture Design as discipline, not as method. Material, sensual, and aesthetic, both sublime and mundane; the objects that mediate our environment will be examined within broad context. History, Design Criteria, Technology and Craft will be discussed. Projects will include both a group case-study/ research presentation, and

the individual making /presenting of a concept-prototype.

DES 4301 Design Minor Seminar

A-F only, 3 credit(s); prereq Design minor;

Instructor: Hemmis, Patricia

Description: In this course, we will examine the powerful role of metaphors and related tropes when conceptualizing meanings within the designed environment. We will explore Lakoff and Johnson's notion that "our ordinary conceptual system is metaphorical in nature, and that as a result, metaphors affect the ways we perceive, think and act." We will use these ideas to raise questions about the role of tropes in the designed environment. Through discussion and assignments, students will analyze fundamental metaphoric conceptualizations in addition to identifying and analyzing newly emerging metaphors. We will examine the current role of metaphor in the design process and explore the possibility of an expanded usefulness.

DES 5160 Topics in Design: Evidence-Based Design

A-F only, 3 credit(s), max credits 24, 6 completions allowed;

Instructor: Martin, Caren Samter

Description: Student may contact the instructor or department for information.

Design, Housing, and Apparel 240 McNeal Hall

DHA 1101V Honors: Introduction to Design Thinking

A-F only, 4 credit(s); Meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive;

Instructor: Hemmis, Patricia

Description: DHA 1101v-Introduction to Design Thinking Honors is an introduction to the theories and processes that underpin design thinking and practice. In this Honors course, students will investigate the interactions between humans and their natural, social, and designed environments where purposeful design helps determine the quality of those interactions. Students will be introduced to many facets of the design profession and will gain an interdisciplinary perspective about design and human behavior. This course offers students the opportunity to raise their awareness about the value, power, practice, and responsibility of design in our culture. Audience: This course is intended for undergraduate Honors students with an interest in pursuing design and design-related areas as professions: through clothing design, architecture, interior design, graphic design, housing studies, product design, landscape architecture, urban design and planning, and retail merchandising. This course is also a primary core requirement in the U of M undergraduate design minor. Secondary audiences might be any students who are interested in diverse types of thinking or design processes. Rationale: This course creates an opportunity for all design and design-related students to be in the same classroom, learning from faculty and practitioners of different design specializations, and learning from one another. This setting exposes students to all facets of design and provides them an interdisciplinary perspective about design and human behavior. For non-design students, the course offers the opportunity to raise their awareness about the value and the power of design in our culture. Texts: A required packet of readings and supplemental notes will be available from Books Underground, the bookstore in the St. Paul Student Center. A limited number of packets are also available from the Coffman Union Bookstore. Thackara, J., (2006). In the bubble: Designing in a complex world. The MIT Press.

Style: 25% Lecture, 10% Film/Video, 25% Discussion, 25% Student Presentation, 15% Guest Speakers. Students complete and present to hands-on group projects on design topics. Students work on projects in class, although outside time is also necessary.

Grading: 40% reports/papers, 25% special projects, 30% quizzes, 5% reflection paper.

Exam Format: Tests include short answer, fill in the blank and essay. Students are expected to apply class concepts in written

assignments and on exams.

DHA 1101W Introduction to Design Thinking

A-F only, 4 credit(s); Meets CLE req of Other Humanities

Core; meets CLE req of Writing Intensive;

Instructor: Hemmis, Patricia

Description: DHA 1101v-Introduction to Design Thinking is an introduction to the theories and processes that underpin design thinking and practice. In this writing-intensive course, students will investigate the interactions between humans and their natural, social, and designed environments where purposeful design helps determine the quality of those interactions. Students will be introduced to many facets of the design profession and will gain an interdisciplinary perspective about design and human behavior. This course offers students the opportunity to raise their awareness about the value, power, practice, and responsibility of design in our culture. Audience: This course is intended for undergraduate students with an interest in pursuing design and design-related areas as professions: through clothing design, architecture, interior design, graphic design, housing studies, product design, landscape architecture, urban design and planning, and retail merchandising. This course is also a primary core requirement in the U of M undergraduate design minor. Secondary audiences might be any students who are interested in diverse types of thinking or design processes. Rationale: This course creates an opportunity for all design and design-related students to be in the same classroom, learning from faculty and practitioners of different design specializations, and learning from one another. This setting exposes students to all facets of design and provides them an interdisciplinary perspective about design and human behavior. For non-design students, the course offers the opportunity to raise their awareness about the value and the power of design in our culture. Texts: A required packet of readings and supplemental notes will be available from Books Underground, the bookstore in the St. Paul Student Center. A limited number of packets are also available from the Coffman Union Bookstore.

Style: 50% Lecture, 10% Film/Video, 25% Small Group Activities, 15% Guest Speakers. Students complete and present to hands-on group projects on design topics. Students work on projects in class, although outside time is also necessary.

Grading: 30% reports/papers, 30% special projects, 35% quizzes, 5% reflection paper.

Exam Format: Exams are composed of short answer, essay, and fill in the blank. Exams require students to identify and apply course concepts

DHA 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.

Videos of class activities.
 Minnesota Daily story on creativity class.
It sounds like...<embed src="http://hokanson.design.umn.edu/creativity/CreativeProblemSolvingMusic.mp3" target="new" height="25" width="25"></embed> NOTE: Students from all areas of study are encouraged to enroll in the class.

Style: 20% Lecture, 20% Discussion, 10% Laboratory, 20% Small Group Activities, 10% Demonstration, 5% Field Trips, 10% Guest Speakers, 5% Web Based.

Grading: 10% mid exam, 60% special projects, 10% attendance, 20% reflection paper.

DHA 1111H Honors: Creative Problem Solving

A-F only, 3 credit(s); prereq Honors;

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.
 Minnesota Daily story on creativity class.
 NOTE: Students from all areas of study are encouraged to enroll in the class.

Style: 20% Lecture, 20% Discussion, 10% Laboratory, 20% Small Group Activities, 10% Demonstration, 5% Field Trips, 10% Guest Speakers, 5% Web Based.

Grading: 10% mid exam, 60% special projects, 10% attendance, 20% reflection paper.

DHA 1201 Clothing Design, Merchandising, and the Consumer

A-F only, 3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme;

Instructor: Johnson PhD, Kim KP

Description: In this course I provide students with an orientation to the apparel business, emphasizing ethical dimensions of decision-making regarding the delivery of textile and apparel

products to the ultimate consumer. Topics covered include development of the fashion system and the ready-to-wear industry; early ethical positions on the use of labor; how consumer demand fuels fashion; apparel manufacturing and sweat-shop labor; business and legal framework for the industry; types of retailers and retailing; retail functions; retailer as citizen of the community. To address these topics I use a variety of learning approaches including videos, guest speakers, in-class exercises, case studies, and readings. The course is web enhanced thru WebCT.

Style: 50% Lecture, 20% Discussion. Guest speakers, videos
Grading: 25% final exam, 25% quizzes, 10% class participation, 40% other evaluation. 3 exams given during the semester
Exam Format: Multiple choice, true/false, fill in the blank

DHA 1221 Clothing Assembly Fundamentals

A-F only, 3 credit(s); prereq Pre-clothing design major or instr consent ;

Instructor: STAFF

Description: Introduction to the study of basic clothing structure through analysis of existing garments and application of basic sewing principles for creating new garments. The objectives of the course are: 1) To learn basic clothing assembly skills by studying existing garments and 2) To apply basic sewing fundamentals by creating several basic garments. This class is designed for pre-Clothing Design majors or those students interested in Clothing Design (instructor permission requested). The class is designed for studio learning opportunities with supporting lecture and demonstration. Project work requires an average of 10 hours outside of class.

Style: 25% Lecture, 75% Laboratory.

Grading: 50% final exam, 30% special projects, 20% quizzes.

Exam Format: Multiple choice, true/false, fill in the blank

DHA 1311 Foundations: Drawing and Design in Two and Three Dimensions

A-F only, 4 credit(s); prereq DHA major or premajor;

Instructor: STAFF

Description: In this course the formal, perceptual, symbolic and technical aspects of visual communication will be introduced--with the emphasis on drawing. Design elements and principles will be applied within the context of observational drawing, as well as two- and-three dimensional design. Design process and creative problem solving will be stressed. We will work in a variety of mediums -- charcoal, conte, white chalk, but the emphasis will be on gaining expertise with the pencil. Subject matter will range from the figure to two-dimensional abstraction projects. You will gain expertise in drawing technique, as well as in composition, visual unity and balance and in visual analysis of drawings.

Style: 20% Lecture, 20% Discussion. 60% studio work

Grading: 10% class participation, 90% other evaluation. visual assignments

Exam Format: Final presentation

DHA 1312 Foundations: Color and Design in Two and Three Dimensions

A-F only, 4 credit(s); prereq DHA major or pre-major;

Instructor: STAFF

Description: "This design foundations course introduces students to color theory and its application in two and three dimensional design through lectures, demonstrations, extensive studio work and critiques. Emphasis is on developing students' ability to use color effectively in two and three dimensional design applications by studying traditional design elements, gestalt grouping principles, theories of color organization, color and spatial perception, and color interaction." But it is so much more. Intended for (pre) majors in graphic design, clothing design, interior design, and housing; this class has a well-earned reputation as 'the toughest class you'll ever love.' Class time is spent with slide and lecture presentations, studio work, and group and individual critiques. Successful completion requires a significant commitment to time, energy, and resources (supplies run approximately \$200.) The result? You will produce a portfolio that is a descriptive explanation and illustration of color and design theory, enhanced with your own creative projects: a

physical product of impressive proportions. You will be proud of your work. Most importantly, you will see the world in a whole new light. You'll see color where you didn't see it before and recognize the 'color magic' around you.

Style: 20% Lecture. critique; 60% studio work

Grading: 20% reports/papers, 80% other evaluation. studio designs and exercises

DHA 1315 Foundations: The Graphic Studio

A-F only, 4 credit(s); prereq [DHA major or pre-major] or instr consent;

Instructor: STAFF

Description: This class will provide an overview of the design communication process including creative procedure, terminology, and technology, and will introduce the use of current computer applications. Students will gain skills in digital illustration and page layouts, and image- scanning and manipulation. Graphic design elements of typography, production, color separation, printing process, and photography will also be addressed.

Style: 50% Lecture, 10% Discussion, 40% Laboratory.

Grading: 25% class participation, 50% problem solving, 25% other evaluation. in-class exercises

DHA 1601 Interior Design Studio I

A-F only, 4 credit(s); prereq DHA pre-major;

Instructor: STAFF

Description: Introduction to theories used to solve interior design problems related to human behavior. Course based upon the design process and communication skills required of the interior design profession.

Style: 5% Lecture, 10% Discussion. studio

Grading: 10% quizzes, 5% class participation, 85% other evaluation. studio projects

Exam Format: short answer/essay

DHA 2196 Work Experience in DHA

S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent ;

Instructor: LaBat,Karen Louise

Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA

S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent ;

Instructor: Ziebarth,Ann

Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA

S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent ;

Instructor: Hokanson,Brad

Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA

S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent ;

Instructor: Gahring,Sherrri Ann

Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA

S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent ;

Instructor: Yust,Becky L

Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA

S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent ;
Instructor: Angell,William J
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA

S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent ;
Instructor: Martinson,Barbara Elizabeth
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA

S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent ;
Instructor: Bye,Elizabeth Kersch
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA

S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent ;
Instructor: Waldron,Carol C
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA

S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent ;
Instructor: Chu,Sauman
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA

S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent ;
Instructor: Boyd-Brent,James W
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA

S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent ;
Instructor: Hadjiyanni,Tasoulla
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA

S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent ;
Instructor: Martin,Caren Samter
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA

S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent ;
Instructor: Guerin,Denise A
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA

S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor],

written approval of supervisor, instr consent ;

Instructor: Johnson PhD,Kim KP

Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA

S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent ;
Instructor: Zollinger,Stephanie Watson
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA

S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent ;
Instructor: McCarthy,Steven J
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA

S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent ;
Instructor: Crump,Jeffrey R
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA

S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent ;
Instructor: Bruin,Marilyn J
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA

S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent ;
Instructor: Wu,Juanjuan
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA

S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent ;
Instructor: Jasper,Daniel
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA

S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent ;
Instructor: Kim,Hye-Young
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA

S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent ;
Instructor: Dunne,Lucy Elizabeth
Description: Student may contact the instructor or department for information.

DHA 2211 Illustration for Clothing Design

A-F only, 3 credit(s); prereq Pass portfolio review or instr consent ;

Instructor: Sohn,MyungHee

Description: Student may contact the instructor or department for information.

DHA 2213 Textile Analysis

A-F only, 4 credit(s); prereq DHA major or pre-major or instr consent ;

Instructor: LaBat,Karen Louise

Description: Student may contact the instructor or department for information.

DHA 2311 Drawing and Illustration

A-F only, 3 credit(s); prereq 1311, 1312, [DHA major or premajor];

Instructor: Trice,Frances

Description: Student may contact the instructor or department for information.

DHA 2311 Drawing and Illustration

A-F only, 3 credit(s); prereq 1311, 1312, [DHA major or premajor];

Instructor: Owens,John Lee

Description: Student may contact the instructor or department for information.

DHA 2334 Computer Applications I: Digital Composition for Design

A-F only, 3 credit(s); prereq DHA major or pre-major, 1311, 1312, 1315;

Instructor: Husted,Ursula Murray

Description: Student may contact the instructor or department for information.

DHA 2334 Computer Applications I: Digital Composition for Design

A-F only, 3 credit(s); prereq DHA major or pre-major, 1311, 1312, 1315;

Instructor: Harrison,Cynthia L

Description: Student may contact the instructor or department for information.

DHA 2345 Typographic Design

A-F only, 3 credit(s); prereq DHA major, pass portfolio review;

Instructor: STAFF

Description: Typographic Design is an introduction to the art of visual communication: the visual realization of a most basic element of communication--the word. The history of typographic forms, principles of composition, and the expressive potential of type will be explored through reading, research, exercises, and design production. Sequential studies will follow the design process: problem-solving through exploration, experimentation, selection, critique, and refinement. Effectiveness of typographic design will be evaluated in terms of legibility, readability, and expression: the direct correlation to gestalt design principles will be evident. Assignments include textbook readings, research from additional sources, analysis and critique of found design, and, primarily, studio design production. Studio assignments will involve both handwork, to train the eye and hand; and digital typographic design and illustration using QuarkXpress and Illustrator. Class sessions will be held in both classrooms and Macintosh studios. This class is for Graphic Design majors who have passed portfolio review only.

Style: 10% Lecture. studio; 30% critique

Grading: 100% other evaluation. studio design projects including process participation

DHA 2351 Graphic Design I: Text and Image

A-F only, 3 credit(s); prereq 2345, DHA major, pass portfolio review;

Instructor: McCarthy,Steven J

Description: Student may contact the instructor or department for information.

DHA 2351 Graphic Design I: Text and Image

A-F only, 3 credit(s); prereq 2345, DHA major, pass portfolio review;

Instructor: Jasper,Daniel

Description: Student may contact the instructor or department for information.

DHA 2401 Introduction to Housing

A-F only, 3 credit(s);

Instructor: Ziebarth,Ann

Description: Housing is more than "protection from the elements". House and home have social, economic and psychological implications. This course is designed to develop an understanding of and appreciation for the complexity of housing. The goal is to familiarize you with housing as a process and a product in the context of the individual, the family, and the community. Topics addressed include: an introduction to housing studies, architectural styles and preferences, residential construction methods and components, housing finance (buying a home), housing markets, social and psychological aspects of home, and government laws, policies, and regulations. This course is designed for undergraduates, but is open to anyone. Students who are Housing Studies majors and those seeking a minor in Housing Studies are required to complete this course as part of the program core. The course will be web enhanced with a web Vista page that is available to registered students.

Style: 75% Lecture, 20% Discussion. 5% in-class activities

Grading: 25% mid exam, 25% final exam, 40% written homework, 10% class participation.

Exam Format: essay, short answer, some multiple choice, problem solving

DHA 2463 Housing and Community Development

A-F only, 3 credit(s); Meets CLE req of Citizenship/Public Ethics Theme;

Instructor: Crump,Jeffrey R

Description: This course is an examination of the linkages between housing and community development. The process of residential neighborhood change and the impact of housing on neighborhood conditions will also be explored. The course considers theories of neighborhood change, trends in residential development, and ideas of community building. Private sector, community-based, and governmental efforts at neighborhood revitalization and their effectiveness will be studied. Related issues such as racial discrimination in housing, gentrification and the displacement of low-income residents will be surveyed. This course also incorporates a community-based learning component. Specific course goals include: 1. Develop an understanding of linkages between housing and the broader community. 2. Develop an appreciation of the linkages between housing and quality of life. 3. Develop an awareness of the connections between housing and social justice.

Style: 40% Lecture, 20% Discussion. Community based learning

Grading: 20% final exam, 30% quizzes, 10% class participation, 40% other evaluation. Community based learning

Exam Format: Essay

DHA 2603 Interior Design Studio III

A-F only, 4 credit(s); prereq 1602 with grade of at least C-, pass portfolio review, DHA major;

Instructor: STAFF

Description: Focus of the course is on presentation skills design of interior environment as influenced by neighborhood, adjacent structures, regional context and diverse cultures.

Style: 5% Lecture, 10% Discussion. studio

Grading: 95% other evaluation. studio projects

DHA 2612 Interior Materials and Specifications

A-F only, 4 credit(s); prereq Pass portfolio review, DHA major;

Instructor: Lemire,Roxanne Louise

Description: Student may contact the instructor or department for information.

DHA 2621 Computer Aided Design: Interior Design

A-F only, 4 credit(s); prereq [DHA major, pass portfolio review] or instr consent ;

Instructor: STAFF

Description: Application of two- and three-dimensional computer drawing in design/visualization of interior space. AutoCAD software used on a window-based system.

Style: 5% Lecture, 5% Discussion, 60% Laboratory. design problem solving

Grading: 10% quizzes, 5% class participation, 85% problem solving.

Exam Format: CAD exercises and short answer

DHA 3170 Special Topics in Design, Housing, and Apparel

A-F only, 1-4 credit(s), max credits 32, 8 completions allowed;

Instructor: Olson, Beverly A

Description: This course looks at shopping anthropology from creating demand to shopping spaces (why, where, and how we shop). We will analyze the evolution of shopping based on Victor Gruen, developer of the Southdale Mall, Edina, Minnesota. We will discuss the inspirations and motivations of his remarkable shopping psychology. Following historical shopping time lines including medieval marketplaces and Renaissance Italian arcades we will see how art and commerce combine on the international scene. Study kings, merchants and tailors creating demand. Compare types of shopping mall design, retail display, retail mix, and community activities. Understand the marketing emphasis on retail and recreation partnerships.

Style: 40% Lecture, 5% Film/Video, 10% Discussion, 15% Small Group Activities, 10% Student Presentation, 15% Field Trips, 5% Guest Speakers.

Grading: 40% reports/papers, 25% special projects, 25% in-class presentation, 10% class participation.

Exam Format: Final research paper due Wednesday, Nov. 12, 2008

DHA 3201 Strategic Career Planning

A-F only, 1 credit(s); prereq [Jr or sr or at least 60 cr], retail merchandising major;

Instructor: Fredrickson, Heather Nagle

Description: Strategic Career Planning for students in Retail Merchandising - Discover your strengths, learn what career opportunities fit with your major and develop top-notch skills and materials to land you an ideal internship or job! The focus of this course is to increase your awareness, knowledge and skills associated with the career identification and internship/job search process. Through this course you will gain an understanding of the relationship of interests, skills, personality, and work values to career choice. Each topic will convey information that will be applicable for a lifetime of career development and employment change. Learning job search strategies and developing application skills are intended to increase your level of self-confidence in this process. You will: examine your skills, interests and individual strengths; learn about retail-related careers and companies; produce a resume and sample cover letter that best represent your experience and career interests to potential employers; learn networking and internship/job search techniques, including identifying employment listings and conducting employer research; learn how to research and prepare for salary negotiation; prepare for and practice an interview; and develop an action plan and set career related goals. This is an interactive course, which also includes individual practice/mock interviews with Career Professionals and a Career Panel.

Style: 55% Lecture, 10% Discussion. Class Activities

Grading: 50% reports/papers, 40% special projects, 10% class participation.

DHA 3217 Fashion Trends and Visual Analysis

A-F only, 3 credit(s); prereq 2213;

Instructor: Wu, Juanjuan

Description: Systematic visual analysis of the apparel-body-construct (ABC) with an emphasis on current fashion trends within segmented markets. Upon completion of this course, students should be able to: -- Develop a holistic understanding of fashion, trends, and forecasting in a global setting. -- Understand the dynamic relationships between the viewer, the ABC, & the context. -- Apply visual analysis methods to fashions for segmented markets and understand the interrelationship between fashion movement, markets, and consumers. -- Effectively communicate your understanding of aesthetics and fashion trends in both visual and written form.

DHA 3223 Clothing Design Studio III

A-F only, 4 credit(s); prereq 2222 with grade of at least C-, DHA major, pass portfolio review;

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.

DHA 3242 Retail Buying

A-F only, 3 credit(s); prereq 1201, MATH 1031, 3245, [jr or sr], [DHA major or minor or dept consent] Credit will not be granted if credit has been received for: DHA 4242;

Instructor: Kim, Hye-Young

Description: An overview of the merchandising principles and mathematics needed for retail planning, buying, and selling. Lectures in class will be very concept focused with problem examples. The instructor will explain concepts and the use of formulas and then have you work through practice problems assigned from your textbook. You should bring your textbook and a calculator to each class period.

Style: 60% Lecture, 10% Discussion, 10% Small Group Activities, 10% Guest Speakers, 10% Web Based.

Grading: 15% mid exam, 15% final exam, 10% quizzes, 30% additional semester exams, 30% problem solving.

Exam Format: Fill in the blank questions and math questions

DHA 3312 Color and Form in Surface Design

A-F only, 3 credit(s); prereq 1311, 1312, [DHA major or pre-major];

Instructor: Carlson, Anna M

Description: Student may contact the instructor or department for information.

DHA 3312 Color and Form in Surface Design

A-F only, 3 credit(s); prereq 1311, 1312, [DHA major or pre-major];

Instructor: Boyd-Brent, James W

Description: This course will explore use of color in surface design with particular emphasis on hands on screenprinting (screenprinting for designers) on paper. There will also be a monoprinting on paper and fabric, and a surface design on fabric component (dyeing, screenprinting).

Style: 5% Lecture, 20% Discussion, 60% Laboratory, 5% Student Presentation, 5% Demonstration, 5% Field Trips. visual assignments both and in- and out of class work

Grading: 5% mid exam, 10% class participation, 85% other evaluation. visual assignments and in-class work

DHA 3352 Graphic Design II: Identity and Symbols

A-F only, 3 credit(s); prereq 2351, DHA major;

Instructor: Chu, Sauman

Description: This course will build on previously learned graphic design principles including 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: 20% Lecture, 30% Discussion, 10% Student Presentation, 40% Studio.

Grading: 85% special projects, 5% written homework, 5% journal, 5% class participation.

DHA 3353 Graphic Design III: Packaging and Display

A-F only, 3 credit(s); prereq 3352 or concurrent registration

is required (or allowed) in 3352, DHA major;

Instructor: Pickman, Gregory Hunter

Description: Student may contact the instructor or department for information.

DHA 3605 Interior Design Studio V

A-F only, 4 credit(s); prereq [2402, 2604, 2613] with grade of at least C-, DHA major;

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

DHA 3614 Interior Design Ethics and Professional Practice

A-F only, 4 credit(s); prereq 2604, pass portfolio review; Meets CLE req of Citizenship/Publ Ethics Theme;

Instructor: STAFF

Description: The business of interior design, professional ethics and responsible design are emphasized. Students investigate their responsibility to their business clients, colleagues and the community at large. Professional portfolios and credentials will be discussed. This course will be web enhanced.

Style: 35% Lecture, 30% Discussion, portions of the course on the web

Grading: 20% special projects, 30% quizzes, 10% class participation, 40% problem solving.

Exam Format: multiple choice, essay

DHA 4117W Retail Environments and Human Behavior

A-F only, 3 credit(s); prereq 3243, 3245; 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.

DHA 4131W History of Visual Communication

A-F only, 4 credit(s); prereq Intro history or art history course; Meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive;

Instructor: Martinson, Barbara Elizabeth

Description: This course is an overview of the history of visual communication with an emphasis on graphic design. We will explore the history of images and writing systems and develop a better understanding of human communication systems. What can we learn about history and different cultures through the letterforms and symbols that they used? How has visual communication contributed to the formation of the knowledge-base of cultural groups? How do the formal qualities of these communications depict the values and zeitgeist of a time period? Using both primary and secondary sources we will explore these questions. The course format includes faculty and student led lecture and discussion sessions, writing and design work, and a few videos and games. Weekly small group sessions provide an active venue for exploring the ideas covered in lecture. Assignments include one group paper (2 pages), two individual papers (5 pages each), the design of a digital exhibition, and the design of a timeline. Midterm and final exams are included.

Style: 40% Lecture, 5% Film/Video, 30% Discussion, 10% Small Group Activities, 15% Student Presentation.

Grading: 10% mid exam, 10% final exam, 25% reports/papers, 40% special projects, 15% in-class presentation.

Exam Format: short answer, multiple choice, fill in blank, crossword puzzle, who am I? questions.

DHA 4160H Honors Capstone Project

A-F only, 2 credit(s), max credits 4; prereq DHA honors;

Instructor: LaBat, Karen Louise

Description: Student may contact the instructor or department for information.

DHA 4160H Honors Capstone Project

A-F only, 2 credit(s), max credits 4; prereq DHA honors;

Instructor: Ziebarth, Ann

Description: Student may contact the instructor or department for information.

DHA 4160H Honors Capstone Project

A-F only, 2 credit(s), max credits 4; prereq DHA honors;

Instructor: Hokanson, Brad

Description: Student may contact the instructor or department for information.

DHA 4160H Honors Capstone Project

A-F only, 2 credit(s), max credits 4; prereq DHA honors;

Instructor: Gahring, Sherri Ann

Description: Student may contact the instructor or department for information.

DHA 4160H Honors Capstone Project

A-F only, 2 credit(s), max credits 4; prereq DHA honors;

Instructor: Yust, Becky L

Description: Student may contact the instructor or department for information.

DHA 4160H Honors Capstone Project

A-F only, 2 credit(s), max credits 4; prereq DHA honors;

Instructor: Angell, William J

Description: Student may contact the instructor or department for information.

DHA 4160H Honors Capstone Project

A-F only, 2 credit(s), max credits 4; prereq DHA honors;

Instructor: Martinson, Barbara Elizabeth

Description: Student may contact the instructor or department for information.

DHA 4160H Honors Capstone Project

A-F only, 2 credit(s), max credits 4; prereq DHA honors;

Instructor: Bye, Elizabeth Kersch

Description: Student may contact the instructor or department for information.

DHA 4160H Honors Capstone Project

A-F only, 2 credit(s), max credits 4; prereq DHA honors;

Instructor: Waldron, Carol C

Description: Student may contact the instructor or department for information.

DHA 4160H Honors Capstone Project

A-F only, 2 credit(s), max credits 4; prereq DHA honors;

Instructor: Chu, Sauman

Description: Student may contact the instructor or department for information.

DHA 4160H Honors Capstone Project

A-F only, 2 credit(s), max credits 4; prereq DHA honors;

Instructor: Boyd-Brent, James W

Description: Student may contact the instructor or department for information.

DHA 4160H Honors Capstone Project

A-F only, 2 credit(s), max credits 4; prereq DHA honors;

Instructor: Hadjiyanni, Tasoulla

Description: Student may contact the instructor or department for information.

DHA 4160H Honors Capstone Project

A-F only, 2 credit(s), max credits 4; prereq DHA honors;

Instructor: Martin, Caren Samter

Description: Student may contact the instructor or department for information.

DHA 4160H Honors Capstone Project

A-F only, 2 credit(s), max credits 4; prereq DHA honors;

Instructor: Guerin, Denise A

Description: Student may contact the instructor or department for information.

DHA 4160H Honors Capstone Project

A-F only, 2 credit(s), max credits 4; prereq DHA honors;

Instructor: Johnson PhD, Kim KP

Description: Student may contact the instructor or department for information.

DHA 4160H Honors Capstone Project

A-F only, 2 credit(s), max credits 4; prereq DHA honors;

Instructor: DeLong, Marilyn R

Description: Student may contact the instructor or department for information.

DHA 4160H Honors Capstone Project

A-F only, 2 credit(s), max credits 4; prereq DHA honors;

Instructor: Zollinger, Stephanie Watson

Description: Student may contact the instructor or department for information.

DHA 4160H Honors Capstone Project

A-F only, 2 credit(s), max credits 4; prereq DHA honors;

Instructor: McCarthy, Steven J

Description: Student may contact the instructor or department for information.

DHA 4160H Honors Capstone Project

A-F only, 2 credit(s), max credits 4; prereq DHA honors;

Instructor: Crump, Jeffrey R

Description: Student may contact the instructor or department for information.

DHA 4160H Honors Capstone Project

A-F only, 2 credit(s), max credits 4; prereq DHA honors;

Instructor: Bruin, Marilyn J

Description: Student may contact the instructor or department for information.

DHA 4160H Honors Capstone Project

A-F only, 2 credit(s), max credits 4; prereq DHA honors;

Instructor: Wu, Juanjuan

Description: Student may contact the instructor or department for information.

DHA 4160H Honors Capstone Project

A-F only, 2 credit(s), max credits 4; prereq DHA honors;

Instructor: Jasper, Daniel

Description: Student may contact the instructor or department for information.

DHA 4160H Honors Capstone Project

A-F only, 2 credit(s), max credits 4; prereq DHA honors;

Instructor: Kim, Hye-Young

Description: Student may contact the instructor or department for information.

DHA 4160H Honors Capstone Project

A-F only, 2 credit(s), max credits 4; prereq DHA honors;

Instructor: Dunne, Lucy Elizabeth

Description: Student may contact the instructor or department for information.

DHA 4161 History of Interiors and Furnishings: Ancient to 1750

A-F only, 4 credit(s); prereq Arch history course or instr

consent ; Meets CLE req of International Perspect Theme;

Instructor: Zollinger, Stephanie Watson

Description: Study of European and American interiors and furnishings including furniture, textiles and decorative objects.

Style: 70% Lecture, 20% Discussion. small groups

Grading: 40% final exam, 10% reports/papers, 10% special projects, 35% quizzes, 5% class participation.

Exam Format: multiple choice, essay

DHA 4193 Directed Study in Design, Housing, and Apparel

A-F only, 1-4 credit(s), max credits 4; prereq Undergrad,

instr consent ;

Instructor: LaBat, Karen Louise

Description: Student may contact the instructor or department for information.

DHA 4193 Directed Study in Design, Housing, and Apparel

A-F only, 1-4 credit(s), max credits 4; prereq Undergrad,

instr consent ;

Instructor: Ziebarth, Ann

Description: Student may contact the instructor or department for information.

DHA 4193 Directed Study in Design, Housing, and Apparel

A-F only, 1-4 credit(s), max credits 4; prereq Undergrad,

instr consent ;

Instructor: Hokanson, Brad

Description: Student may contact the instructor or department for information.

DHA 4193 Directed Study in Design, Housing, and Apparel

A-F only, 1-4 credit(s), max credits 4; prereq Undergrad,

instr consent ;

Instructor: Gahring, Sherri Ann

Description: Student may contact the instructor or department for information.

DHA 4193 Directed Study in Design, Housing, and Apparel

A-F only, 1-4 credit(s), max credits 4; prereq Undergrad,

instr consent ;

Instructor: Yust, Becky L

Description: Student may contact the instructor or department for information.

DHA 4193 Directed Study in Design, Housing, and Apparel

A-F only, 1-4 credit(s), max credits 4; prereq Undergrad,

instr consent ;

Instructor: Angell, William J

Description: Student may contact the instructor or department for information.

DHA 4193 Directed Study in Design, Housing, and Apparel

A-F only, 1-4 credit(s), max credits 4; prereq Undergrad,

instr consent ;

Instructor: Martinson, Barbara Elizabeth

Description: Student may contact the instructor or department for information.

DHA 4193 Directed Study in Design, Housing, and Apparel

A-F only, 1-4 credit(s), max credits 4; prereq Undergrad,

instr consent ;

Instructor: Bye, Elizabeth Kersch

Description: Student may contact the instructor or department for information.

DHA 4193 Directed Study in Design, Housing, and Apparel

A-F only, 1-4 credit(s), max credits 4; prereq Undergrad,

instr consent ;

Instructor: Waldron, Carol C

Description: Student may contact the instructor or department for information.

DHA 4193 Directed Study in Design, Housing, and Apparel

A-F only, 1-4 credit(s), max credits 4; prereq Undergrad,

instr consent ;

Instructor: Chu, Sauman

Description: Student may contact the instructor or department for information.

DHA 4193 Directed Study in Design, Housing, and Apparel

A-F only, 1-4 credit(s), max credits 4; prereq Undergrad, instr consent ;

Instructor: Boyd-Brent,James W

Description: Student may contact the instructor or department for information.

DHA 4193 Directed Study in Design, Housing, and Apparel

A-F only, 1-4 credit(s), max credits 4; prereq Undergrad, instr consent ;

Instructor: Hadjiyanni,Tasoulla

Description: Student may contact the instructor or department for information.

DHA 4193 Directed Study in Design, Housing, and Apparel

A-F only, 1-4 credit(s), max credits 4; prereq Undergrad, instr consent ;

Instructor: Martin,Caren Samter

Description: Student may contact the instructor or department for information.

DHA 4193 Directed Study in Design, Housing, and Apparel

A-F only, 1-4 credit(s), max credits 4; prereq Undergrad, instr consent ;

Instructor: Guerin,Denise A

Description: Student may contact the instructor or department for information.

DHA 4193 Directed Study in Design, Housing, and Apparel

A-F only, 1-4 credit(s), max credits 4; prereq Undergrad, instr consent ;

Instructor: Johnson PhD,Kim KP

Description: Student may contact the instructor or department for information.

DHA 4193 Directed Study in Design, Housing, and Apparel

A-F only, 1-4 credit(s), max credits 4; prereq Undergrad, instr consent ;

Instructor: DeLong,Marilyn R

Description: Student may contact the instructor or department for information.

DHA 4193 Directed Study in Design, Housing, and Apparel

A-F only, 1-4 credit(s), max credits 4; prereq Undergrad, instr consent ;

Instructor: Zollinger,Stephanie Watson

Description: Student may contact the instructor or department for information.

DHA 4193 Directed Study in Design, Housing, and Apparel

A-F only, 1-4 credit(s), max credits 4; prereq Undergrad, instr consent ;

Instructor: McCarthy,Steven J

Description: Student may contact the instructor or department for information.

DHA 4193 Directed Study in Design, Housing, and Apparel

A-F only, 1-4 credit(s), max credits 4; prereq Undergrad, instr consent ;

Instructor: Crump,Jeffrey R

Description: Student may contact the instructor or department for information.

DHA 4193 Directed Study in Design, Housing, and Apparel

A-F only, 1-4 credit(s), max credits 4; prereq Undergrad, instr consent ;

Instructor: Bruin,Marilyn J

Description: Student may contact the instructor or department for information.

DHA 4193 Directed Study in Design, Housing, and Apparel

A-F only, 1-4 credit(s), max credits 4; prereq Undergrad, instr consent ;

Instructor: Wu,Juanjuan

Description: Student may contact the instructor or department

for information.

DHA 4193 Directed Study in Design, Housing, and Apparel

A-F only, 1-4 credit(s), max credits 4; prereq Undergrad, instr consent ;

Instructor: Jasper,Daniel

Description: Student may contact the instructor or department for information.

DHA 4193 Directed Study in Design, Housing, and Apparel

A-F only, 1-4 credit(s), max credits 4; prereq Undergrad, instr consent ;

Instructor: Kim,Hye-Young

Description: Student may contact the instructor or department for information.

DHA 4193 Directed Study in Design, Housing, and Apparel

A-F only, 1-4 credit(s), max credits 4; prereq Undergrad, instr consent ;

Instructor: Dunne,Lucy Elizabeth

Description: Student may contact the instructor or department for information.

DHA 4196 Internship in DHA

S-N only, 1-4 credit(s), max credits 4, 1 completion allowed; prereq Completion of at least one-half of professional sequence, plan submitted and approved in advance by adviser and internship supervisor, written consent of faculty supervisor, instr. consent;

Instructor: STAFF

Description:

DHA 4216 Retail Promotion and Consumer Decision Making

A-F only, 4 credit(s); prereq [1201 or instr consent], MKTG 4040, [jr or sr]; Credit will not be granted if credit has been received for: DHA 5216;

Instructor: Son,Jihyeong

Description: Student may contact the instructor or department for information.

DHA 4225 Clothing Design Studio V

A-F only, 3 credit(s); prereq [3224, 3225] with grade of at least C-, DHA major;

Instructor: Bye,Elizabeth Kersch

Description: Senior level studio based course. Students use the design process to research and develop a marketable line of garments in preparation for public presentation

Style: 15% Lecture. Studio

Grading: 20% reports/papers, 80% special projects.

DHA 4334 Computer Applications II: Design for the Digital Environment

A-F only, 3 credit(s); prereq [2334 or instr consent],[DHA major or DHA grad student or instr consent], pass portfolio review;

Instructor: Fritchie,Louise Lystig

Description: Student may contact the instructor or department for information.

DHA 4345 Advanced Typographic Design

A-F only, 4 credit(s); prereq [2351, DHA major] or DHA grad student or instr consent ;

Instructor: Waldron,Carol C

Description: Advanced Typographic Design is the continued -- and deeper -- exploration of the expressive visual communication through letterforms and words. Both the fundamental legibility of the invisible art and overt expression through type will be addressed. Students will apply fundamentals of design and typography to simple and complex communication objectives, exploring the expressive potential of varied typographic treatments through contrast, manipulation, arrangement, and juxtaposition. There will be a brief foray into the design of letterforms. Various typographic movements will be studied from both formal and historic perspectives. An extended typographic project will be completed. This class is intended for advanced graphic design majors.

Style: 10% Discussion. studio design projects and critique

Grading: 100% other evaluation. studio design project and performance

Description: Student may contact the instructor or department for information.

DHA 4351 Design Process: Photography

A-F only, 3 credit(s); prereq 1311, 1312, [DHA major or grad or pre-major];

Instructor: Martin, Peter Lynn

Description: This course focuses on the relationship between material design media and the design problem and its most effective solution. Students gain technical skills to take, develop, process, scan, and digitally print photographs. Students also develop design skills by exploring the expressive potential of photographic images, and address issues surrounding manipulation of photographs for design and personal expression. Projects include both image composition and research and analysis. This class is intended primarily for DHA majors who have completed design foundations coursework; students from other majors are welcome as space allows.

Style: 10% Discussion. studio design production and critique

Grading: 10% reports/papers, 90% other evaluation. design projects

DHA 5117 Retail Environments and Human Behavior

A-F only, 3 credit(s); prereq Grad student or instr consent ; 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.

DHA 5123 Living in a Consumer Society

A-F only, 3 credit(s); prereq Sr or grad student;

Instructor: Kim, Hye-Young

Description: Student may contact the instructor or department for information.

DHA 4354 Graphic Design IV: Integrative Campaign

A-F only, 4 credit(s); prereq 3353, DHA major;

Instructor: STAFF

Description: This course will focus on a multi-faceted designed communication campaign involving substantial investigation and conceptual application. The project undertaken will be, in large part, developed by the individual student as a result of his/her research and specific interests. The multi-faceted character of the project will support a unified theme/concept/idea for an identified client that is aimed effectively at a specific market or interest group. The completed project will demonstrate the student's ability to maximally apply acquired knowledge, skill and understanding of design, including a high degree of thought and sophisticated creativity. The course will build on typographic, compositional and imaging skills that students have developed in earlier classes.

Style: 30% Lecture, 30% Discussion. studio time

Grading: 25% class participation, 75% other evaluation. design project

DHA 5185 Human Factors in Design

A-F only, 3 credit(s); prereq Grad student or sr or instr consent ;

Instructor: Dunne, Lucy Elizabeth

Description: Theories and methods of assessing and addressing human factors in design, including topics such as anthropometrics, ergonomics, human-computer interaction, and social/psychological aspects of use.

DHA 5193 Directed Study in Design, Housing, and Apparel

A-F only, 1-4 credit(s), max credits 8; prereq instr consent ;

Instructor: STAFF

Description: Directed study in design, housing and apparel. The topics, course content and readings are developed under the guidance of the supervising faculty member. Typically reserved for graduate students.

Style: Working with supervising faculty

Grading: 100% reports/papers. Or may be related to a project

DHA 4355 Graphic Design Portfolio

S-N only, 3 credit(s); prereq [4354 or 4365], DHA major;

Instructor: Pickman, Gregory Hunter

Description: Student may contact the instructor or department for information.

DHA 5216 Retail Promotion and Consumer Decision Making

A-F only, 4 credit(s); prereq Grad student; Credit will not be granted if credit has been received for: DHA 4216;

Instructor: Son, Jihyeong

Description: Student may contact the instructor or department for information.

DHA 4365W Graphic Design Senior Seminar

A-F only, 3 credit(s); prereq 4354, DHA major; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Writing Intensive;

Instructor: McCarthy, Steven J

Description: Student may contact the instructor or department for information.

DHA 5341 Interactive Design I

A-F only, 3 credit(s); prereq [[4334], [DHA major or grad student], pass portfolio review] or instr consent ;

Instructor: Hokanson, Brad

Description: `<embed src="http://hokanson.design.umn.edu/Eyeballs3.swf" height = "125" width = "125" align="left"></embed>`**Objectives:** ``In this course, students will develop a greater understanding of the use of interactive media; create Internet sites that utilize the work of the class; improve file management and theoretical understanding of computers; develop interface design skills; develop a high level of skill in the area of coding and Flash animation; use a diversity of approaches and tools in the solution of problems; continue to develop skill in pre-planning of interactive presentations; evaluate work by themselves and by peers; have their work evaluated by their others; continue integration and application of the principles of design into their work in computer media.`<p> `Check out the course wiki for full syllabus, examples of student work, and current activities throughout the current semester.``

Style: 10% Lecture, 15% Discussion, 70% Laboratory. Field trips

Grading: 22% in-class presentation, 23% class participation, 41% laboratory evaluation, 14% problem solving.

DHA 4607 Interior Design Studio VII

A-F only, 4 credit(s); prereq 3606 with grade of at least C-, 3614, DHA major;

Instructor: STAFF

Description: Interior Design Studio for majors. The course addresses sense of place and the contribution of artifacts to interior environments. The projects include using historic precedent for adaptive use or renovation of spaces. Life safety issues and universal design are part of the design parameters.

Style: 5% Lecture, 10% Discussion. design studio, critique and the design process

Grading: 15% in-class presentation, 5% class participation, 80% other evaluation. design projects

DHA 4615W Interior Design Research

A-F only, 2 credit(s); prereq [4607 or Concurrent registration is required (or allowed) in 4607], DHA major; Meets CLE req of Writing Intensive;

Instructor: Guerin, Denise A

DHA 5383 Digital Illustration and Animation

A-F only, 4 credit(s); prereq [[4384 or 5341], [DHA major or

DHA grad student], experience with computer illustration] or instr consent ;

Instructor: Chu,Sauman

Description: This is an advanced computer design class which focuses on the integration of design knowledge with Macintosh computer applications. With the support of their understanding of design principles and strategies, students obtain experience using software to create animations. Two programs are emphasized: After Effects and Macromedia Flash. Course goals include broadening students' experience of the applications of interactive software, enhancing the integration of design knowledge with the use of the computer as a medium, and producing sophisticated and professional animation designs. A co-operative learning environment is encouraged.

Style: 20% Discussion, 10% Student Presentation, 20% Demonstration, 50% Studio. Demonstration, studio work, and critique

Grading: 10% class participation, 80% other evaluation. Studio projects, participation

10% other evaluation. in class activities, group assignments

Exam Format: essay

DHA 8101 Philosophical Foundations of Design, Housing, and Apparel

A-F only, 4 credit(s);

Instructor: Bye,Elizabeth Kersch

Description: Examination of different forms of knowledge, understanding of tools and methods of research, interpretation and critical analysis of published data and findings, development of research proposal. ?Ways of knowing? in design, science and the humanities.

DHA 8103 Methodological Orientations: Qualitative Research

A-F only, 3 credit(s);

Instructor: Bruin,Marilyn J

Description: Student may contact the instructor or department for information.

DHA 8113 Teaching and Assessment

A-F only, 4 credit(s); prereq instr consent ;

Instructor: Zollinger,Stephanie Watson

Description: Student may contact the instructor or department for information.

DHA 8192 Readings in Design, Housing, and Apparel

A-F only, 1-3 credit(s), max credits 8, 8 completions allowed; prereq instr consent ;

Instructor: LaBat,Karen Louise

Description: Student may contact the instructor or department for information.

DHA 8192 Readings in Design, Housing, and Apparel

A-F only, 1-3 credit(s), max credits 8, 8 completions allowed; prereq instr consent ;

Instructor: Ziebarth,Ann

Description: Student may contact the instructor or department for information.

DHA 8192 Readings in Design, Housing, and Apparel

A-F only, 1-3 credit(s), max credits 8, 8 completions allowed; prereq instr consent ;

Instructor: Hokanson,Brad

Description: Student may contact the instructor or department for information.

DHA 8192 Readings in Design, Housing, and Apparel

A-F only, 1-3 credit(s), max credits 8, 8 completions allowed; prereq instr consent ;

Instructor: Gahring,Sherri Ann

Description: Student may contact the instructor or department for information.

DHA 8192 Readings in Design, Housing, and Apparel

A-F only, 1-3 credit(s), max credits 8, 8 completions allowed; prereq instr consent ;

Instructor: Yust,Becky L

Description: Student may contact the instructor or department for information.

DHA 8192 Readings in Design, Housing, and Apparel

A-F only, 1-3 credit(s), max credits 8, 8 completions allowed; prereq instr consent ;

Instructor: Angell,William J

Description: Student may contact the instructor or department for information.

DHA 8192 Readings in Design, Housing, and Apparel

A-F only, 1-3 credit(s), max credits 8, 8 completions allowed; prereq instr consent ;

Instructor: Martinson,Barbara Elizabeth

Description: Student may contact the instructor or department for information.

DHA 8192 Readings in Design, Housing, and Apparel

DHA 5467W Housing and the Social Environment

A-F only, 4 credit(s); prereq 2401 or instr consent ; Meets CLE req of Writing Intensive;

Instructor: Yust,Becky L

Description: Why do households vary in what housing they can afford, where they want to live, the types of housing that appeal to them, and how their needs change over their lives? This course explores these issues from the perspective of the household members within our social system and the constraints that keep them from achieving appropriate housing. With an emphasis on the special needs, for example, of elderly persons, minorities, large families, female-headed households, and low-income households, the course is intended to challenge students to develop their own ideas about housing and requires research work, data interpretation, and independent thinking. The assignments are flexible enough to permit students to use the strength of their individual backgrounds and interests to good advantage in the class. For example, if you have experience in some specific aspect of housing or with a particular group you will be able to focus on those aspects about which you are knowledgeable and explore them in more depth. There are two major projects in the class. One, a paper (about 15 pages), builds from assignments during the semester to analyze the characteristics and needs of a type of household, the constraints they face in finding housing, and options available to satisfy their housing needs. The second major project is a survey of residents of a multi-family housing development. Using the techniques of a post-occupancy evaluation, students tour the site (transportation provided), do site observations, create a questionnaire for distribution to the residents, analyze the data, and summarize the results. Through these two projects, students are equipped to understand housing needs of households and how programs and policies can work to support their needs.

Style: 70% Lecture, 10% Discussion, 10% Small Group Activities, 10% Student Presentation.

Grading: 25% mid exam, 13% final exam, 44% reports/papers, 6% in-class presentation, 12% class participation.

Exam Format: multiple choice

DHA 5481 Promoting Independence in Housing and Community

A-F only, 3 credit(s); prereq [2401, [jr or sr or grad student]] or instr consent ;

Instructor: STAFF

Description: This course is an interdisciplinary seminar in the study of supportive housing across the lifespan. Particular emphasis will be on housing needs of children, older adults, and persons with disabilities. We will examine the ways in which housing facilitates or inhibits the quality of life for persons with special needs. With the instructor's permission this course is open to any interested person. It is designed for upper division undergraduates, Housing Studies Certificate students and students in DHA graduate programs with a housing studies emphasis.

Style: 80% Lecture, 15% Discussion. site visits, guest speakers

Grading: 20% mid exam, 20% final exam, 50% special projects,

- A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;**
prereq instr consent ;
Instructor: Bye,Elizabeth Kersch
Description: Student may contact the instructor or department for information.
- DHA 8192 Readings in Design, Housing, and Apparel**
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
prereq instr consent ;
Instructor: Waldron,Carol C
Description: Student may contact the instructor or department for information.
- DHA 8192 Readings in Design, Housing, and Apparel**
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
prereq instr consent ;
Instructor: Chu,Sauman
Description: Student may contact the instructor or department for information.
- DHA 8192 Readings in Design, Housing, and Apparel**
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
prereq instr consent ;
Instructor: Boyd-Brent,James W
Description: Student may contact the instructor or department for information.
- DHA 8192 Readings in Design, Housing, and Apparel**
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
prereq instr consent ;
Instructor: Hadjiyanni,Tasoulla
Description: Student may contact the instructor or department for information.
- DHA 8192 Readings in Design, Housing, and Apparel**
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
prereq instr consent ;
Instructor: Guerin,Denise A
Description: Student may contact the instructor or department for information.
- DHA 8192 Readings in Design, Housing, and Apparel**
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
prereq instr consent ;
Instructor: Johnson PhD,Kim KP
Description: Student may contact the instructor or department for information.
- DHA 8192 Readings in Design, Housing, and Apparel**
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
prereq instr consent ;
Instructor: DeLong,Marilyn R
Description: Student may contact the instructor or department for information.
- DHA 8192 Readings in Design, Housing, and Apparel**
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
prereq instr consent ;
Instructor: Zollinger,Stephanie Watson
Description: Student may contact the instructor or department for information.
- DHA 8192 Readings in Design, Housing, and Apparel**
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
prereq instr consent ;
Instructor: McCarthy,Steven J
Description: Student may contact the instructor or department for information.
- DHA 8192 Readings in Design, Housing, and Apparel**
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
prereq instr consent ;
Instructor: Crump,Jeffrey R
Description: Student may contact the instructor or department for information.
- DHA 8192 Readings in Design, Housing, and Apparel**
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
prereq instr consent ;
Instructor: Bruin,Marilyn J
Description: Student may contact the instructor or department for information.
- DHA 8192 Readings in Design, Housing, and Apparel**
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
prereq instr consent ;
Instructor: Wu,Juanjuan
Description: Student may contact the instructor or department for information.
- DHA 8192 Readings in Design, Housing, and Apparel**
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
prereq instr consent ;
Instructor: Jasper,Daniel
Description: Student may contact the instructor or department for information.
- DHA 8192 Readings in Design, Housing, and Apparel**
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
prereq instr consent ;
Instructor: Kim,Hye-Young
Description: Student may contact the instructor or department for information.
- DHA 8192 Readings in Design, Housing, and Apparel**
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
prereq instr consent ;
Instructor: Dunne,Lucy Elizabeth
Description: Student may contact the instructor or department for information.
- DHA 8193 Directed Study in Design, Housing, and Apparel**
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
prereq instr consent;
Instructor: LaBat,Karen Louise
Description: Student may contact the instructor or department for information.
- DHA 8193 Directed Study in Design, Housing, and Apparel**
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
prereq instr consent;
Instructor: Ziebarth,Ann
Description: Student may contact the instructor or department for information.
- DHA 8193 Directed Study in Design, Housing, and Apparel**
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
prereq instr consent;
Instructor: Hokanson,Brad
Description: Student may contact the instructor or department for information.
- DHA 8193 Directed Study in Design, Housing, and Apparel**
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
prereq instr consent;
Instructor: Gahring,Sherri Ann
Description: Student may contact the instructor or department for information.
- DHA 8193 Directed Study in Design, Housing, and Apparel**
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
prereq instr consent;
Instructor: Yust,Becky L
Description: Student may contact the instructor or department for information.
- DHA 8193 Directed Study in Design, Housing, and Apparel**
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
prereq instr consent;
Instructor: Angell,William J
Description: Student may contact the instructor or department for information.

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DHA 8193 Directed Study in Design, Housing, and Apparel
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
prereq instr consent;
Instructor: Martinson,Barbara Elizabeth
Description: Student may contact the instructor or department for information.

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A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
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Description: Student may contact the instructor or department for information.

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prereq instr consent;
Instructor: Waldron,Carol C
Description: Student may contact the instructor or department for information.

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A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
prereq instr consent;
Instructor: Chu,Sauman
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A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
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DHA 8193 Directed Study in Design, Housing, and Apparel
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
prereq instr consent;
Instructor: Hadjiyanni,Tasoulla
Description: Student may contact the instructor or department for information.

DHA 8193 Directed Study in Design, Housing, and Apparel
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
prereq instr consent;
Instructor: Martin,Caren Samter
Description: Student may contact the instructor or department for information.

DHA 8193 Directed Study in Design, Housing, and Apparel
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
prereq instr consent;
Instructor: Guerin,Denise A
Description: Student may contact the instructor or department for information.

DHA 8193 Directed Study in Design, Housing, and Apparel
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
prereq instr consent;
Instructor: Johnson PhD, Kim KP
Description: Student may contact the instructor or department for information.

DHA 8193 Directed Study in Design, Housing, and Apparel
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
prereq instr consent;
Instructor: DeLong,Marilyn R
Description: Student may contact the instructor or department for information.

DHA 8193 Directed Study in Design, Housing, and Apparel
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
prereq instr consent;

Instructor: Zollinger,Stephanie Watson

Description: Student may contact the instructor or department for information.

DHA 8193 Directed Study in Design, Housing, and Apparel
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
prereq instr consent;
Instructor: McCarthy,Steven J
Description: Student may contact the instructor or department for information.

DHA 8193 Directed Study in Design, Housing, and Apparel
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
prereq instr consent;
Instructor: Crump,Jeffrey R
Description: Student may contact the instructor or department for information.

DHA 8193 Directed Study in Design, Housing, and Apparel
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
prereq instr consent;
Instructor: Bruin,Marilyn J
Description: Student may contact the instructor or department for information.

DHA 8193 Directed Study in Design, Housing, and Apparel
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
prereq instr consent;
Instructor: Wu,Juanjuan
Description: Student may contact the instructor or department for information.

DHA 8193 Directed Study in Design, Housing, and Apparel
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
prereq instr consent;
Instructor: Jasper,Daniel
Description: Student may contact the instructor or department for information.

DHA 8193 Directed Study in Design, Housing, and Apparel
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
prereq instr consent;
Instructor: Kim,Hye-Young
Description: Student may contact the instructor or department for information.

DHA 8193 Directed Study in Design, Housing, and Apparel
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
prereq instr consent;
Instructor: Dunne,Lucy Elizabeth
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project
S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: LaBat,Karen Louise
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project
S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: Ziebarth,Ann
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project
S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: Hokanson,Brad
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project

S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: Gahring, Sherri Ann
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project

S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: Yust, Becky L
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project

S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: Angell, William J
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project

S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: Martinson, Barbara Elizabeth
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project

S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: Bye, Elizabeth Kersch
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project

S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: Waldron, Carol C
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project

S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: Chu, Sauman
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project

S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: Boyd-Brent, James W
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project

S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: Hadjiyanni, Tasoulla
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project

S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: Martin, Caren Samter
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project

S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: Guerin, Denise A
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project

S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: Johnson PhD, Kim KP
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project

S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: DeLong, Marilyn R
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project

S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: Zollinger, Stephanie Watson
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project

S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: McCarthy, Steven J
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project

S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: Crump, Jeffrey R
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project

S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: Bruin, Marilyn J
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project

S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: Wu, Juanjuan
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project

S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: Jasper, Daniel
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project

S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: Kim, Hye-Young
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project

S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: Dunne, Lucy Elizabeth
Description: Student may contact the instructor or department for information.

DHA 8268 Behavioral Aspects of Dress

A-F only, 3 credit(s);
Instructor: Johnson PhD, Kim KP
Description: Student may contact the instructor or department for information.

DHA 8463 Housing: Race and Class**A-F only, 3 credit(s);****Instructor:** Crump,Jeffrey R**Description:** Student may contact the instructor or department for information.**DHA 8990 MFA Creative Thesis****A-F only, 6 credit(s), max credits 12; prereq Completed coursework requirements for MFA in DHA w/multimedia emphasis, instr consent ;****Instructor:** Hokanson,Brad**Description:** Student may contact the instructor or department for information.**DHA 8990 MFA Creative Thesis****A-F only, 6 credit(s), max credits 12; prereq Completed coursework requirements for MFA in DHA w/multimedia emphasis, instr consent ;****Instructor:** Martinson,Barbara Elizabeth**Description:** Student may contact the instructor or department for information.**DHA 8990 MFA Creative Thesis****A-F only, 6 credit(s), max credits 12; prereq Completed coursework requirements for MFA in DHA w/multimedia emphasis, instr consent ;****Instructor:** Waldron,Carol C**Description:** Student may contact the instructor or department for information.**DHA 8990 MFA Creative Thesis****A-F only, 6 credit(s), max credits 12; prereq Completed coursework requirements for MFA in DHA w/multimedia emphasis, instr consent ;****Instructor:** Chu,Sauman**Description:** Student may contact the instructor or department for information.**DHA 8990 MFA Creative Thesis****A-F only, 6 credit(s), max credits 12; prereq Completed coursework requirements for MFA in DHA w/multimedia emphasis, instr consent ;****Instructor:** Boyd-Brent,James W**Description:** Student may contact the instructor or department for information.**DHA 8990 MFA Creative Thesis****A-F only, 6 credit(s), max credits 12; prereq Completed coursework requirements for MFA in DHA w/multimedia emphasis, instr consent ;****Instructor:** McCarthy,Steven J**Description:** Student may contact the instructor or department for information.**DHA 8990 MFA Creative Thesis****A-F only, 6 credit(s), max credits 12; prereq Completed coursework requirements for MFA in DHA w/multimedia emphasis, instr consent ;****Instructor:** Jasper,Daniel**Description:** Student may contact the instructor or department for information.**Development Studies and Social Change****537 Heller Hall****DSSC 8111 Approaches to Knowledge and Truth: Ways of Knowing in Development Studies and Social Change****S-N only, 2 credit(s); prereq Grad DSSC minor or instr consent ;****Instructor:** Sawhney,Simona**Description:** Student may contact the instructor or department

for information.

DSSC 8211 Doctoral Research Workshop in Development Studies and Social Change**S-N only, 2 credit(s); prereq Grad DSSC minor or instr consent ;****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; prereq Grad DSSC minor or instr consent ;****Instructor:** Oberhauser,Karen S**Description:** Student may contact the instructor or department for information.**Doctor of Dental Surgery****15-209 Malcolm Moos Health Sciences Tower****DDS 6112 Periodontology II: Technique****A-F only, 2.2 credit(s); prereq In DDS program;****Instructor:** Danielson,Judy Ann**Description:** Periodontology Technique is designed to introduce second year dental students to the fundamentals of periodontal instrumentation and techniques. This course utilizes periodontal curriculum content introduced in Periodontology I (Dent 5611) during Summer Semester 2008. Periodontology Technique curriculum will provide practical lab and clinical experiences to allow the student to attain beginner skills in evaluation, prevention, and treatment of gingival and periodontal disease.**DDS 6141 Pediatric Dentistry Clinic****A-F only, 3.6 credit(s); prereq 3rd yr DDS student;****Instructor:** Yesil,Jasmine**Description:** Student may contact the instructor or department for information.**DDS 6152 Oral and Maxillofacial Surgery I****A-F only, 1.1 credit(s);****Instructor:** Hughes,Pamela Jean**Description:** This course is an introductory level didactic presentation of the fundamental concepts of oral and maxillofacial surgery. Emphasis is placed on the fundamental skills of oral surgery which apply to the practice of general dentistry.**DDS 6171 Orthodontics I****A-F only, 2.7 credit(s);****Instructor:** Pliska DDS,MS,Benjamin T**Description:** Student may contact the instructor or department for information.**DDS 6213 Microbiology for Dental Students****A-F only, 4.7 credit(s); prereq In DDS program;****Instructor:** Jardine,Paul James**Description:** Student may contact the instructor or department for information.**DDS 6214 General Histology****A-F only, 4 credit(s); prereq Accepted into DDS program;****Instructor:** Buchanan,Judith A**Description:** The purpose of this course is for students to learn the structure and basic function of cells, tissues, organs and organ systems. The course begins with description and discussion of cells that comprise the basic tissues. The unique arrangement of basic tissues to form organs and organ systems is then discussed. The course ends with discussion of general concepts of human embryologic development and embryologic development of head and neck structures. The intent is for students to have a clear mental image of the human body at the

microscopic level at the successful completion of the course. Students are expected to be competent to describe and identify the structural microscopic features and functions of cells, tissues, organs and organ systems. The information and concepts students learn in general histology will be used to facilitate learning in other biomedical science courses, such as biochemistry, physiology, gross anatomy, oral histology, pathology, microbiology, pharmacology and oral pathology.

DDS 6234 Patient Management and Radiographic Interpretation
A-F only, 2 credit(s); prereq In DDS program;

Instructor: Ahmad, Mansur

Description: Student may contact the instructor or department for information.

DDS 6235 Oral Radiology Preclinical Lab I

S-N only, 0.9 credit(s); prereq In DDS program;

Instructor: Ahmad, Mansur

Description: Student may contact the instructor or department for information.

DDS 6243 Oral Radiology Clinic

A-F only, 0.5 credit(s); prereq 3rd yr DDS student;

Instructor: Ahmad, Mansur

Description: Student may contact the instructor or department for information.

DDS 6331 Dental Care Delivery and Oral Epidemiology

A-F only, 1.9 credit(s); prereq 1st yr in DDS Program;

Instructor: Born, David Omar

Description: The course presents the dentist as engaged with multiple communities, as a professionally responsible and ethical individual. Students emerge from the course understanding the public health approach to disease and the tools used to address the public's oral health needs. In addition, students will have an understanding of the ways in which oral health care is delivered in the U.S. and of the factors impacting the supply and demand for dental services. The course director encourages students to develop analytical skills and to think critically about the delivery of dental care.

DDS 6337 Current Legal Issues for the New Dentist

A-F only, 2.1 credit(s); prereq In DDS program;

Instructor: Ryan, Mary-Lynn L

Description: Student may contact the instructor or department for information.

DDS 6411 Applied Dental Biomaterials

A-F only, 2 credit(s); prereq In DDS program;

Instructor: Combe, Edward Charles

Description: Student may contact the instructor or department for information.

DDS 6431 Oral Anatomy I

A-F only, 2 credit(s); prereq 1st yr DDS student;

Instructor: Madden, Michael John

Description: This course in oral anatomy is part of the pre-clinical curriculum and is designed to introduce the basic morphological characteristics of the human dentition and associate contiguous structures. The format includes lectures and laboratory. The laboratory is designed to assist in the development of your manual dexterity skills and at the same time facilitate the learning of dental anatomy of the human dentition. The aim of this course is to provide foundational knowledge that could be applied to most, if not all situations they may encounter in general clinical practice.

DDS 6432 Oral Anatomy Laboratory I

A-F only, 2.9 credit(s); prereq 1st yr DDS student;

Instructor: Madden, Michael John

Description: Application of oral anatomy. Fixed prosthodontic lab techniques. Fundamentals of tooth preparation. Designed to assist in development of manual dexterity skills and knowledge of dental anatomy of the human dentition.

DDS 6433 Introduction to Psychomotor Skill Development I and II

S-N only, 0.7 credit(s), max credits 1.4; prereq 1st yr DDS student;

Instructor: Phair, Craig B

Description: The purpose of this course is to develop specific psychomotor skills through the use of virtual reality training that will better prepare dental students for the further development of their skills in the Prosthodontics and Operative courses. Psychomotor skills, mirror skills and proper ergonomics through the preparation of intra-coronal cavity preparations will be the emphasis of this course. Objective feedback utilized by the "Dent Sim" technology will provide the student instantaneous evaluation of their progress.

DDS 6436 Operative Dentistry II

A-F only, 2.1 credit(s); prereq In DDS program;

Instructor: Phair, Craig B

Description: Student may contact the instructor or department for information.

DDS 6437 Operative Dentistry II Lab

A-F only, 2.9 credit(s); prereq In DDS program;

Instructor: Phair, Craig B

Description: Student may contact the instructor or department for information.

DDS 6439 Operative Dentistry IV

A-F only, 2 credit(s); prereq 3rd yr DDS student;

Instructor: Zidan, Omar Abdel-Al

Description: Student may contact the instructor or department for information.

DDS 6475 Preclinical Prosthodontics Techniques Lecture IV

A-F only, 3.1 credit(s); prereq In DDS program;

Instructor: Palik DDS, MS, Joyce F.

Description: Student may contact the instructor or department for information.

DDS 6476 Preclinical Prosthodontic Technique Laboratory IV

A-F only, 4.8 credit(s); prereq In DDS program;

Instructor: Palik DDS, MS, Joyce F.

Description: Student may contact the instructor or department for information.

DDS 6611 Elective Short Term Externship

S-N only, 1-5 credit(s), max credits 5, 1 completion allowed; prereq DDS Program;

Instructor: Berthold, Peter

Description: Student may contact the instructor or department for information.

DDS 6613 Endodontic Topics for the General Dentist

S-N only, 0 credit(s);

Instructor: Baisden, Michael Kenneth

Description: Student may contact the instructor or department for information.

DDS 6621 Introduction to CAD/CAM Restorations

S-N only, 2 credit(s);

Instructor: Zidan, Omar Abdel-Al

Description: Student may contact the instructor or department for information.

DDS 6911 Essentials of Clinical Care: D3

S-N only, 6-18 credit(s), max credits 54, 3 completions allowed; prereq DDS 3rd yr;

Instructor: Buchanan, Judith A

Description: Student may contact the instructor or department for information.

DDS 6921 Essentials of Clinical Care: D4

S-N only, 6-18 credit(s), max credits 54, 3 completions allowed; prereq DDS 4th yr;

Instructor: Buchanan, Judith A

Description: Student may contact the instructor or department for information.

Dutch

205 Folwell Hall

DTCH 1001 Beginning Dutch

5 credit(s); Credit will not be granted if credit has been received for: DTCH 4001;

Instructor: Oosterhoff, Jenneke A

Description: Hallo, mijn naam is Jan. Ik kom uit Nederland. Ik woon in Minneapolis. Ik studeer economie. Wow, isn't it amazing how similar Dutch is to English? And yet the culture is refreshingly different, in many ways. Come join us for Dutch 1001, the first course in the first-year language instruction sequence (1001-2), designed to develop a basic communicative proficiency in Dutch. You will practice the four language skills (speaking, writing, reading, and listening) and learn to handle simple, everyday transactions. The main books are the text book and exercise book of "Code," volume 1. The book is accompanied by audio and visual material which the instructor will use in class and you are expected to use 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, 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 topics to be introduced includes: shopping, going out, giving directions, looking for housing, traveling, etc. You should expect an average of 2 hours of outside preparation for each class session. See the description for Dch 4001 for an option for qualified students to register for this course for 2 credits (and lower tuition) instead of 4 credits.

Style: 20% Lecture, interactive exercises (including lab)

Grading: 40% quizzes, 40% class participation, 20% other evaluation, written homework

Exam Format: quizzes, tests

DTCH 1003 Intermediate Dutch

5 credit(s); prereq 1002; Credit will not be granted if credit has been received for: DTCH 4003;

Instructor: Oosterhoff, Jenneke A

Description: Hallo, leuk je weer te zien! Ik ben blij dat je weer met Nederlands meedoet. This course continues the presentation of language skills (speaking, writing, listening and reading) begun in Dutch 1001-2, with special focus on the extension of speaking and writing skills. The main books are the text book and cd-rom of "Code." 2. This book is accompanied by audio materials which the instructor will use in class and you are expected to use at home. Class time will be devoted mostly to speaking and pre-writing activities. You will write 4 formal essays, each of which will be followed by a rewrite. In addition, you will read a Dutch novel and a number of short newspaper articles. The course includes a variety of supplementary materials on Dutch life and culture: video sections from Dutch TV, information from Dutch websites, Dutch film, etc. You should expect an average of three hours of outside preparation per class session. See the description for Dch 4003 for an option for qualified students to register for this course for 2 credits instead of 4 credits.

Style: 20% Lecture, pre-writing and interactive exercises

Grading: 10% mid exam, 10% final exam, 30% reports/papers, 30% quizzes, 20% class participation.

Exam Format: quizzes, tests, essays

DTCH 3011 Conversation and Composition

3 credit(s); prereq 1004 or 4004 or instr consent;

Instructor: Oosterhoff, Jenneke A

Description: This course will focus on Dutch literary representations of the Second World War with special interest in children's memories and experiences. Literature as well as art and film will be presented and analyzed. Students will learn about a particularly important period in the history of The

Netherlands with lasting impact on today's culture. Students entering this class should know enough Dutch to read the texts in the original, to participate in class discussions, and to complete written assignments in form of study questions, take home exams, short essays, and journals. To increase their vocabulary, students will be exposed to a multitude of texts: literary texts, film, and lectures. To further their composition and conversation skills, selected grammatical topics and structures will be reviewed and practiced.

Style: 10% Lecture, 10% Film/Video, 50% Discussion, 30% Small Group Activities.

Grading: 30% reports/papers, 20% journal, 20% in-class presentation, 30% class participation, reading journals and other informal writing assignments of varying lengths

Exam Format: essays

DTCH 3310 Studies in Dutch Literature: Children in Wartime Holland

3 credit(s), max credits 9, 3 completions allowed; prereq Reading knowledge of Dutch;

Instructor: Oosterhoff, Jenneke A

Description: This course will focus on Dutch literary representations of the Second World War with special interest in children's memories and experiences. Literature as well as art and film will be presented and analyzed. Students will learn about a particularly important period in the history of The Netherlands with lasting impact on today's culture. Students entering this class should know enough Dutch to read the texts in the original, to participate in class discussions, and to complete written assignments in form of study questions, take home exams, short essays, and journals. To increase their vocabulary, students will be exposed to a multitude of texts: literary texts, film, and lectures. To further their composition and conversation skills, selected grammatical topics and structures will be reviewed and practiced.

Style: 10% Lecture, 10% Film/Video, 50% Discussion, 30% Small Group Activities.

Grading: 30% reports/papers, 20% journal, 20% in-class presentation, 30% class participation, reading journals and other informal writing assignments of varying lengths

Exam Format: essays

DTCH 3993 Directed Studies

1-5 credit(s), max credits 12, 12 completions allowed; prereq instr consent, dept consent, college consent;

Instructor: STAFF

Description: Guided individual reading or study. The student approaches an appropriate professor with a topic of interest, and if the professor has time and is willing to guide the student, the student, along with the professor, fills out a form which is available in the department office (205 Folwell). On this form, they specify the topic, reading and study materials, and form of evaluation.

DTCH 4001 Beginning Dutch

2 credit(s); prereq 1004 in another language or passing score on LPE or grad student; Credit will not be granted if credit has been received for: DTCH 1001;

Instructor: Oosterhoff, Jenneke A

Description: See the course description for Dutch 1001. This 4xxx-level course designator is a special option for qualified students to take the 1xxx-level course for reduced credits. If you have already passed the Language Proficiency Exam (LPE) in another language or are a graduate student or are not seeking a CLA degree, you may register for Dutch 1001 under the number 4001 for 2 credits. Contact the department office, 612 (625-2080) or the instructor (625-0738), for a permission number.

DTCH 4003 Intermediate Dutch

2 credit(s); prereq 1004 in another language or passing score on LPE or grad student; Credit will not be granted if credit has been received for: DTCH 1003;

Instructor: Oosterhoff, Jenneke A

Description: See the course description for Dutch 1003. This 4xxx-level course designator is a special option for qualified students to take the 1xxx-level course for reduced credits. If you

have already passed the Graduation Proficiency Test (GPT) in another language or are a graduate student or are not seeking a CLA degree, you may register for Dutch 1003 under the number 4003 for 2 credits. Contact the department office, 612 (625-2080) or the instructor (625-0738), for a permission number.

DTCH 5993 Directed Studies

1-4 credit(s), max credits 12, 12 completions allowed; prereq instr consent, dept consent, college consent;
Instructor: STAFF

Description: Guided individual reading or study. The student approaches an appropriate professor with a topic of interest, and if the professor has time and is willing to guide the student, the student, along with the professor, fills out a form which is available in the department office (205 Folwell). On this form, they specify the topic, reading and study materials, and form of evaluation.

East Asian Studies

214 Social Sciences Tower

EAS 3461 Introduction to East Asia I: The Imperial Age

3-4 credit(s), max credits 4, 1 completion allowed; Credit will not be granted if credit has been received for: HIST 3461; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme;

Instructor: Wang,Liping

Description: This is a comprehensive introduction to East Asia (China, Japan, Korea, and Vietnam) from prehistoric times to the sixteenth century. It traces the evolution of major political and economic institutions as ways to understand basic structures of political authority and systems of resource distribution in these societies. It outlines major schools of East Asian philosophy and religions, such as Confucianism, Daoism, and Buddhism, and discusses their development and influence in each of the four countries. It analyzes some of the most important features of East Asian society, i.e., family structure and gender relationships in ideology as well as in practice. As part of the overview of East Asian society and culture, the course also introduces main modes of artistic expression through various kinds of visual materials as well as visit to museum. The course stresses the inter-connections within East Asia while highlighting the distinctive paths of historical changes in each of the four countries.

Style: 80% Lecture, 20% Discussion.

EAS 3468 Social Change in Modern China

3 credit(s); Credit will not be granted if credit has been received for: HIST 3468; Meets CLE req of Historical Perspective Core;

Instructor: Wang,Liping

Description: This course explores major issues in modern Chinese society. It begins with the Opium War in 1840 and traces the relationship between anti-drug effort and state building to the 1990s. It examines the New Culture Movement in the 1920s and links it to the emergence of cosmopolitan culture, new women, and popular nationalism. It retells the story of the Great Leap Forward in the 1950s and uses it to analyze the increasing urban/rural gaps under the PRC. It also devotes considerable time to the importance of gender and ethnicity since the early 20th century. Students will achieve a good understanding of modern China through reading and discussing up-to-date scholarship on these above themes and issues. This course is for undergraduate students, both majors and non-majors.

Style: 60% Lecture, 40% Discussion.

Grading: 80% reports/papers, 20% class participation.

EAS 3471 Modern Japan, Meiji to the Present (1868-2000)

3 credit(s); Credit will not be granted if credit has been received for: HIST 3471; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme;

Instructor: Tucker,David Vance

Description: Student may contact the instructor or department for information.

Ecology, Evolution, and Behavior

100 Ecology Building

EEB 3001 Ecology and Society

A-F only, 3 credit(s); prereq [Jr or sr] recommended; biological sciences students may not apply cr toward major; Credit will not be granted if credit has been received for:

BIOL 3407; Meets CLE req of Environment Theme;

Instructor: Vaughter,Philip Claude-Dziuk

Description: Student may contact the instructor or department for information.

EEB 3001 Ecology and Society

A-F only, 3 credit(s); prereq [Jr or sr] recommended; biological sciences students may not apply cr toward major; Credit will not be granted if credit has been received for:

BIOL 3407; Meets CLE req of Environment Theme;

Instructor: Powers,Jennifer Sarah

Description: This course introduces basic concepts in ecology for non-majors, with an emphasis on the application of ecological principles to questions facing society. The three main themes of the course are: 1) natural history and environmental controls on individuals and ecosystems, 2) populations and communities, and 3) ecosystems, landscapes, and global ecology.

Style: 60% Lecture, 35% Discussion, 5% Student Presentation.

Grading: 80% mid exam, 5% reports/papers, 10% written homework, 5% in-class presentation.

Exam Format: Short-answer, short-essay and graphical interpretation questions.

EEB 3603 Science, Protection, and Management of Aquatic Environments

3 credit(s); prereq One semester college biology;

Instructor: Sterner,Robert Warner

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.

Style: 60% Lecture, 40% Discussion.

Grading: 30% mid exam, 25% final exam, 30% reports/papers, 15% class participation.

Exam Format: short answer, essay

EEB 3603 Science, Protection, and Management of Aquatic Environments

3 credit(s); prereq One semester college biology;

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.

Style: 60% Lecture, 40% Discussion.

Grading: 30% mid exam, 25% final exam, 30% reports/papers, 15% class participation.

Exam Format: short answer, essay

EEB 4129 Mammalogy

A-F only, 4 credit(s); prereq Biol 1001 or Biol 2012; Credit will not be granted if credit has been received for: FW 4129; Instructor: Jansa, Sharon A

Description: A course in mammalian biology, including topics in anatomy, evolution, biogeography, behavior, and ecology. Lab emphasizes identification, distribution, and natural history of mammals, with a focus on North American species. Course is targeted towards upperclass undergraduate biology majors and first or second year graduate students. Biol 1001 or 1009 is a required prerequisite; Biol 2012 is recommended.

Style: 60% Lecture, 10% Discussion, 30% Laboratory.

Grading: 30% mid exam, 25% final exam, 15% reports/papers, 30% laboratory evaluation.

Exam Format: short answer, fill-in-the-blank, and essay

EEB 4609W Ecosystem Ecology

3 credit(s); prereq Biol 3407 or instr consent ; Meets CLE req of Writing Intensive;

Instructor: Hobbie, Sarah E

Description: Regulation of energy and elements cycling through ecosystems; dependence of the cycles on kinds and numbers of species within ecosystems; effects of human-induced global changes on the functioning of ecosystems. The course is roughly divided into halves. The first half will provide some background on the history of ecosystem ecology and on climate and soils, but will focus primarily on element cycling, particularly carbon and nutrient cycles. We will examine the energy base of ecosystems? what controls carbon fixation by plants and what is the fate of that fixed carbon. We will also study nutrient inputs to, cycling through, and losses from ecosystems. The second half will focus on interactions and perturbations, including those resulting from human-induced global changes. We will examine transfers of energy from primary producers to higher trophic levels and how herbivory and disturbances such as fire affect primary production and nutrient cycling. We will examine how elevated CO₂, changing climate, increased atmospheric nitrogen deposition, biological invasions, and losses of biodiversity alter ecosystem processes. We will also discuss human dependence on ecosystems.

Style: 66% Lecture, 33% Discussion.

Grading: 35% mid exam, 40% final exam, 20% reports/papers, 5% class participation.

Exam Format: short-answer and essay

EEB 5042 Quantitative Genetics

A-F only, 3 credit(s); prereq [BIOL 4003 or GCD 3022] or instr consent ; a course in statistics is recommended;

Instructor: Shaw, Ruth Geyer

Description: The course begins with consideration of the fundamental processes that influence frequencies of individual genes in populations, including selection, drift, migration and mutation. The remainder of the course concerns inheritance of traits that vary quantitatively. These typically are influenced by several to many genes as well as by environmental conditions. This course, designed for graduate students and for advanced undergraduates majoring in Genetics, EEB, or Biology, has a prerequisite of a general genetics course.

Style: 75% Lecture, 25% Discussion.

Grading: 35% mid exam, 25% final exam, 10% in-class presentation, 30% problem solving. discussion

Exam Format: short essay, problem-solving

EEB 5053 Ecology: Theory and Concepts

4 credit(s); prereq Biol 3407 or instr consent;

Instructor: Tilman, G David

Description: Classical and modern mathematical theories of population growth, interspecific interactions, ecosystem

dynamics and functioning, with emphasis on underlying assumptions and on effects of added biological reality on robustness of predictions, stability, interspecific interactions, ecosystem structure and functioning. The course will also emphasize the use of Mathematica or other software tools to develop ecological models.

EEB 5221 Molecular and Genomic Evolution

A-F only, 3 credit(s); prereq [[Biol 4003 or GCD 3022], grad student]] or instr consent;

Instructor: STAFF

Description: Student may contact the instructor or department for information.

EEB 5605 Limnology Laboratory

A-F only, 2 credit(s); prereq 3603 or instr consent ;

Instructor: STAFF

Description: Student may contact the instructor or department for information.

EEB 5609 Ecosystem Ecology

3 credit(s); prereq [Biol 3407 or Biol 5407] or instr consent ;

Instructor: Hobbie, Sarah E

Description: Student may contact the instructor or department for information.

EEB 8601 Introduction to Stream Restoration

3 credit(s); prereq Grad student in [CE or GEO or EEB or WRS or FW or BAE or FR or HORT or ENR or LA or SRSE] or instr consent ; Credit will not be granted if credit has been received for: GEO 8601;

Instructor: Paola, Chris

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; prereq [1st yr or 3rd sem] grad student, instr consent ;

Instructor: Lanyon, Scott Merrill

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; prereq [1st yr or 3rd sem] grad student, instr consent ;

Instructor: Cotner, James B

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; prereq [1st yr or 3rd sem] grad student, instr consent ;

Instructor: Spivak, Marla

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; prereq [1st yr or 3rd sem] grad student, instr consent ;

Instructor: Spivak, Marla

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; prereq [1st yr or 3rd sem] grad student, instr consent ;

Instructor: Simons, Andrew M.

Description: Student may contact the instructor or department for information.

EEB 8980 Seminar on Current Topics

S-N only, 1 credit(s), max credits 30, 10 completions allowed; prereq [1st yr or 3rd sem] grad student, instr consent ;

Instructor: Simons,Andrew M.

Description: Student may contact the instructor or department for information.

EEB 8990 Graduate Seminar

1-3 credit(s), max credits 30, 10 completions allowed; prereq instr consent ;

Instructor: Weiblen,George D

Description: Student may contact the instructor or department for information.

EEB 8990 Graduate Seminar

1-3 credit(s), max credits 30, 10 completions allowed; prereq instr consent ;

Instructor: Tiffin,Peter L

Description: Student may contact the instructor or department for information.

Economics

4-101 Hanson Hall

ECON 1101 Principles of Microeconomics

4 credit(s); prereq knowledge of plane geometry and advanced algebra credit will not be granted if credit received for: 1104, 1111, ApEc 1101; Credit will not be granted if credit has been received for: APEC 1101; Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core;

Instructor: STAFF

Description: This is an introductory course in Economics. Topics covered include the behavior of consumers, firms, and markets in the domestic and world economy. Interdependencies in the global economy, and effects of global linkages on individual decisions.

Style: 75% Lecture. in discussion section

ECON 1102 Principles of Macroeconomics

4 credit(s); prereq [1101 or equiv], knowledge of plane geometry and advanced algebra credit will not be granted if credit received for: 1105, 1112, ApEc 1102; Credit will not be granted if credit has been received for: APEC 1102; Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core;

Instructor: STAFF

Description: This is an introductory course in Economics. It includes the study of macroeconomic indicators; the role of money; role of fiscal and monetary policy; international trade; interdependencies among nations.

Style: 75% Lecture. discussion section

ECON 1905 Freshman Seminar: Strategic Thinking and Social Interaction

A-F only, 3 credit(s); prereq freshman;

Instructor: Sher,Itai

Description: "Strategic Thinking and Social Interaction" Game Theory is a field which studies strategic interaction. This may be important in any situation where a group of people interact and the decisions made by each person depend on the decisions made by others. Game Theory is relevant in many situations including nuclear deterrence and warfare, the theory of auctions, the analysis of different voting systems, political campaigns, competition among firms, and the formation of social networks. Game Theory is also a useful tool for studying concepts which are relevant to many social interactions such as reputation, threats, promises, cooperation, coordination, and incentives. This course will provide an informal introduction to the basic concepts of Game Theory, which does not require any mathematics. We will read and discuss articles about the many areas in which these notions apply.

ECON 3101 Intermediate Microeconomics

4 credit(s); prereq 1101, 1102 or equiv, Math 1271 or equiv; Credit will not be granted if credit has been received for: APEC 3001;

Instructor: STAFF

Description: This is a required course for Economics majors, and is a prerequisite for most upper-division Economics courses. It essentially provides you with tools necessary to work with economic theory. Students should have completed Calculus I successfully PRIOR to taking this course. Students are NOT permitted to take Calc I concurrently. The course includes the study of consumer and producer behavior under competitive and monopolistic conditions; factors influencing production, price, and other decisions of the firm; applications of the theory.

Style: 100% Lecture.

Exam Format: problems, short essays

ECON 3102 Intermediate Macroeconomics

4 credit(s); prereq 3101 or equiv; Credit will not be granted if credit has been received for: APEC 3006;

Instructor: STAFF

Description: This is one of the two basic tool courses for Economics majors. The prerequisite is Econ 3101, which students must have completed successfully PRIOR to taking this course. Students are NOT permitted to take both concurrently, or take Econ 3102 prior to Econ 3101. The course includes determinants of national income, employment, and price level; effects of fiscal and monetary policies; with an emphasis on a general equilibrium approach. Economic growth is also discussed.

Style: 100% Lecture.

Exam Format: Problems and short essays

ECON 3951 Major Project Seminar

A-F only, 2 credit(s); prereq [3101 or 3102 or equiv], fr writing requirement satisfied;

Instructor: STAFF

Description: A senior project is a requirement for the BA and BA-Q degrees in Economics. Students work with the instructor to produce a significant piece of written work in Economics. Criteria for the paper: to demonstrate critical thinking in Economics; collection and analysis of data; economic analysis and effective interpretation of results. Should be modeled as an economics journal article. Check the Undergraduate Handbook (web version or hard copy) on the four ways to satisfy this requirement.

Style: No formal meeting time. Please contact the instructor via email.

Grading: 100% reports/papers.

ECON 3960 Topics in Economics

3 credit(s), max credits 6; prereq 1101, 1102 or equiv;

Instructor: STAFF

Description: The Chinese Economy. The course includes the historical and economic development of China with emphasis on economic indicators. Role of China in the world economy today.

Style: 90% Lecture, 10% Discussion.

Exam Format: Essay and short problems

ECON 4033 Current Economic Issues

3 credit(s), max credits 6; prereq 3101, 3102 or equiv; Credit will not be granted if credit has been received for: ECON 3033;

Instructor: Kehoe,Timothy J

Description: Current Economic Issues: Financial Crises and Depressions Fall 2009, Instructor: Professor Timothy Kehoe This course will study financial crises that have occurred in different countries at different times over the past century or so. We will employ economic data, analytical models, and historical studies to answer such questions as: What caused these financial crises? Why did some of these crises lead to great depressions and others not? This short essay discusses some of the major issues that the course will deal with: Gonzalo Fernandez de Cordoba and Timothy J. Kehoe, "The Current Financial Crisis: What Should We Learn from the Great Depressions of the Twentieth Century?" Federal Reserve Bank of Minneapolis, Research Department Staff Report 421, February 2009.

ECON 4100W Undergraduate Writing in Economics

A-F only, 1 credit(s), max credits 2; prereq 3101, [concurrent enrollment in 4831 or concurrent enrollment in economics honors course], instr consent; Meets CLE req of Writing Intensive;

Instructor: STAFF

Description: Students can sign up for this one-credit course if they are concurrently registered for an Economics Honors course or for Econ 4831. This will enable them to make the honors course writing intensive. Students receive the assignment from the instructor of the honors course. The Econ 4100W TA works with students to help them write the paper. Students turn in various drafts to the TA and receive feedback on every assignment. The final product is the completed paper.

Grading: 100% reports/papers.

ECON 4109H Honors Course: Game Theory and Applications
4 credit(s); prereq 3101, 3102 or equiv, Math 1271-1272 or equiv;

Instructor: STAFF

Description: This is recommended for Economics majors with a good mathematical background. Normal and extensive forms of Games and applications of games.

Style: 90% Lecture, 10% Discussion.

ECON 4161 Microeconomic Analysis

2 credit(s); prereq [3101 or 5151 or equiv], Math 2243, Math 2263, instr consent;

Instructor: STAFF

Description: This is offered concurrently with Econ 8001 (a Ph.D micro theory course for graduate students from other departments). Please contact the instructor before registering for the course. You MUST have completed all prerequisites. This is a seven week mini-semester course worth two credits.

Style: 75% Lecture. in recitation section

ECON 4162 Microeconomic Analysis

A-F only, 4 credit(s); prereq 4161, instr consent;

Instructor: STAFF

Description: This is offered concurrently with Econ 8002 (a Ph.D micro theory course for graduate students from other departments). Please contact the instructor before registering for the course. You MUST have completed all prerequisites. This is a seven week mini-semester course worth two credits.

Style: 75% Lecture. in recitation section

ECON 4165 Macroeconomic Theory

2 credit(s); prereq [3102, [[Math 2243, Math 2263] or equiv]], instr consent;

Instructor: STAFF

Description: This is offered concurrently with Econ 8105 (a Ph.D macro theory course for economics graduate students). Please contact the instructor before registering for the course. You MUST have completed all prerequisites. This is a seven week mini-semester course worth two credits.

Style: 75% Lecture. in recitation section

ECON 4166 Macroeconomic Theory

2 credit(s); prereq 4165, instr consent;

Instructor: STAFF

Description: This is offered concurrently with Econ 8106 (a Ph.D macro theory course for economics graduate students). Please contact the instructor before registering for the course. You MUST have completed all prerequisites. This is a seven week mini-semester course worth two credits.

Style: 75% Lecture. in recitation section

ECON 4211 Principles of Econometrics

4 credit(s); prereq [[1101, 1102] or equiv], Math 2243 [or equiv], [[Stat 3021, Stat 3022] or equiv], familiarity with computers;

Instructor: STAFF

Description: This is a required course for Economics B.A.-Quant majors. Students must have successfully completed all prerequisites PRIOR to taking this course. The course includes regression analysis, estimation procedures, and

computer applications.

Style: 75% Lecture. Recitation discussion

Exam Format: problems

ECON 4261 Introduction to Econometrics

A-F only, 4 credit(s); prereq [3101 or equiv], [[Math 1271, Math 1272] or equiv], Math 2243, Math 2263, [[Stat 4101, Stat 4102] or [Stat 5101, Stat 5102]]; Math 4242 strongly recommended;

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 4313 The Russian Economy

3 credit(s); prereq 1101, 1102 or equiv;

Instructor: STAFF

Description: Main features of the Soviet economy, economic development from 1971 to mid-1980s. Collapse of the Soviet Union in 1991. Economic reforms adopted by Russia. The CIS states. Current Russian economy.

Style: 90% Lecture, 10% Discussion.

Exam Format: essay and problems

ECON 4331W Economic Development

3 credit(s); prereq 3101, 3102 or equiv; Credit 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); prereq 3101, 3102 or equiv; Credit will not be granted if credit has been received for: ECON 4307; Meets CLE req of International Perspect Theme;

Instructor: STAFF

Description: Study of various economic systems, functions and comparisons. Post-socialist transitions in Eastern Europe, Russia, Asia, and China. Economic reforms. Case studies of various countries.

Style: 90% Lecture, 10% Discussion.

Exam Format: essay, short problems

ECON 4401 International Economics

3 credit(s); prereq [[1101, 1102] or equiv], not open to econ majors; Meets CLE req of International Perspect Theme;

Instructor: STAFF

Description: Not for Economics majors. Includes material on international trade and international finance. Theories of trade, trade restrictions, commercial policy. Exchange rates, international monetary systems.

Style: 90% Lecture, 10% Discussion.

Exam Format: problems, short essays

ECON 4431W International Trade

3 credit(s); prereq 3101, 3102 or equiv; Meets CLE req of International Perspect Theme; meets CLE req of Writing Intensive;

Instructor: Sahi, Simran

Description: Offered mainly for Economics majors, though we happily accept other students if they have successfully completed the prerequisites PRIOR to taking the course. The course studies international trade including trade theories, trade and growth, trade restrictions, regional trading blocs, protection, and regional integration. This is a writing intensive course, and students need at least a C in the paper to pass the course. Real world applications and examples abound. URL address will be

available later.

Style: 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 4531 Labor Economics

3 credit(s); prereq 3101, 3102 or equiv; Credit will not be granted if credit has been received for: ECON 3501;

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 4631H Honors Course: Industrial Organization and Antitrust Policy

4 credit(s); prereq 3101 or equiv; Credit will not be granted if credit has been received for: ECON 4631;

Instructor: STAFF

Description: Relation between market structure, economic efficiency, and welfare. Economic origins of monopoly and other restraints on competition. Purpose and effects of antitrust and related legislation.

Style: 95% Lecture, 5% Discussion.

ECON 4721 Money and Banking

3 credit(s); prereq 3101 or equiv; Credit will not be granted if credit has been received for: ECON 3701;

Instructor: STAFF

Description: Theories of money demand and money supply. Financial intermediation, banking, nonbank financial institutions, bank regulation. Role of the Federal Reserve System. Monetary policy.

Style: 95% Lecture, 5% Discussion.

ECON 4721H Honors Course: Money and Banking

4 credit(s); prereq [3101 or equiv]; Math 1271; 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); prereq 3101, 3102 or equiv;

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 4751 Financial Economics

3 credit(s); prereq 3101 or equiv, Math 1271 or equiv, 1 sem statistics; Credit will not be granted if credit has been received for: ECON 4751H;

Instructor: STAFF

Description: Financial decisions of firms and investors. Determination of interest rates and asset prices. Role of risk and uncertainty. Emphasis on economic models rather than details of financial institutions.

Style: 95% Lecture, 5% Discussion.

Exam Format: problems

ECON 4751H Honors Course: Financial Economics

4 credit(s); prereq 3101, [3102 or equiv], [Math 1271 or equiv], [Stat 3011 or equiv]; Credit will not be granted if credit has been received for: ECON 4751;

Instructor: STAFF

Description: Efficiency of financial markets. Theoretical concepts, empirical evidence.

Style: 95% Lecture, 5% Discussion.

Exam Format: Problem solving, essay

ECON 4821 Public Economics

3 credit(s); prereq Credit will not be granted if credit has been received for: ECON 3801; prereq 3101, 3102 or equiv; Credit will not be granted if credit has been received for: ECON 3801;

Instructor: STAFF

Description: Different views of the role of government in the economy. Effects of tax policies and spending policies. Optimal policies. Consumer and producer responses to government policies. Applications to the U.S. government. Some case studies.

Style: 95% Lecture, 5% Discussion.

Exam Format: Short essays, problem solving

ECON 4831 Cost-Benefit Analysis

3 credit(s); prereq 3101 or equiv; Credit will not be granted if credit has been received for: ECON 4611H;

Instructor: STAFF

Description: Principles for evaluating benefits and costs of public projects or programs. Issues concerned with definition of benefits and costs. Rate of return, rate of discount. Market imperfections, risk, and uncertainty. Case studies.

Style: 95% Lecture, 5% Discussion.

Exam Format: Essay; problem solving

ECON 4960 Topics in Economics

A-F only, 3 credit(s), max credits 6; prereq [3101 or 3102 or equiv], MATH 1271; may change based on topic;

Instructor: Richter, Marcel K

Description: Topics in Social Welfare Economics

ECON 4960 Topics in Economics

A-F only, 3 credit(s), max credits 6; prereq [3101 or 3102 or equiv], MATH 1271; may change based on topic;

Instructor: Guvenen, Fatih

Description: Course Title: Modern Economic Growth This course will provide an introduction to the study of economic growth. After an introduction to the subject, the first part of the course reviews the "proximate determinants" of income levels and growth rates - factor accumulation, technology, and efficiency - and discuss the relevant theoretical models. The second part looks at the "fundamental determinants" of differences in income levels and growth rates across countries. A final section of the course discusses the effects of globalization---both as increased international trade in goods, and as increased financial integration of world financial markets---on growth and cross-country income inequality. Required textbook: Charles Jones, Introduction to Economic Growth, Norton. Additional reading: William Easterly, The Elusive Quest for Growth.

ECON 4993 Directed Study

1-4 credit(s), max credits 4, 1 completion allowed; prereq For honors thesis, instr consent ;

Instructor: STAFF

Description: This is for economics honors theses only.

ECON 5890 Economics of the Health-Care System

A-F only, 3 credit(s); prereq [3101, 3102] or instr consent; Credit will not be granted if credit has been received for: PUBH 6832;

Instructor: Nyman, John A.

Description: This course is intended to give the student an understanding of and appreciation for the traditional issues in health economics. Historical, theoretical and empirical perspectives are applied to the various topics covered: the role of prices, the production of health, the demand for health care, the demand for health insurance, the health insurance market and managed care, the market for physicians' services, production and cost of health care in hospitals and nursing homes, labor issues, pharmaceuticals, cost effectiveness

analysis, equity and efficiency, role of government in the health economy, international comparisons, Medicaid and Medicare, and national health insurance and reform. The course relies on the use of conventional microeconomic analytical tools. Students should also have a basic knowledge of fundamental descriptive and analytical statistics. Students will not be expected to know calculus.

ECON 8001 Microeconomic Analysis

2 credit(s); prereq 5151 or equiv, Math 2243, Math 2263 or equiv or instr consent;

Instructor: Hurley, Terry

Description: Student may contact the instructor or department for information.

ECON 8002 Microeconomic Analysis

2 credit(s); prereq 8001;

Instructor: Hurley, Terry

Description: Student may contact the instructor or department for information.

ECON 8101 Microeconomic Theory

2 credit(s); prereq 5151 or equiv, Math 2243 or equiv, concurrent enrollment Math 5615 or concurrent registration in Math 8601, grad econ major or instr consent;

Instructor: Werner, Jan

Description: Student may contact the instructor or department for information.

ECON 8102 Microeconomic Theory

2 credit(s); prereq 8101, concurrent enrollment Math 5615 or concurrent enrollment Math 8601, grad econ major or instr consent;

Instructor: Allen, Beth Elaine

Description: Student may contact the instructor or department for information.

ECON 8105 Macroeconomic Theory

2 credit(s); prereq 5152 or equiv, Math 2243, Math 2263 or equiv or instr consent;

Instructor: Kehoe, Timothy J

Description: Student may contact the instructor or department for information.

ECON 8106 Macroeconomic Theory

2 credit(s); prereq 8105;

Instructor: Perri, Fabrizio

Description: Student may contact the instructor or department for information.

ECON 8117 Noncooperative Game Theory

2 credit(s); prereq Math 5616 or equiv or instr consent;

Instructor: Sher, Itai

Description: Student may contact the instructor or department for information.

ECON 8119 Cooperative Game Theory

2 credit(s); prereq 8104, Math 5616 or equiv or instr consent;

Instructor: Allen, Beth Elaine

Description: Student may contact the instructor or department for information.

ECON 8191 Workshop in Mathematical Economics

1-3 credit(s), max credits 10, 10 completions allowed; prereq 8104 or instr consent ;

Instructor: Allen, Beth Elaine

Description: Student may contact the instructor or department for information.

ECON 8205 Applied Econometrics

2 credit(s); prereq Math 4242 or equiv, concurrent enrollment Econ 8101, concurrent enrollment Econ 8105, concurrent enrollment Stat 5101 or instr consent;

Instructor: Petrin, Amil Kenneth

Description: Student may contact the instructor or department

for information.

ECON 8206 Applied Econometrics

2 credit(s); prereq 8205, concurrent enrollment 8102, concurrent enrollment 8106, concurrent enrollment Stat 5101 or instr consent;

Instructor: Park, Minjung

Description: Student may contact the instructor or department for information.

ECON 8311 Economic Growth and Development

2 credit(s); prereq 8104, 8106 or instr consent;

Instructor: Luttmmer, Erzo

Description: Student may contact the instructor or department for information.

ECON 8312 Economic Growth and Development

2 credit(s); prereq 8311 or instr consent;

Instructor: Guvenen, Fatih

Description: Student may contact the instructor or department for information.

ECON 8391 Workshop in Economic Growth and Development

1-3 credit(s), max credits 10, 10 completions allowed; prereq instr consent ;

Instructor: Jones, Larry

Description: Student may contact the instructor or department for information.

ECON 8401 International Trade and Payments Theory

2 credit(s); prereq 8103, 8105 or instr consent;

Instructor: Kehoe, Timothy J

Description: Student may contact the instructor or department for information.

ECON 8402 International Trade and Payments Theory

2 credit(s); prereq 8401 or instr consent;

Instructor: Kehoe, Patrick James

Description: Student may contact the instructor or department for information.

ECON 8491 Workshop in Trade and Development

1-3 credit(s), max credits 10, 10 completions allowed; prereq instr consent ;

Instructor: Kehoe, Timothy J

Description: Student may contact the instructor or department for information.

ECON 8501 Wages and Employment

2 credit(s); prereq 8102, 8106 or instr consent;

Instructor: Guvenen, Fatih

Description: Student may contact the instructor or department for information.

ECON 8502 Wages and Employment

2 credit(s); prereq 8501 or instr consent;

Instructor: Fogli, Alessandra

Description: Student may contact the instructor or department for information.

ECON 8581 Advanced Topics in Labor Economics

2 credit(s), max credits 4; prereq 8502 or instr consent;

Instructor: Rios-Rull, Jose Victor

Description: Student may contact the instructor or department for information.

ECON 8601 Industrial Organization and Government Regulation

2 credit(s); prereq 8102 or instr consent;

Instructor: Holmes, Thomas Joseph

Description: Student may contact the instructor or department for information.

ECON 8602 Industrial Organization and Government Regulation

2 credit(s); prereq 8601 or instr consent;

Instructor: Park,Minjung

Description: Student may contact the instructor or department for information.

ECON 8691 Workshop in Applied Microeconomics

1-3 credit(s), max credits 10, 10 completions allowed; prereq instr consent ;

Instructor: Holmes,Thomas Joseph

Description: Student may contact the instructor or department for information.

ECON 8691 Workshop in Applied Microeconomics

1-3 credit(s), max credits 10, 10 completions allowed; prereq instr consent ;

Instructor: Petrin,Amil Kenneth

Description: Student may contact the instructor or department for information.

ECON 8701 Monetary Economics

2 credit(s); prereq 8103, 8106 or instr consent;

Instructor: Weber,Warren E

Description: Student may contact the instructor or department for information.

ECON 8702 Monetary Economics

2 credit(s); prereq 8701 or instr consent;

Instructor: Kehoe,Patrick James

Description: Student may contact the instructor or department for information.

ECON 8704 Financial Economics

2 credit(s); prereq 8103, 8106 or instr consent;

Instructor: Werner,Jan

Description: Student may contact the instructor or department for information.

ECON 8705 Financial Economics

2 credit(s); prereq 8704 or instr consent;

Instructor: Mc Grattan,Ellen Rose

Description: Student may contact the instructor or department for information.

ECON 8801 Public Economics

2 credit(s); prereq 8103, 8106 or instr consent;

Instructor: Jones,Larry

Description: Student may contact the instructor or department for information.

ECON 8891 Workshop in Public Economics and Policy

1-3 credit(s), max credits 10, 10 completions allowed; prereq instr consent;

Instructor: Kocherlakota,Narayana

Description: Student may contact the instructor or department for information.

Education and Human Development

110 Wulling Hall

EDHD 1920 CEHD Special Topics: American Reads: Tutoring, Literacy & Engagement

1 credit(s), max credits 3, 1 completion allowed;

Instructor: Miller,Rosemary F

Description: America Reads: Tutoring, Literacy, and Engagement is a 1 credit course that is required for all first and second year America Reads Tutors. The course consists of an initial New Tutor Orientation, three 2-hour class sessions, and corresponding community engagement assignments which will take place within the greater community. Fall Semester?s topics focus on pertinent issues related to the tutoring experience and which contribute to an overall understanding of the Twin Cities community. Topics include- ?Immigration in the Twin Cities?,

?Lesson Planning and Choosing Appropriate Children?s Books?, and ?Developing Reading Comprehension?. Participation in this class will assist students in becoming more proactive, competent tutors and more aware, engaged community members. Grades will be awarded based on attendance, in-class participation, and successful completion of all journal and community engagement assignments. America Reads supervisor?s permission needed to register.

EDHD 1920 CEHD Special Topics: American Reads: Tutoring, Literacy & Engagement

1 credit(s), max credits 3, 1 completion allowed;

Instructor: Miller,Rosemary F

Description: America Reads: Tutoring, Literacy, and Engagement is a 1 credit course that is required for all first and second year America Reads Tutors. The course consists of an initial New Tutor Orientation, three 2-hour class sessions, and corresponding community engagement assignments which will take place within the greater community. Fall Semester?s topics focus on pertinent issues related to the tutoring experience and which contribute to an overall understanding of the Twin Cities community. Topics include- ?Immigration in the Twin Cities?, ?Lesson Planning and Choosing Appropriate Children?s Books?, and ?Developing Reading Comprehension?. Participation in this class will assist students in becoming more proactive, competent tutors and more aware, engaged community members. Grades will be awarded based on attendance, in-class participation, and successful completion of all journal and community engagement assignments. America Reads supervisor?s permission needed to register.

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EDHD 3001 Exploring the Teaching Profession I

A-F only, 2 credit(s); prereq DirecTrack to Teaching program or college consent ;

Instructor: Stone,Karla Rae

Description: Student may contact the instructor or department for information.

EDHD 5001 Learning, Cognition, and Assessment

3 credit(s); prereq MEd/initial licensure student or CLA music ed or preteaching major or instr consent; psych course recommended; Credit will not be granted if credit has been received for: EPSY 3119;

Instructor: Samuels,S Jay

Description: The purpose of this course is to help pre-service teachers learn how to use psychology to improve all aspects of instruction.

Style: 50% Lecture, 50% Discussion.

Grading: 33% mid exam, 33% final exam, 33% special projects.

Exam Format: Multiple choice

EDHD 5001 Learning, Cognition, and Assessment

3 credit(s); prereq MEd/initial licensure student or CLA music ed or preteaching major or instr consent; psych

course recommended; Credit will not be granted if credit has been received for: EPSY 3119;

Instructor: Varma,Keisha

Description: The purpose of this course is to help pre-service teachers learn how to use psychology to improve all aspects of instruction.

Style: 50% Lecture, 50% Discussion.

Grading: 33% mid exam, 33% final exam, 33% special projects.

Exam Format: Multiple choice

Educational Policy and Administration

330 Wulling Hall

EDPA 1301W Personal Leadership in the University

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: PA 1961W; Meets CLE req of Writing Intensive;

Instructor: Duenes,Michael

Description: Student may contact the instructor or department for information.

EDPA 1301W Personal Leadership in the University

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: PA 1961W; Meets CLE req of Writing Intensive;

Instructor: Christopherson,Christen Ruth

Description: This introductory level course presents leadership using a personal leadership perspective and framework. Students taking this course will have the opportunity to examine their own views on leadership, explore the differences between personal and positional leadership, study characteristics of effective leadership and learn about the importance of personal development.

Style: 100% Web Based. Web-based work includes discussion forum and 2 student presentations.

Grading: 50% reports/papers, 15% reflection paper, 10% in-class presentation, 25% class participation.

EDPA 1301W Personal Leadership in the University

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: PA 1961W; Meets CLE req of Writing Intensive;

Instructor: Vang-Lo,Ah

Description: Student may contact the instructor or department for information.

EDPA 1301W Personal Leadership in the University

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: PA 1961W; Meets CLE req of Writing Intensive;

Instructor: Fredrickson,Brian Steven

Description: This introductory level course presents leadership using a personal leadership perspective and framework. Students taking this course will have the opportunity to examine their own views on leadership, explore the differences between personal and positional leadership, study characteristics of effective leadership and learn about the importance of personal development.

EDPA 1301W Personal Leadership in the University

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: PA 1961W; Meets CLE req of Writing Intensive;

Instructor: Shultz,Joseph Brian

Description: This introductory level course presents leadership using a personal leadership perspective and framework. Students taking this course will have the opportunity to examine their own views on leadership, explore the differences between personal and positional leadership, study characteristics of effective leadership and learn about the importance of personal development.

EDPA 1301W Personal Leadership in the University

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: PA 1961W; Meets CLE req of Writing Intensive;

Instructor: Watkins Soderlund,Mandi Mae

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

EDHD 5003 Developmental and Individual Differences in Educational Contexts

A-F only, 2 credit(s); prereq Jr or sr or post-bac or MEd/initial licensure or CLA music ed or preteaching major or FOE or agriculture or kinesiology or instr consent ;

Instructor: Rodgerson,Richard W

Description: Overview of developmental and individual differences of children and adolescents in educational contexts; emphasis on a dynamic systems, evolutionary (selectionist), and ecological perspectives; development transitions in childhood and adolescence; interactions between the student, environment, and task; and accommodations and adaptations for students in special education.

Grading: 100% reports/papers.

EDHD 5004 Teaching Students With Special Needs in Inclusive Settings

A-F only, 2 credit(s); prereq Teacher preparation program in [CEHD or music education or agriculture education or DirecTrack] or instr consent ;

Instructor: Seifert PhD,Kathy

Description: Student may contact the instructor or department for information.

EDHD 5005 School and Society

A-F only, 2 credit(s); prereq Jr or sr or MEd/initial licensure student or CLA music ed major or preteaching major or instr consent ;

Instructor: Howell,Monica Ruth

Description: Student may contact the instructor or department for information.

EDHD 5005 School and Society

A-F only, 2 credit(s); prereq Jr or sr or MEd/initial licensure student or CLA music ed major or preteaching major or instr consent ;

Instructor: Opsal,Christen Lynn

Description: Student may contact the instructor or department for information.

EDHD 5005 School and Society

A-F only, 2 credit(s); prereq Jr or sr or MEd/initial licensure student or CLA music ed major or preteaching major or instr consent ;

Instructor: Tornberg,Bob

Description: Student may contact the instructor or department for information.

EDHD 5005 School and Society

A-F only, 2 credit(s); prereq Jr or sr or MEd/initial licensure student or CLA music ed major or preteaching major or instr consent ;

Instructor: Demerath,Peter

Description: Student may contact the instructor or department for information.

EDHD 5009 Human Relations: Applied Skills for School and Society

A-F only, 1 credit(s); prereq MEd/init lic or CLA music ed or preteaching or instr consent;

Instructor: Goh PhD,Michael P.

Description: Student may contact the instructor or department for information.

personal and positional leadership, study characteristics of effective leadership and learn about the importance of personal development.

EDPA 1301W Personal Leadership in the University

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: PA 1961W; Meets CLE req of Writing Intensive;

Instructor: Holleran,Lynn K

Description: This introductory level course presents leadership using a personal leadership perspective and framework.

Students taking this course will have the opportunity to examine their own views on leadership, explore the differences between personal and positional leadership, study characteristics of effective leadership and learn about the importance of personal development.

EDPA 1301W Personal Leadership in the University

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: PA 1961W; Meets CLE req of Writing Intensive;

Instructor: Hellstrom,David P

Description: This 1000 level course introduces leadership using a personal leadership perspectives and frameworks. Students taking this course will have the opportunity to examine their own views on leadership, explore the differences between personal and positional leadership, study characteristics of leaders within the University of Minnesota and learn about the importance of personal development.

EDPA 1301W Personal Leadership in the University

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: PA 1961W; Meets CLE req of Writing Intensive;

Instructor: Ellsworth,Chad

Description: This introductory level course presents leadership using a personal leadership perspective and framework.

Students taking this course will have the opportunity to examine their own views on leadership, explore the differences between personal and positional leadership, study characteristics of effective leadership and learn about the importance of personal development.

Style: 20% Lecture, 5% Film/Video, 50% Discussion, 20% Small Group Activities, 5% Student Presentation.

Grading: 40% reports/papers, 20% reflection paper, 20% in-class presentation, 20% class participation.

EDPA 3302 Leadership, You, and Your Community

A-F only, 3 credit(s); prereq [1301W or PA 1961W], grade of at least C, [soph or at least 60 cr]; Credit will not be granted if credit has been received for: PA 3961;

Instructor: Christopherson,Christen Ruth

Description: This course will examine leadership and leadership capacities within the context of social change and public work.

Students taking this course will have the opportunity to examine their own views of leadership and social change, learn about leadership theory and core concepts of Public Achievement, and apply knowledge to practice utilizing the Public Achievement model. Particular attention is given to group leadership and the effectiveness of groups and organizations accomplishing change. There are a few aspects to the content of this course which make it unique when compared to traditional collegiate and leadership instruction: As a method of examining leadership capacities within a social change movement, this class will utilize the history, current status, and stories about the issue of poverty as a context. As the theme for the course, many portions of the class content and discussion will explore the issue of poverty. This method is meant as an example of public leadership happening within the intricacies of a social movement and issue.

Another major content component of this course is the Public Achievement model. A little less than half of the assigned class days will be dedicated to working within smaller groups (encompassing about 1/3 of the class in each) on a Public Achievement project. For these projects, each of the instructors, in addition to a teaching assistant, will be assigned as a coach for one Public Achievement group. More information about

Public Achievement is available in the subsequent pages of this syllabus.

Style: 10% Lecture, 5% Film/Video, 20% Discussion, 50% Small Group Activities, 10% Student Presentation, 5% Guest Speakers. The major portion of this class is the Public Achievement process.

Grading: 20% final exam, 20% reports/papers, 5% quizzes, 5% attendance, 10% journal, 35% in-class presentation, 5% class participation.

Exam Format: Final exam is a take-home written essay.

EDPA 3302 Leadership, You, and Your Community

A-F only, 3 credit(s); prereq [1301W or PA 1961W], grade of at least C, [soph or at least 60 cr]; Credit will not be granted if credit has been received for: PA 3961;

Instructor: Asmundson,Aaron R

Description: This course will examine leadership and leadership capacities within the context of social change and public work. Students taking this course will have the opportunity to examine their own views of leadership and social change, learn about leadership theory and core concepts of Public Achievement, and apply knowledge to practice utilizing the Public Achievement model. Particular attention is given to group leadership and the effectiveness of groups and organizations accomplishing change. There are a few aspects to the content of this course which make it unique when compared to traditional collegiate and leadership instruction: As a method of examining leadership capacities within a social change movement, this class will utilize the timeline, history, current status, and stories of the HIV/AIDS pandemic as a context. As the theme for the course, many portions of the class content and discussion will explore the HIV/AIDS pandemic. This method is meant as an example of public leadership happening within the intricacies of a social movement and issue. Another major content component of this course is the Public Achievement model. A little less than half of the assigned class days will be dedicated to working within smaller groups (encompassing about 1/3 of the class in each) on a Public Achievement project. For these projects, the instructor--in addition to two teaching assistants--will be assigned as a coach for one Public Achievement group. More information about Public Achievement is available in the subsequent pages of this syllabus.

EDPA 3402 Leadership Minor: Field Experience

A-F only, 3 credit(s); prereq [3302W or PA 3961W] with grade of at least C; Credit will not be granted if credit has been received for: PA 3971;

Instructor: Werner,Linnette

Description: Student may contact the instructor or department for information.

EDPA 3402 Leadership Minor: Field Experience

A-F only, 3 credit(s); prereq [3302W or PA 3961W] with grade of at least C; Credit will not be granted if credit has been received for: PA 3971;

Instructor: Nobbe,June Elly

Description: Student may contact the instructor or department for information.

EDPA 4303W Leadership for Global Citizenship

A-F only, 3 credit(s); prereq [3402 or PA 3971]; Credit will not be granted if credit has been received for: PA 4961W; Meets CLE req of Writing Intensive;

Instructor: Atwood,Susan J

Description: This course, the capstone academic experience in the Undergraduate Leadership Minor sequence, is designed to focus student learning that has been developed in earlier leadership courses. Leadership theory, community building, social change, and interdisciplinary approaches to complex global issues will be the main components in this course. Students will be expected to demonstrate skill in analysis of pertinent literature, write with purpose and clarity, appreciate intense internships, and lead thoughtful group study. In this course, students will finalize portfolios and submit other scholarly products to demonstrate a mature understanding of personal and positional leadership in a changing global context.

Style: 10% Lecture, 10% Film/Video, 40% Discussion, 25% Small Group Activities, 10% Student Presentation, 5% Guest Speakers. 11.15-12.30pm Tues and Thurs
Grading: 25% reports/papers, 25% special projects, 25% written homework, 10% attendance, 5% in-class presentation, 10% class participation.

instructors. The course will be web enhanced but the URL is not yet available.

Style: 40% Lecture, 30% Discussion. field research
Grading: 60% reports/papers, 40% other evaluation. team project
Exam Format: Essay

EDPA 5001 Formal Organizations in Education

3 credit(s);

Instructor: Anderson, Melissa S.

Description: This course presents four frameworks that can be used for understanding organizations, how they work, and how people in them behave. It then branches out to other organizational topics such as conflict, communication and leadership. The class sessions combine lectures and interactive exercises. Most people complete the course with greatly enhanced insight as to how organizations--especially schools, colleges, and universities--work. The course is geared toward graduate students.

Style: 25% Lecture, 50% Discussion. in-class projects

Grading: 20% final exam, 65% reports/papers, 15% class participation.

Exam Format: essay

EDPA 5080 Special Topics: Educational Policy and Administration

1-3 credit(s), max credits 24, 24 completions allowed;

Instructor: Harkins, Arthur M

Description: Student may contact the instructor or department for information.

EDPA 5080 Special Topics: Educational Policy and Administration

1 credit(s), max credits 24, 24 completions allowed;

Instructor: Harkins, Arthur M

Description: Student may contact the instructor or department for information.

EDPA 5080 Special Topics: Educational Policy and Administration

1-3 credit(s), max credits 24, 24 completions allowed;

Instructor: Harkins, Arthur M

Description: Student may contact the instructor or department for information.

EDPA 5041 Sociology of Education

3 credit(s); Credit will not be granted if credit has been received for: SOC 5455;

Instructor: Jones, Lisa Marie

Description: Student may contact the instructor or department for information.

EDPA 5080 Special Topics: Educational Policy and Administration

1-3 credit(s), max credits 24, 24 completions allowed;

Instructor: Harkins, Arthur M

Description: Student may contact the instructor or department for information.

EDPA 5048 Cross-Cultural Perspectives on Leadership

3 credit(s);

Instructor: Paige, R Michael

Description: Intensive workshop introduces participants to cultural variables of leadership that influence functioning of cross-cultural groups. Methods include lectures, case studies, discussion, problem-solving exercises and simulations.

EDPA 5080 Special Topics: Educational Policy and Administration

1 credit(s), max credits 24, 24 completions allowed;

Instructor: Harkins, Arthur M

Description: Student may contact the instructor or department for information.

EDPA 5048 Cross-Cultural Perspectives on Leadership

3 credit(s);

Instructor: Fry, Gerald Walton

Description: Intensive workshop introduces participants to cultural variables of leadership that influence functioning of cross-cultural groups. Methods include lectures, case studies, discussion, problem-solving exercises and simulations.

EDPA 5080 Special Topics: Educational Policy and Administration

1-3 credit(s), max credits 24, 24 completions allowed;

Instructor: Harkins, Arthur M

Description: Student may contact the instructor or department for information.

EDPA 5048 Cross-Cultural Perspectives on Leadership

3 credit(s);

Instructor: Demerath, Peter

Description: Student may contact the instructor or department for information.

EDPA 5080 Special Topics: Educational Policy and Administration

1-3 credit(s), max credits 24, 24 completions allowed;

Instructor: Weerts, David J

Description: External Relations and Higher Education This special topics course is designed to introduce students to the study and practice of external relations in higher education. During this nine-week session, students and instructors will examine how colleges and universities build strategic alliances with external partners to the benefit of institutions and the constituencies they serve. The primary stakeholders of interest in this course include state and federal policy makers, corporate partners, community partners, alumni, donors, and foundations. Through case studies, guest speakers, interactive exercises, and large and small group discussions, the course will address topics of institutional branding and public relations, town-gown relations, crisis management, institutional advancement, alumni relations, and federal and state lobbying. Assigned readings draw on literature from organizational theory, public relations, political science, communication theory and institutional advancement research and practice. Upon completing this course, students will be able to: ? Articulate various philosophies and theoretical frameworks that guide external relations research and practice, and how these conceptual pieces inform the development of external relations programs ?Identify and apply best practices of external relations and relate these practices to unique institutional missions and contexts. ?Develop strategies

EDPA 5056 Case Studies for Policy Research

A-F only, 3 credit(s);

Instructor: Fry, Gerald Walton

Description: This course, co-taught by Gerald W. Fry and R. Michael Paige, will introduce students to case study research. This research approach is highly flexible in the units of analysis that can be considered and the wide range of specific quantitative and qualitative research methods that can be applied. We will examine the different genres of case study research (e.g., historical, ethnographic, descriptive, evaluative) and the research methods that are appropriate to those genres. We will examine how case study research has been used in the social and behavioral sciences, with the focus on the field of Education. Students will read and critique case studies, and they will work in teams to conduct and present to the class a small scale example of case study research. The goals of the course are to: 1. familiarize students with case study research genres, units of analysis, and methods. 2. promote students' skills in reading and critiquing case study research. 3. introduce students to the literature on case study research, and, 4. provide students the opportunity to practice conducting case study research. The course text will be Sharan Merriam's book on case study research and a packet of reading selected by the course

for implementing and improving external relations strategies on their own campuses ?Consider future directions for research on external relations topics

EDPA 5080 Special Topics: Educational Policy and Administration: Gender, Education, and International Development

3 credit(s), max credits 24, 24 completions allowed;
Instructor: Vavrus,Frances
Description: Student may contact the instructor or department for information.

EDPA 5087 Seminar: Educational Policy and Administration

1-3 credit(s), max credits 24, 24 completions allowed;
Instructor: STAFF
Description: Shared responsibility of students/instructor in presentation of topics.

EDPA 5095 Problems: Educational Policy and Administration

1-3 credit(s), max credits 24, 24 completions allowed;
Instructor: STAFF
Description: Course or independent study on specific topic within department program emphasis.

EDPA 5096 Internship: Educational Policy and Administration

1-9 credit(s), max credits 24, 24 completions allowed;
Instructor: STAFF
Description: Internship in elementary, secondary, general, or postsecondary administration, or other approved field-related setting.

EDPA 5103 Comparative Education

3 credit(s);
Instructor: Garrett Dikkers,Amy Elizabeth
Description: Student may contact the instructor or department for information.

EDPA 5104 Strategies for International Development of Education Systems

A-F only, 3 credit(s); prereq Grad student;
Instructor: Chapman,David W
Description: Student may contact the instructor or department for information.

EDPA 5141 Global Youth Policy and Leadership: Comparative Youth Policy and Leadership

A-F only, 3 credit(s);
Instructor: Schneider X,Byron J
Description: Comparative approach to study of public responses at global level to youth development and leadership issues. Focus on social systems (such as education, health, employment and recreation), role of individuals, communities, governments and international organizations which are directed to provide programs/services to young persons.

EDPA 5144 Cultural Models, Simulations, and Games

3 credit(s); prereq Upper div or grad student;
Instructor: Harkins,Arthur M
Description: Student may contact the instructor or department for information.

EDPA 5322 Leaders in the Superintendency and Central Office

3 credit(s);
Instructor: Brunner,C Cryss
Description: Role and responsibility of the superintendent in school district. Emphasizes real life experiences, leadership potential as (CEO). Purposes, power, politics, and practices of position. Interplay of internal school forces, external community forces analyzed in multiple contexts. Manifestations of leadership in public, high-profile appointment.

EDPA 5323 Women in Leadership

3 credit(s); prereq Technology access;
Instructor: Brunner,C Cryss
Description: Provides opportunities for male and female

students to consider, learn about, explore, examine, research, think about, and discuss the topic of women in leadership within the context of larger systems and their own lives. Designed to advance the greater aims of supporting equity and equality across all areas of difference.

EDPA 5341 The American Middle School

3 credit(s);
Instructor: Schmidt,Noel Nevin
Description: Focus on the uniqueness of the early adolescent and appropriate learning situations. For educators working with middle-level students.

EDPA 5344 School Law

3 credit(s);
Instructor: Forbes,Paula Gail
Description: Student may contact the instructor or department for information.

EDPA 5346 Politics of Education

A-F only, 3 credit(s); prereq postbac, MEd, or grad student;
Instructor: Alexander,Nicola
Description: Political dimensions of policy formulation/implementation in education. Use of power/influence in shaping educational policies and in resolving conflicts over educational issues. Analysis of consequences/cross-impacts.

EDPA 5361 Project in Teacher Leadership

S-N only, 3 credit(s), max credits 6, 1 completion allowed;
prereq MEd student in Teacher Leadership Program; Credit will not be granted if credit has been received for: CI 5178;
Instructor: Kalnin,Julie
Description: Student may contact the instructor or department for information.

EDPA 5364 Context and Practice of Educational Leadership

A-F only, 3 credit(s);
Instructor: Kalnin,Julie
Description: Student may contact the instructor or department for information.

EDPA 5372 Youth in Modern Society

3 credit(s);
Instructor: Schneider X,Byron J
Description: Youth in advanced societies and as a social entity; functions and roles in industrial society, family, education, politics and government, economy and work, welfare and religion; organizations, social movements, and subcultures; empirical research and cross-cultural perspectives.

EDPA 5374 Leadership for Professional Development

4 credit(s); prereq Postbaccalaureate, at least 3 yrs teaching experience;
Instructor: York-Barr,Jennifer
Description: Designing, implementing, evaluating staff development in PK-12 settings. Research-based standards for effective staff development. Need for embedded time for collaborative learning, evaluating staff/student outcomes.

EDPA 5385 Licensure Seminar: Program Policies and Inclusionary Leadership

S-N only, 1 credit(s);
Instructor: Werner PhD,Ann Zweber
Description: Preparation for licensure program. Program overview, preassessment, reflective practice, APA writing, exit panel review, administrative employment interview.

EDPA 5386 Leadership Portfolio Seminar

S-N only, 1 credit(s); prereq 5385 or Concurrent registration is required (or allowed) in 5385;
Instructor: Latimer,Sally Winifred
Description: Student may contact the instructor or department for information.

EDPA 5388 Leadership for Master(ful) Scheduling

2 credit(s); prereq 5387;

Instructor: Dewey PhD,J. Richard

Description: Strategies for personalizing schools. Building the master schedule. Hands-on "infinite campus student system." " Master schedule is built online."

EDPA 5391 Special Education Law for Leaders

1 credit(s); prereq Designed for students working on licensure in PK-12 administration;

Instructor: Law,David W

Description: Student may contact the instructor or department for information.

EDPA 5396 Field Experience in PK-12 Administration:

Authentic Practice in Leadership

S-N only, 3 credit(s), max credits 12, 4 completions allowed; prereq instr consent ;

Instructor: Dragseth,Kenneth Allen

Description: Student may contact the instructor or department for information.

EDPA 5501 Principles and Methods of Evaluation

3 credit(s); Credit will not be granted if credit has been received for: EPSY 5243;

Instructor: STAFF

Description: Student may contact the instructor or department for information

EDPA 5521 Cost and Economic Analysis in Educational Evaluation

3 credit(s);

Instructor: STAFF

Description: Use and application of cost-effectiveness, cost-benefit, cost-utility, and cost-feasibility in evaluation of educational problems and programs.

EDPA 5701 U.S. Higher Education

3 credit(s);

Instructor: Hendel,Darwin Dale

Description: This course is an introductory survey of U.S. higher education. It addresses both the historical development of, and contemporary issues in, higher education in the United States. The content of the course is organized around the higher education topics in historical and contemporary contexts simultaneously. The outcomes sought for students taking the course include the following: ? Basic knowledge of the system of higher education in the United States; ?Understanding of historical events, including the political, psychological and economic factors that shaped higher education and continues to affect institutions today; ?Sufficient background for subsequent in-depth study in the field of higher education in the United States in the context of changes in higher education across the world; and ?A critical perspective on the higher education literature.

Style: 30% Lecture, 8% Film/Video, 13% Discussion, 15% Small Group Activities, 8% Student Presentation, 3% Field Trips, 8% Guest Speakers, 15% Web Based.

Grading: 60% reports/papers, 10% journal, 5% reflection paper, 10% in-class presentation, 15% class participation.

EDPA 5721 Racial and Ethnic Diversity in Higher Education

2-3 credit(s), max credits 3, 1 completion allowed;

Instructor: Ropers-Huilman,Rebecca Lynn

Description: Student may contact the instructor or department for information.

EDPA 8002 Critical Issues in Contemporary Education

3 credit(s); prereq EdD or PhD student;

Instructor: Magnusson PhD,Deanne L.

Description: Student may contact the instructor or department for information.

EDPA 8011 Doctoral Research Seminar I

S-N only, 1 credit(s); prereq EdPA doctoral student;

Instructor: Anderson,Melissa S.

Description: Student may contact the instructor or department

for information.

EDPA 8013 Doctoral Research Seminar III

S-N only, 1 credit(s); prereq EdPA doctoral student;

Instructor: Magnusson PhD,Deanne L.

Description: Student may contact the instructor or department for information.

EDPA 8020 Leadership: From Theory to Reflective Practice

A-F only, 3 credit(s); prereq [[5001 or equiv], doctoral student] or instr consent;

Instructor: Seashore,Karen Rose

Description: Student may contact the instructor or department for information.

EDPA 8087 Seminar: Educational Policy and Administration

1-3 credit(s), max credits 24, 24 completions allowed;

Instructor: Magnusson PhD,Deanne L.

Description: Student may contact the instructor or department for information.

EDPA 8087 Seminar: Educational Policy and Administration:

Advanced Seminar in Int'l Development Education

1-2 credit(s), max credits 24, 24 completions allowed;

Instructor: Dejaeghere,Joan Geralyn

Description: Student may contact the instructor or department for information.

EDPA 8104 Innovative Systems Thinking in Education and Culture

3 credit(s);

Instructor: Harkins,Arthur M

Description: Student may contact the instructor or department for information.

EDPA 8121 Doctoral Seminar: Comparative and International Development Education

S-N only, 1-6 credit(s), max credits 6, 4 completions allowed; prereq EdPA PhD candidate;

Instructor: Magnusson PhD,Deanne L.

Description: Student may contact the instructor or department for information.

EDPA 8121 Doctoral Seminar: Comparative and International Development Education

S-N only, 1-6 credit(s), max credits 6, 4 completions allowed; prereq EdPA PhD candidate;

Instructor: Dejaeghere,Joan Geralyn

Description: Student may contact the instructor or department for information.

EDPA 8143 Integrative Seminar in Global Youth Policy and Leadership

A-F only, 1 credit(s), max credits 3, 3 completions allowed; prereq CIDE student or instr consent ;

Instructor: Schneider X,Byron J

Description: 8143 is an "open" seminar, in the sense that guests of various professional and applied backgrounds are routinely invited to discuss current conditions and alternative futures for global youth, together with the policy and practice alternatives that could help these youth. Please contact Professor Arthur Harkins (harki001@umn.edu) or Professor Byron Schneider (schne003@umn.edu) for more information.

EDPA 8143 Integrative Seminar in Global Youth Policy and Leadership

A-F only, 1 credit(s), max credits 3, 3 completions allowed; prereq CIDE student or instr consent ;

Instructor: Harkins,Arthur M

Description: 8143 is an "open" seminar, in the sense that guests of various professional and applied backgrounds are routinely invited to discuss current conditions and alternative futures for global youth, together with the policy and practice alternatives that could help these youth. Please contact Professor Arthur Harkins (harki001@umn.edu) or Professor

Byron Schneider (schne003@umn.edu) for more information.

EDPA 8302 Educational Policy Perspectives

3 credit(s);

Instructor: Alexander, Nicola

Description: EdPA 8302 is a required course in the PhD graduate program of Educational Administration. It focuses on the principles of policy analysis and introduces students to the techniques used systematically to analyze and resolve policy issues in the education arena. The focus is on ex ante policy analysis, so the starting point will be defining a problem. The rudimentary principles of policy analysis are reviewed, but we will also spend much of the time critiquing the literature in the field and applying the principles learned. The course aims to develop an understanding of the underlying structure of policy problems and to provide students with the appropriate guidelines of how sound analyses may be made. By the end of the course we will cover: major ethical worldviews that underlie policy formulation and analyses; policy analysis as problem solving and method; fundamental principles of policy analysis; components of a well-formulated policy argument; key steps underlying the policy analysis process; techniques used to conduct policy analysis; critical issues in educational administration for all program areas (Comparative and international education; educational administration (K-12); evaluation; and higher education).

EDPA 8312 Inquiry for School Improvement Part I

A-F only, 3 credit(s); prereq 8311;

Instructor: Kalnin, Julie

Description: Student may contact the instructor or department for information.

EDPA 8596 Evaluation Internship

1-9 credit(s), max credits 24, 24 completions allowed; prereq [5501 or EPsy 5243], instr consent; Credit will not be granted if credit has been received for: EPSY 8296;

Instructor: Krueger, Richard A

Description: Student may contact the instructor or department for information.

EDPA 8702 Administration and Leadership in Higher Education

3 credit(s); prereq 5001, 5701;

Instructor: Weerts, David J

Description: Student may contact the instructor or department for information.

Educational Psychology 250 Education Science Building

EPSY 3119 Learning, Cognition, and Assessment

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: EDHD 5001; Meets CLE req of Social Science Core;

Instructor: Samuels, S Jay

Description: The purpose of this course is to help pre-service teachers learn how to use psychology to improve all aspects of instruction.

Style: 50% Lecture, 50% Discussion.

Grading: 33% mid exam, 33% final exam, 33% special projects.

Exam Format: Multiple choice

EPSY 3119 Learning, Cognition, and Assessment

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: EDHD 5001; Meets CLE req of Social Science Core;

Instructor: Varma, Keisha

Description: The purpose of this course is to help pre-service teachers learn how to use psychology to improve all aspects of instruction.

Style: 50% Lecture, 50% Discussion.

Grading: 33% mid exam, 33% final exam, 33% special projects.

Exam Format: Multiple choice

EPSY 3132 Psychology of Multiculturalism in Education A-F only, 3 credit(s); Meets CLE req of Cultural Diversity Theme;

Instructor: Hansen, Annie

Description: The PSYCHOLOGY OF MULTICULTURALISM IN EDUCATION examines contemporary and historical perspectives on issues of social and cultural diversity in the United States, with special emphasis on issues of race, ethnicity, gender, social class, age, disability, sexual orientation, and religious diversity. Processes of oppression, stereotyping, prejudice and social perception biases and their relationships to education are the primary topics of the course. This course will consist of discussion, lecture, film, and structured exercise components. In addition, students will complete reflective writing exercises to apply course concepts to real-world experiences. Grading is based on class participation (20%), reflective writing assignments (20%), a cooperative group project (20%), and two exams (20% each). Students will have the opportunity for small group and whole class discussion throughout the course.

Style: 40% Lecture, 10% Film/Video, 25% Discussion, 25% Small Group Activities.

Grading: 20% mid exam, 20% final exam, 20% special projects, 20% reflection paper, 20% in-class presentation.

Exam Format: Exams are a combination of multiple choice and short-answer. The final exam includes a cooperative component as well as an individual component. Study guides are provided.

EPSY 3133 Practicum: Service Learning, Psychology of Multiculturalism in Education

1 credit(s), max credits 3, 3 completions allowed; prereq [3132 or Concurrent registration is required (or allowed) in 3132], instr consent ;

Instructor: delMas, Robert Claude

Description: Student may contact the instructor or department for information.

EPSY 3264 Basic and Applied Statistics

3 credit(s); Credit will not be granted if credit has been received for: EPSY 5231; Meets CLE req of Mathematical Thinking Core;

Instructor: Zieffler PhD, Andrew S

Description: This course is designed to provide an overview of introductory statistics. This class is intended for undergraduate students who have completed a high school algebra course, but have not previously studied statistics. The topics to be covered in this course include sampling methods, experimental design, data exploration (e.g., using graphical and numerical summaries), data modeling and simulation, normal distributions, sampling distributions, methods of statistical inference (estimation and testing), and correlation. Upon completion of this introductory course, students should be able to: (1) think critically about statistics used in magazines, newspapers, and journal articles, (2) reason about data and (3) apply the knowledge gained in the course to begin to answer simple research questions using empirical data. Students are expected to keep up with all required readings and assignments, as well as to be active participants in the course. Active participation includes asking and answering questions in both large and small group discussions. It is also expected that all students have a basic understanding of computer use (e.g., e-mail, web browsers, word-processing software, etc.).

Style: 10% Lecture, 30% Discussion. Independent and small-group learning activities

Grading: 12% final exam, 13% special projects, 17% quizzes, 35% written homework, 23% additional semester exams.

Exam Format: Short-Answer

EPSY 3264 Basic and Applied Statistics

3 credit(s); Credit will not be granted if credit has been received for: EPSY 5231; Meets CLE req of Mathematical Thinking Core;

Instructor: Karl, Stacy R

Description: Student may contact the instructor or department for information.

EPSY 3264 Basic and Applied Statistics

3 credit(s); Credit will not be granted if credit has been received for: EPSY 5231; Meets CLE req of Mathematical Thinking Core;

Instructor: Bjornsdottir,Audbjorg

Description: Student may contact the instructor or department for information.

EPSY 3264 Basic and Applied Statistics

3 credit(s); Credit will not be granted if credit has been received for: EPSY 5231; Meets CLE req of Mathematical Thinking Core;

Instructor: Chung,Chu-Ting

Description: Student may contact the instructor or department for information.

EPSY 3301 Introduction to Educational Psychology

OPT No Aud, 3 credit(s);

Instructor: Varma,Sashank

Description: This course is an introduction to the theories, data, and methods that compose Educational Psychology. In this regard, it serves as a foundation for future coursework in education and psychology. The first third of the course will review those aspects of developmental psychology that are foundational for education. The second third will consider how cognitive psychology informs questions of learning, memory, knowledge, and reasoning. With this background in place, the final third of the course will focus on the classroom: on instruction, motivation, assessment, and individual differences. The class concludes with a lecture on how neuroscience informs education. Knowledge is gained not just by reading and listening, but also by *doing*. With this in mind, students will construct much of the knowledge they take away from this class. To take one example, in one assignment, they will participate in a classic experiment. They will analyze and write-up their data, and in this way gain a deep understanding of the empirical support for proven educational strategies. To take another example, in one project, students will gain experience with field methods: They will make field observations of children, and will interpret what they see with respect to the developmental theories studied in class. Through these assignments and projects, students will gain a deeper understanding of Educational Psychology. TOPICS Expertise; Cognitive Development; Personal, Sexual, Social, and Moral Development; Group Differences; Behavioral Learning; Cognitive Learning; Problem Solving, Reasoning, and Transfer; Motivation; Instruction; Intelligence; Standardized Testing & Assessment ;Neuroscience and Education.

Style: 33% Lecture, 33% Discussion, 33% Demonstration.

Grading: 10% Class participation; 15% Small assignments; 15% Child Observation project; 15% Lesson Analysis project; 15% Exam 1; 15% Exam 2; 15% Exam 3.

Exam Format: The exams are non-cumulative. The exam questions are *not* fill-in-the-blank or multiple-choice. Rather, they require short answers ranging from a sentence to a paragraph.

EPSY 3302 Introduction to Communication Skills for Educational and Community Settings

OPT No Aud, 3 credit(s);

Instructor: Burke,Caroline Anne

Description: This course is designed to develop communication skills for persons who will work with diverse individuals or groups in educational and community settings. The emphasis is on practice in the use of communication skills, learning about communication concepts, and development of self-reflectivity regarding one's communication style. The major objective of this course is to enable persons to become more effective communicators with individuals and groups in educational and community settings. It is based on a premise that communication is a skill that can be learned. Therefore, the course will emphasize teaching and practicing basic skills shown to be critical in working with people in human service professions.

Style: 30% Lecture, 40% Discussion, 30% Small Group Activities.

EPSY 4300 Special Topics in Educational Psychology: Integrative Career / Life Planning

3 credit(s), max credits 3, 1 completion allowed;

Instructor: Hansen,Sunny Sundal

Description: Student may contact the instructor or department for information.

EPSY 4300 Special Topics in Educational Psychology: Integrative Career / Life Planning

3 credit(s), max credits 3, 1 completion allowed;

Instructor: Hansen,Sunny Sundal

Description: Student may contact the instructor or department for information.

EPSY 4300 Special Topics in Educational Psychology: Integrative Career / Life Planning

3 credit(s), max credits 3, 1 completion allowed;

Instructor: Hansen,Sunny Sundal

Description: Student may contact the instructor or department for information.

EPSY 4300 Special Topics in Educational Psychology: Integrative Career / Life Planning

3 credit(s), max credits 3, 1 completion allowed;

Instructor: Hansen,Sunny Sundal

Description: Student may contact the instructor or department for information.

EPSY 4300 Special Topics in Educational Psychology: Integrative Career / Life Planning

3 credit(s), max credits 3, 1 completion allowed;

Instructor: Hansen,Sunny Sundal

Description: Student may contact the instructor or department for information.

EPSY 5101 Intelligence and Creativity

A-F only, 3 credit(s);

Instructor: Bengtson,Barbara J.

Description: Student may contact the instructor or department for information.

EPSY 5114 Psychology of Student Learning

A-F only, 3 credit(s);

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, 10% Student Presentation, 10% Demonstration, 5% Guest Speakers.

Grading: 20% final exam, 20% special projects, 15% journal,

20% reflection paper, 10% in-class presentation, 15% class participation.

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 5115 Psychology of Adult Learning and Instruction

3 credit(s);

Instructor: Tennyson, Robert D

Description: Student may contact the instructor or department for information.

results. Computing: Awareness of and literacy regarding statistics packages and their output.

Style: 70% Lecture, 10% Discussion, 20% Laboratory.

Grading: 33% mid exam, 33% final exam, 33% reports/papers.

Exam Format: multiple choice, short answer, essay, problems

EPSY 5135 Human Relations Workshop

4 credit(s);

Instructor: Johnson, David W

Description: This is a semester-long online course with an initial optional on-campus meeting TBA. Contact the instructor if you cannot attend. This course is approved to meet the MN Department of Education requirement for licensure. - Internet-delivered, 5 seat(s) reserved for non-PSEO, non-admitted student

EPSY 5243 Principles and Methods of Evaluation

3 credit(s); Credit will not be granted if credit has been received for: EDPA 5501;

Instructor: STAFF

Description: Introduction to program evaluation. Planning an evaluation study, collecting and analyzing information, reporting results; evaluation strategies; overview of the field of program evaluation.

EPSY 5200 Special Topics: Psychological Foundations:

Motivation in Education

3 credit(s), max credits 30, 30 completions allowed;

Instructor: Samuels, S Jay

Description: Student may contact the instructor or department for information.

EPSY 5244 Survey Design, Sampling, and Implementation

3 credit(s); prereq [5221 or 5231 or 5261 or equiv], [CEHD grad student or MED student];

Instructor: Rodriguez, Michael C.

Description: In this course you will develop an understanding of basic survey research methods, particularly those that apply to educational settings with research applications in education and the social sciences. You will develop a practical understanding of the principles of sampling and data analysis. The course is taught from the theoretical basis of Social Exchange Theory and will include the review of state-of-the-art research on survey methods.

Style: 30% Lecture, 30% Discussion, 20% Laboratory, 20% Small Group Activities.

Grading: 100% special projects. Survey Project, sampling exercises

EPSY 5216 Introduction to Research in Educational

Psychology and Human Development

A-F only, 3 credit(s); prereq 5261 or intro statistics course;

Instructor: Pellegrini, Anthony D

Description: The course leads students through the basic steps in designing and conducting a research study. Topics include reviewing the literature, different approaches to data collection, managing and analyzing data, and reporting results.

"Synthesizing Research: A Guide for Literature Reviews" by Harris M. Cooper, 1998 Sage Publications, ISBN: 0761913483.

"Research Methods in Psychology" 5TH by John J. J. Shaughnessy, Eugene B. Zechmeister, and Jeanne S. Zechmeister, 1999 McGraw-Hill Higher Education, ISBN: 0072312602. "Observing Children in Their Natural Worlds: A Methodological Primer" by Anthony D. Pellegrini, 1998 Lawrence Erlbaum Associates, Inc., ISBN: 080582152X.

Style: 100% Lecture.

Grading: 15% mid exam, 15% final exam, 70% reports/papers.

Exam Format: multiple choice

EPSY 5247 Qualitative Methods in Educational Psychology

3 credit(s); prereq Grad student;

Instructor: Lawrenz, Frances P

Description: Student may contact the instructor or department for information.

EPSY 5261 Introductory Statistical Methods

3 credit(s); Credit will not be granted if credit has been received for: EPSY 5231;

Instructor: Everson, Michelle G

Description: This course is designed to provide an overview of introductory statistics. The topics to be covered in this course include graphing techniques, measures of center and spread, normal distributions, correlation, simple linear regression, sampling methods, experimental design, sampling distributions, and methods of statistical estimation and inference. Upon completion of this introductory course, students should be able to: (1) think critically about statistics used in popular magazines, newspapers, and journal articles, (2) apply the knowledge gained in the course to analyze simple statistics used in research, and (3) design a research study, use a statistical software package to analyze the data generated from this research study, and appropriately report the conclusions of this research study. Because this version will be conducted entirely online, it is important for all students to keep up with required readings and assignments. Students are also expected to be active participants in this course. Active participation includes asking and answering questions in assigned discussion groups, posting responses to assignments and discussion questions in discussion groups, and responding to the messages posted by other members of the class. Students will also be expected to use SPSS. A student-version of SPSS will be sold with the textbook, but this student version runs on PCs, not on Macs. Any student who uses a Mac may need to complete SPSS work at a computer lab on campus.

Style: 100% Web Based. Class involves a lot of discussion/small-group activities and independent learning activities

Grading: 18% final exam, 4% reports/papers, 36% special projects, 27% quizzes, 15% written homework. Special projects includes a class project and several small-group discussion assignments.

Exam Format: mostly short-answer questions

EPSY 5221 Principles of Educational and Psychological Measurement

4 credit(s); prereq 5261 or equiv;

Instructor: Rodriguez, Michael C.

Description: Principles and methods in educational and psychological measurement. Specifically, the course will cover reliability, validity, item analysis, score interpretation; classical test theory, item response theory, and generalizability theory. Special attention will be given to the construction, interpretation, use, and evaluation of assessments regarding achievement, aptitude, interests, attitudes, personality, and exceptionalities.

Style: 65% Lecture, 20% Discussion, 5% Laboratory, 10% Small Group Activities.

Grading: 20% mid exam, 30% reports/papers, 15% special projects, 35% laboratory evaluation.

Exam Format: Multiple choice, short answer, essay, output interpretation.

EPSY 5231 Introductory Statistics and Measurement in Education

4 credit(s); Credit will not be granted if credit has been received for: EPSY 3264;

Instructor: Davison, Mark L

Description: Conceptual outline/topics: Statistics tools: Descriptive Measures of center (or Central Tendency), variability and correlation; methods of graphing and representing univariate and bivariate data; basic tests and inferential methods: t-test, confidence intervals, chi-square, simple regression; ideas of probability. Measurement topics: Types of data and measurement scales; reliability and validity; interpreting test scores and derived scores. Application of statistics and measurement in research: Read, interpret, design and critique research studies; informal ideas of power and sample size; student projects: collect data, analyze, interpret and report

EPSY 5261 Introductory Statistical Methods

3 credit(s); Credit will not be granted if credit has been received for: EPSY 5231;

Instructor: Le,Laura Jean

Description: Student may contact the instructor or department for information.

EPSY 5262 Intermediate Statistical Methods

3 credit(s); prereq 3264 or 5261 or equiv;

Instructor: Everson,Michelle G

Description: This course continues where EPSY 5261 (Introductory Statistical Methods) ends. Together, these two courses provide an alternative to the sequence EPSY 8261-8262. It is assumed that students who are registered in EPSY 5262 have successfully completed EPSY 5261 or its equivalent. By the end of the course, students should be able to: (1) understand the basic ideas and types of experimental design and analysis of variance (ANOVA), (2) run and interpret analyses involving real data using SPSS statistical software, (3) decompose data based on different models, applying algebraic notation, (4) check assumptions for models and select appropriate models for data, and (5) complete an independent project where they design an experiment, gather data, analyze and interpret the data, and write up the results in a paper. The course is conducted entirely online and students who take this course will need access to SPSS software (beyond the student version used in EPSY 5261).

Style: 100% Web Based. A large component of the course is discussion/small-group assignments and independent learning activities

Grading: 19% final exam, 38% special projects, 28% quizzes, 15% written homework. Special projects consists of a class project and several group discussion assignments.

Exam Format: Mostly short answer questions

EPSY 5281 Introduction to Computer Operations and Data Analysis in Education and Related Fields

3 credit(s); prereq Statistics course;

Instructor: Davenport Jr,Ernest C

Description: Student may contact the instructor or department for information.

EPSY 5401 Counseling Procedures

3 credit(s); prereq Upper div student;

Instructor: Turner,Sherri L

Description: This course is designed as an introduction to the theory and practice of counseling. It is intended for non-majors who may use counseling skills in a professional capacity or for those who may be considering a career in counseling. In this course you will become acquainted with counseling theory, learn basic counseling skills, gain understanding of cross-cultural and multicultural counseling, and learn strategies for working with crisis victims. Instructional methods will include lecture, group interaction, and practice. This course will be web enhanced but the URL is not yet available.

Style: 25% Lecture, 65% Discussion, 10% Small Group Activities. small group work

Grading: 65% reports/papers, 20% special projects, 15% class participation.

EPSY 5415 Child and Adolescent Development and Counseling A-F only, 4 credit(s); prereq Grad student or MEd student or K-12 [counseling endorsement or licensure] student;

Instructor: Wahl,Kay Herting

Description: Student may contact the instructor or department for information.

EPSY 5461 Cross-Cultural Counseling

A-F only, 3 credit(s);

Instructor: Trotter,Michelle Judith

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: Zukowski,Beth Ann

Description: Student may contact the instructor or department for information.

EPSY 5609 Family-centered Services

A-F only, 2 credit(s);

Instructor: Johnson,LeAnne Denise

Description: Student may contact the instructor or department for information.

EPSY 5612 Understanding of Academic Disabilities

A-F only, 3 credit(s);

Instructor: Seifert PhD,Kathy

Description: Student may contact the instructor or department for information.

EPSY 5613 Foundations of Special Education I

A-F only, 3 credit(s); prereq Child development course, 5601 or equiv;

Instructor: Fautsch-Patridge,Terri

Description: Student may contact the instructor or department for information.

EPSY 5613 Foundations of Special Education I

A-F only, 3 credit(s); prereq Child development course, 5601 or equiv;

Instructor: Lindell,Mary Ann

Description: Student may contact the instructor or department for information.

EPSY 5613 Foundations of Special Education I

A-F only, 3 credit(s); prereq Child development course, 5601 or equiv;

Instructor: Markell,Marc A

Description: Student may contact the instructor or department for information.

EPSY 5613 Foundations of Special Education I

A-F only, 3 credit(s); prereq Child development course, 5601 or equiv;

Instructor: Wolff,Jason James

Description: Student may contact the instructor or department for information.

EPSY 5616 Behavior Analysis and Classroom Management

3 credit(s);

Instructor: Fautsch-Patridge,Terri

Description: Student may contact the instructor or department for information.

EPSY 5616 Behavior Analysis and Classroom Management

3 credit(s);

Instructor: Besner,Amanda Charolette

Description: Student may contact the instructor or department for information.

EPSY 5616 Behavior Analysis and Classroom Management

3 credit(s);

Instructor: Moore,Tim

Description: Student may contact the instructor or department for information.

EPSY 5616 Behavior Analysis and Classroom Management

3 credit(s);

Instructor: Byiers,Breanne June

Description: Student may contact the instructor or department for information.

EPSY 5624 Biomedical and Physical Aspects of Developmental Disabilities

A-F only, 2 credit(s), max credits 3, 1 completion allowed;

Instructor: Azar,Judith Larson

Description: Student may contact the instructor or department for information.

EPSY 5625 Education of Infants, Toddlers, and Preschool Children with Disabilities: Introduction**A-F only, 2 credit(s);****Instructor:** Krick,Kellie Margaret**Description:** Student may contact the instructor or department for information.**EPSY 5636 Education of Multihandicapped Learners with Sensory Impairments****2 credit(s), max credits 3, 1 completion allowed; prereq 5613, 5614;****Instructor:** Hupp,Susan Candis**Description:** This course is designed to address characteristics and learning needs of students with developmental disabilities who also have visual and auditory disabilities. We explore the nature of visual and auditory disabilities; the design of instructional programs to remediate or accommodate disabilities, including use of prosthetic devices; strategies to evaluate environments as they affect student performance, both school and nonschool, inside and outside; and related areas of performance affected by sensory impairments, such as communication. The course includes a project wherein students plan a method to evaluate a community-based environment for sensory demands, implement the evaluation, and share their findings with the class, in partnership with students in EPSY 5624.**EPSY 5641 Foundations of Education for Individuals Who Are Deaf/Hard of Hearing****3 credit(s);****Instructor:** Arnoldi,Kathleen A**Description:** Student may contact the instructor or department for information.**EPSY 5644 Language Development and Programming for Deaf/Hard of Hearing Children****3 credit(s);****Instructor:** Rose,Susan**Description:** Student may contact the instructor or department for information.**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 5656 Social and Interpersonal Characteristics of Students with Disabilities****A-F only, 3 credit(s);****Instructor:** STAFF**Description:** The focus of this course is on the critical analysis of conceptual and practical issues regarding special education and students with emotional and behavioral disorders.**Style:** 30% Lecture, 20% Discussion. Small group activities**Grading:** 50% reports/papers, 30% quizzes, 5% in-class presentation, 15% class participation.**EPSY 5661 Introduction to Autism Spectrum Disorder****A-F only, 3 credit(s);****Instructor:** Reichle,Joe E**Description:** Student may contact the instructor or department for information.**EPSY 5702 Practicum in Autism Spectrum Disorder****A-F only, 3 credit(s); prereq 5616, 5661, 5609, one of [5622 or 5644 or SLHS 5606], enrolled in Autism Spectrum Disorder certificate program, instr consent ;****Instructor:** Reichle,Joe E**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; prereq instr consent ;****Instructor:** Paulson,Anna Regas**Description:** Student may contact the instructor or department for information.**EPSY 5752 Student Teaching: Learning Disabilities**
S-N only, 1-6 credit(s), max credits 10, 10 completions allowed; prereq instr consent;**Instructor:** Seifert PhD,Kathy**Description:** A higher level of understanding of specific learning disabilities will be the focus of this course. The transfer of theoretical knowledge to practical application learned throughout the students' program will be examined. Understanding of the role of the learning strategies specialist in resource and inclusive settings for students of elementary and secondary age is essential. Student teaching provides an opportunity to demonstrate competencies in teaching students with developmental disabilities that are outlined by the Minnesota Department of Education Board of Teaching and the University of Minnesota as requirements for the teaching license.**EPSY 5753 Student Teaching: Early Childhood Special Education****S-N only, 1-6 credit(s), max credits 8, 8 completions allowed; prereq instr consent, completion of all course requirements for license in ECSE;****Instructor:** Krick,Kellie Margaret**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; prereq Completion of licensure courses for social and emotional disorders, instr consent;****Instructor:** Kelley,Mary Beth**Description:** Student may contact the instructor or department for information.**EPSY 5755 Student Teaching: Developmental Disabilities, Mild/Moderate****A-F only, 1-6 credit(s), max credits 6; prereq Completion of all licensure coursework, instr consent ;****Instructor:** Seifert PhD,Kathy**Description:** The purpose of this two-semester sequence of Developmental Disabilities student teaching experiences is to provide student teachers with support and opportunities to demonstrate the following competencies from the MN Rules for Special Education: Developmental Disabilities. Student teaching provides an opportunity to demonstrate competencies in teaching students with developmental disabilities that are outlined by the Minnesota Department of Education Board of Teaching and the University of Minnesota as requirements for the teaching license.**EPSY 5756 Student Teaching: Developmental Disabilities, Moderate/Severe****A-F only, 1-6 credit(s), max credits 6; prereq Completion of all licensure coursework, instr consent ;****Instructor:** Seifert PhD,Kathy**Description:** The purpose of this two-semester sequence of Developmental Disabilities student teaching experiences is to provide student teachers with support and opportunities to demonstrate the following competencies from the MN Rules for Special Education: Developmental Disabilities. Student teaching provides an opportunity to demonstrate competencies in teaching students with developmental disabilities that are outlined by the Minnesota Department of Education Board of Teaching and the University of Minnesota as requirements for the teaching license.**EPSY 5991 Independent Study in Educational Psychology****A-F only, 1-8 credit(s), max credits 20, 20 completions allowed; prereq instr consent;****Instructor:** STAFF**Description:**

EPSY 8114 Seminar: Cognition and Learning**3 credit(s), max credits 9, 3 completions allowed;****Instructor:** Varma,Sashank

Description: PROBLEM SOLVING This course will focus on problem solving of a spatial nature, including its neural bases. We will read cognitive science papers about adult problem solving, ranging from classic tasks such as the Tower of Hanoi to fluid intelligence tasks such as Ravens Progressive Matrices to visuospatial reasoning tasks such as mental rotation of Shepard-Metzler figures. We will also read cognitive neuroscience papers on the network of frontal and parietal areas that supports spatial problem solving, and the impairments that result when its components are damaged. Finally, we will touch on a number of related topics, including the development of problem solving, the abilities of non-human animals, and older approaches such as the Gestalt tradition. Students will be expected to participate in class discussions, present articles, and to run a study or write a review paper on an aspect of problem solving of interest to them. **READINGS** Most of the readings will be papers from the literature. These will be made available electronically. A textbook will provide background material on the topics we cover (Holyoak, K. J., & Morrison, G. R. (2005). The Cambridge handbook of thinking and reasoning. Cambridge University Press.)

Style: 10% Lecture, 80% Student Presentation, 10% Demonstration. In most classes, students will take turns presenting the articles we read. The instructor will present particularly difficult articles. In addition, there will be occasional demonstrations of phenomena.

Grading: 40% reports/papers, 10% attendance, 40% in-class presentation, 10% class participation. Students will take turns presenting papers and leading discussion. They will also write a final paper describing a literature review or pilot study they conduct.

EPSY 8115 Psychology of Instruction and Technology**3 credit(s);****Instructor:** Tennyson,Robert D**Description:** Student may contact the instructor or department for information.**EPSY 8215 Advanced Research Methodologies in Education****3 credit(s); prereq 5221, 5247, 8261, 8262, instr consent ;****Instructor:** Harwell,Michael R**Description:** Student may contact the instructor or department for information.**EPSY 8261 Statistical Methods I: Probability and Inference****3 credit(s); prereq 3264 or 5261 or equiv;****Instructor:** 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.

EPSY 8261 Statistical Methods I: Probability and Inference**3 credit(s); prereq 3264 or 5261 or equiv;****Instructor:** Long,Jeffrey D**Description:** Student may contact the instructor or department for information.**EPSY 8262 Statistical Methods II: Regression and the General Linear Model****3 credit(s); prereq [8260, 8261] or equiv;****Instructor:** Zieffler PhD,Andrew S**Description:** Student may contact the instructor or department for information.**EPSY 8264 Advanced Multiple Regression Analysis****3 credit(s); prereq 8261-8262, regression and ANOVA course, familiarity with a statistical analysis package;****Instructor:** Davenport Jr,Ernest C**Description:** Student may contact the instructor or department for information.**EPSY 8268 Hierarchical Linear Modeling in Educational Research****3 credit(s); prereq [[8261, 8262] or equiv], instr consent ;****Instructor:** Harwell,Michael R**Description:** Student may contact the instructor or department for information.**EPSY 8271 Statistics Education Research Seminar: Studies on Teaching and Learning Statistics****3 credit(s), max credits 9, 3 completions allowed;****Instructor:** Garfield,Joan B**Description:** Student may contact the instructor or department for information.**EPSY 8282 Statistical Analysis of Longitudinal Data****3 credit(s); prereq [8261, 8262] or equiv;****Instructor:** Long,Jeffrey D**Description:** Student may contact the instructor or department for information.**EPSY 8296 Evaluation Internship****1-9 credit(s), max credits 24, 24 completions allowed; prereq 5243 or EdPA 5501, instr consent ; Credit will not be granted if credit has been received for: EDPA 8596;****Instructor:** Krueger,Richard A**Description:** Student may contact the instructor or department for information.**EPSY 8311 Education Sciences Proseminar****A-F only, 1 credit(s), max credits 3, 3 completions allowed; prereq Doctoral student, instr consent ;****Instructor:** Davison,Mark L**Description:** Student may contact the instructor or department for information.**EPSY 8402 Individual Counseling: Theory and Applications****A-F only, 3 credit(s); prereq Grad ed psy major with CSPP subprog or instr consent;****Instructor:** Burke,Caroline Anne**Description:** Student may contact the instructor or department for information.**EPSY 8405 Career Development: Theory, Skills, and Counseling Applications****A-F only, 3 credit(s); prereq CSPP grad student;****Instructor:** Goh PhD,Michael P.**Description:** Student may contact the instructor or department for information.**EPSY 8406 Professional Ethics for Counselors and Psychologists****A-F only, 3 credit(s); prereq CSPP grad student;****Instructor:** Burke,Caroline Anne**Description:** Student may contact the instructor or department for information.**EPSY 8412 Seminar: Advanced Counseling Theory and Ethics****A-F only, 4 credit(s); prereq Ed psy PhD student with CSPP subprog or instr consent;****Instructor:** Skovholt,Thomas M**Description:** Student may contact the instructor or department for information.**EPSY 8436 Crisis Management and Consulting in School Counseling****A-F only, 3 credit(s); prereq CSPP grad student in school counselor program or instr consent;****Instructor:** Wahl,Kay Herting

Description: Student may contact the instructor or department for information.

EPSY 8452 Psychological Aspects of Counseling Supervision
3 credit(s); prereq Ed psy PhD student with CSPP subprog or instr consent;

Instructor: Veach PhD,LP,Patricia McCarthy

Description: Student may contact the instructor or department for information.

EPSY 8501 Counseling Pre-Practicum

A-F only, 3 credit(s); prereq [CSPP or genetic counseling] grad student;

Instructor: Veach PhD,LP,Patricia McCarthy

Description: Student may contact the instructor or department for information.

EPSY 8503 Counseling Practicum I

A-F only, 1-4 credit(s), max credits 4, 1 completion allowed; prereq 8502 or instr consent;

Instructor: Skovholt,Thomas M

Description: Student may contact the instructor or department for information.

EPSY 8503 Counseling Practicum I

A-F only, 1-4 credit(s), max credits 4, 1 completion allowed; prereq 8502 or instr consent;

Instructor: Wahl,Kay Herting

Description: Student may contact the instructor or department for information.

EPSY 8509 Supervision Practicum: CSPP

2 credit(s); prereq [Ed psy PhD student with CSPP subprog] or instr consent;

Instructor: Skovholt,Thomas M

Description: Student may contact the instructor or department for information.

EPSY 8512 Internship: CSPP

S-N only, 1-12 credit(s), max credits 12, 12 completions allowed; prereq EdPsy PhD student with CSPP subprog;

Instructor: Goh PhD,Michael P.

Description: Student may contact the instructor or department for information.

EPSY 8522 Counseling Practicum: Advanced

A-F only, 3 credit(s), max credits 12, 4 completions allowed; prereq [Grad EPsy PhD student with CSPP subprog] or instr consent ; instructor consent required after 2 repeats;

Instructor: Goh PhD,Michael P.

Description: Student may contact the instructor or department for information.

EPSY 8600 Special Topics: Special Education Issues: Math

Assess & Intervention Research: Students w/LD

3 credit(s), max credits 9, 9 completions allowed;

Instructor: Jitendra,Asha

Description: This course is designed to address issues related to mathematics research and access to the general mathematics curriculum for diverse learners with learning difficulties. In addition, the focus is on developing effective mathematics interventions based on instructional design principles as well as identifying evidence-based practices.

Style: 10% Lecture, 30% Discussion, 10% Small Group Activities, 50% Student Presentation.

Grading: 50% reports/papers, 25% in-class presentation, 8% class participation, 16% other evaluation. Journal article critiques constitutes 17% of the total grade.

EPSY 8701 Doctoral Core Seminar: Special Education I

A-F only, 3 credit(s), max credits 6; prereq EdPsy PhD student with spec ed subprog or instr consent;

Instructor: McMaster,Kristen Lee

Description: Student may contact the instructor or department for information.

EPSY 8707 Principles of Behavior Analysis and Learning

A-F only, 3 credit(s); prereq [Grad student, foundational course in [learning or psychology]] or instr consent ;

Instructor: McComas,Jennifer

Description: Student may contact the instructor or department for information.

EPSY 8811 Assessment in School Psychology I: Foundations of Academic Assessment

A-F only, 3 credit(s); prereq Grad ed psy major with school psy subprog or instr consent;

Instructor: Christ,Theodore J

Description: Student may contact the instructor or department for information.

EPSY 8813 Assessment Practicum in School Psychology

A-F only, 2 credit(s), max credits 4; prereq 8821, grad ed psy major with school psy subprog or instr consent, concurrent enrollment 8811 or concurrent enrollment 8812;

Instructor: Christ,Theodore J

Description: Student may contact the instructor or department for information.

EPSY 8816 Individual Intervention and Consultation

A-F only, 3 credit(s);

Instructor: Wagner,Angela R

Description: Student may contact the instructor or department for information.

EPSY 8818 Intervention Practicum in School Psychology

A-F only, 1 credit(s), max credits 2; prereq Grad ed psy major with school psy subprog, concurrent enrollment 8815 or concurrent enrollment 8816;

Instructor: Wagner,Angela R

Description: Student may contact the instructor or department for information.

EPSY 8821 Issues in School Psychology

A-F only, 3 credit(s); prereq EPsy grad student with SchIPsy subprog;

Instructor: Ysseldyke,James E

Description: Student may contact the instructor or department for information.

EPSY 8831 Practicum: School Psychological Services

1-3 credit(s), max credits 6, 6 completions allowed; prereq Grad ed psy major with school psy subprog;

Instructor: Hansen,Annie

Description: Student may contact the instructor or department for information.

EPSY 8832 Clinical/Community Practice in School Psychology

1-3 credit(s), max credits 6, 6 completions allowed; prereq Grad ed psy major with school psy subprog;

Instructor: Hansen,Annie

Description: Student may contact the instructor or department for information.

EPSY 8841 Practicum: Instruction and Supervision in School Psychology

A-F only, 2 credit(s), max credits 4; prereq Grad ed psy major with school psy subprog or instr consent;

Instructor: Christ,Theodore J

Description: Student may contact the instructor or department for information.

EPSY 8842 Internship: School Psychological Services

S-N only, 1-10 credit(s), max credits 10, 10 completions allowed; prereq Grad ed psy major with school psy subprog, instr consent;

Instructor: Hansen,Annie

Description: Student may contact the instructor or department for information.

EPSY 8850 Doctoral Seminar in School Psychology: Research,

Training, Practice, Policy Issues, and Action Plans
A-F only, 3 credit(s); prereq [[Grad student in school psychology, coursework in school psychology] or advanced PhD student from related department], instr consent ;
Instructor: Christenson,Sandra L.
Description: Student may contact the instructor or department for information.

for information.

EE 1701W Energy, Environment, and Society
3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Environment Theme; meets CLE req of Writing Intensive;
Instructor: Imbertson,Paul Jay
Description: Student may contact the instructor or department for information.

EE 2001 Introduction to Electronic and Electrical Circuits
3 credit(s); prereq Phys 1302, Concurrent registration is required (or allowed) in is required in Math 2243, 2373, 2573;
Instructor: Stadler,Bethanie J. Hills
Description: Student may contact the instructor or department for information.

EE 2002 Introductory Circuits and Electronics Laboratory
1 credit(s); prereq 2001 or Concurrent registration is required (or allowed) in 2001;
Instructor: Jovanovic,Mihailo
Description: Student may contact the instructor or department for information.

EE 2002 Introductory Circuits and Electronics Laboratory
1 credit(s); prereq 2001 or Concurrent registration is required (or allowed) in 2001;
Instructor: salapaka,murti v
Description: Student may contact the instructor or department for information.

EE 2011 Linear Systems and Circuits
3 credit(s); prereq 2001;
Instructor: Robbins,William P
Description: Student may contact the instructor or department for information.

EE 2101 Introduction to Electronics I
1.5 credit(s); prereq Linear circuits;
Instructor: Tran,Nang
Description: Student may contact the instructor or department for information.

EE 2103 Introduction to Electronics II
1 credit(s); prereq 2001 or 2101;
Instructor: Tran,Nang
Description: Student may contact the instructor or department for information.

EE 2301 Introduction to Digital System Design
4 credit(s); prereq Math [1272 or 1372 or 1572], concurrent registration in 0301;
Instructor: Kinney,Larry L
Description: Boolean algebra, logic gates, combinational logic simplification, sequential logic, design of synchronous sequential logic, VHDL modeling, design of logic circuits, Integral lab.

EE 2361 Introduction to Microcontrollers
4 credit(s); prereq Concurrent registration is required (or allowed) in 0361, 2301, [1301 or CSCI 1113 or CSCI 1901];
Instructor: STAFF
Description: Computer organization, assembly language programming, arithmetic/logical operations, parallel/serial input/output. Microprocessor/microcontroller interfacing: memory design, exception handling, interrupts, using special-purpose features such as A/D converters, fuzzy logic, DSP operations. Integral lab.
Style: 50% Lecture, 15% Discussion, 35% Laboratory.
Grading: 15% mid exam, 40% final exam, 15% quizzes, 20% laboratory evaluation, 10% problem solving.
Exam Format: Solve problems

EE 3005 Fundamentals of Electrical Engineering
4 credit(s); prereq Math 2243, Phys 1302; not for EE majors;
Instructor: Imbertson,Paul Jay

Electrical and Computer Engineering

4-178 EE/CSci Building

EE 1 Refresher Course for Electrical Engineers
A-F only, 0 credit(s); prereq [BSEE or BEE], pass EIT exam, four yrs elec eng experience;
Instructor: Nordell,Daniel Edwin
Description: This course is a review of electrical engineering fundamentals required to pass the National Council of Engineering Examiners Principles and Practice Examination in the discipline of Electrical Engineering. It is designed to aid the electrical engineer in preparation for the PE examination by presenting an organized review of material ordinarily contained in a college electrical engineering curriculum. Primary emphasis will be on problem solving with orientation as close as possible to the type of questions contained in the exam. Prerequisites: Completion of the Fundamentals of Engineering exam Electrical Engineering or equivalent degree 4 years electrical engineering experience
Style: 75% Lecture, 25% Discussion.
Grading: 100% successful completion of the FE exam

EE 1 Refresher Course for Electrical Engineers
A-F only, 0 credit(s); prereq [BSEE or BEE], pass EIT exam, four yrs elec eng experience;
Instructor: Ernst,Thomas W
Description: This course is a review of electrical engineering fundamentals required to pass the National Council of Engineering Examiners Principles and Practice Examination in the discipline of Electrical Engineering. It is designed to aid the electrical engineer in preparation for the PE examination by presenting an organized review of material ordinarily contained in a college electrical engineering curriculum. Primary emphasis will be on problem solving with orientation as close as possible to the type of questions contained in the exam. Prerequisites: Completion of the Fundamentals of Engineering exam Electrical Engineering or equivalent degree 4 years electrical engineering experience
Style: 75% Lecture, 25% Discussion.
Grading: 100% successful completion of the FE exam

EE 301 Introduction to Digital System Design: Discussion
No Grade, 0 credit(s); prereq concurrent registration in 2301;
Instructor: Kinney,Larry L
Description: Student may contact the instructor or department for information.

EE 301 Introduction to Digital System Design: Discussion
No Grade, 0 credit(s); prereq concurrent registration in 2301;
Instructor: Riedel,Marc
Description: Student may contact the instructor or department for information.

EE 361 Introduction to Microcontrollers: Discussion
S-N only, 0 credit(s); prereq concurrent registration in 2361;
Instructor: Rennolet,Charles Leon
Description: Student may contact the instructor or department for information.

EE 1301 Introduction to Computing Systems
4 credit(s); prereq MATH 1271 or MATH 1371;
Instructor: STAFF
Description: Student may contact the instructor or department

Description: Student may contact the instructor or department for information.

Instructor: Higman, Ted King

Description: Student may contact the instructor or department for information.

EE 3006 Fundamentals of Electrical Engineering Laboratory
1 credit(s); prereq Concurrent enrollment in 3005 is allowed but not required;

Instructor: Imbertson, Paul Jay

Description: Student may contact the instructor or department for information.

EE 4231 Linear Control Systems: Designed by Input/Output Methods

3 credit(s); prereq [3015, [upper div IT or grad student in IT major]] or instr consent; no [EE or CompE] grad cr;

Instructor: salapaka, murti v

Description: Student may contact the instructor or department for information.

EE 3015 Signals and Systems

3 credit(s); prereq [2011, IT] or dept consent;

Instructor: Cano Pleite, Alfonso

Description: Student may contact the instructor or department for information.

EE 4235 Linear Control Systems Laboratory

1 credit(s); prereq 4231 or concurrent enrollment 4231; no EE or CompE grad cr;

Instructor: Georgiou, Tryphon T

Description: Lab to accompany 4231

EE 3025 Statistical Methods in Electrical and Computer Engineering

3 credit(s); prereq [3015, IT] or instr approval;

Instructor: Luo, Zhi-Quan

Description: Student may contact the instructor or department for information.

EE 4301 Digital Design With Programmable Logic

4 credit(s); prereq 2301, [1301 or CSCI 1113 or CSCI 1901];

Instructor: Posbergh, Thomas Alfred

Description: Student may contact the instructor or department for information.

EE 3041 Industrial Assignment I

A-F only, 2 credit(s); prereq [EE or CompE upper div], enrolled in ECE co-op program;

Instructor: Higman, Ted King

Description: Student may contact the instructor or department for information.

EE 4363 Computer Architecture and Machine Organization

4 credit(s); prereq 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: Posbergh, Thomas Alfred

Description: Student may contact the instructor or department for information.

EE 3101 Circuits and Electronics Laboratory I

2 credit(s); prereq [2002, [3115 or Concurrent registration is required (or allowed) in 3115], IT] or dept consent ;

Instructor: Higman, Ted King

Description: Student may contact the instructor or department for information.

EE 4501 Communications Systems

3 credit(s); prereq 3025; no EE or CompE grad cr;

Instructor: Mahmoodi PhD, Abolghassem B

Description: Student may contact the instructor or department for information.

EE 3102 Circuits and Electronics Laboratory II

2 credit(s); prereq [3101 or IT or dept consent], attendance first day of class;

Instructor: Sainati, Robert A

Description: Student may contact the instructor or department for information.

EE 4505 Communications Systems Laboratory

1 credit(s), max credits 3, 1 completion allowed; prereq 4501 or concurrent enrollment 4501; no EE or CompE grad cr;

Instructor: Mahmoodi PhD, Abolghassem B

Description: Student may contact the instructor or department for information.

EE 3115 Analog and Digital Electronics

4 credit(s); prereq [3015 or Concurrent registration is required (or allowed) in 3015, IT] or dept consent ;

Instructor: Harjani, Ramesh

Description: Student may contact the instructor or department for information.

EE 4541 Digital Signal Processing

3 credit(s); prereq [3015, 3025] or instr consent;

Instructor: Tewfik, Ahmed Hossam

Description: Student may contact the instructor or department for information.

EE 3161 Semiconductor Devices

3 credit(s); prereq Upper div IT, 2011, Phys 1302, Phys 2303 or Chem 1022;

Instructor: Talghader, Joseph John

Description: Elementary semiconductor physics; physical description of pn junction diodes, bipolar junction transistors, field-effect transistors.

EE 4607 Wireless Hardware System Design

3 credit(s); prereq [3015, 3115, 3601, IT student] or dept consent ;

Instructor: Franklin, Rhonda R.

Description: Student may contact the instructor or department for information.

EE 3601 Transmission Lines, Fields, and Waves

3 credit(s); prereq [2011, [Math 2243 or Math 2373 or Math 2573], [Phys 1302 or Phys 1402], IT] or dept consent ;

Instructor: Sainati, Robert A

Description: Student may contact the instructor or department for information.

EE 4721 Introduction to Power System Analysis

3 credit(s); prereq 2011;

Instructor: Wollenberg, Bruce F

Description: AC power systems; analysis of large power system networks; mathematics and techniques of power flow analysis, short circuit analysis, and transient stability analysis; use of a power system simulation program for design. Integral lab.

EE 4043W Industrial Assignment II

A-F only, 4 credit(s); prereq 3041; Meets CLE req of Writing Intensive;

Instructor: Higman, Ted King

Description: Student may contact the instructor or department for information.

EE 4722 Power System Analysis Laboratory

1 credit(s); prereq 4721 or Concurrent registration is required (or allowed) in 4721;

Instructor: Wollenberg, Bruce F

Description: Student may contact the instructor or department for information.

EE 4044 Industrial Assignment III

A-F only, 2 credit(s); prereq 4043W;

EE 4741 Power Electronics

3 credit(s); prereq 3015, 3115;

Instructor: Mohan,Ned

Description: This course is intended to provide a complete overview of Power Electronics that is an enabling technology for energy conservation and utilizing renewable energy resources. Topics include switch-mode DC Power Supplies; switch-mode Converters for DC and AC Motor Drives, Wind/Photovoltaic Inverters, interfacing power electronics equipment with Utility System; power semiconductor devices, magnetic design, etc. Associated with this course are PSpice-based examples and exercises. The textbook (less than 300 pages) is written specifically for such a course by the instructor; it can be purchased at a very low cost from the university bookstore. Totally as an option, students in this lecture course can opt to construct a dc-dc converter from a kit with surface-mount parts. Optional related hardware laboratory is EE 4743.

EE 4743 Switch-Mode Power Electronics Laboratory
1 credit(s); prereq 4741 or Concurrent registration is required (or allowed) in 4741;

Instructor: Mohan,Ned

Description: This hardware laboratory is intended to complement the lecture material in EE4741. It consists of hardware experiments on various switch-mode dc-dc converters without transformer isolation such as Buck, Boost and Buck-Boost converters. It also consists of dc-dc converters with transformer isolation, such as Flyback and Forward converters. One of the experiments requires design and implementation of a feedback control loop as in regulated dc power supplies.

EE 4951W Senior Design Project

4 credit(s); prereq 3015, 3115, 3102, 3601, attendance first day of class; Meets CLE req of Writing Intensive;

Instructor: Cohen,Philip I

Description: Student may contact the instructor or department for information.

EE 4970 Directed Study

1-3 credit(s), max credits 3; prereq Cr ar [may be repeated for cr]; dept consent ;

Instructor: STAFF

Description: Studies of approved projects, either theoretical or experimental.

EE 4981H Senior Honors Project I

2 credit(s); prereq ECE honors, sr, instr consent;

Instructor: Tewfik,Ahmed Hossam

Description: Student may contact the instructor or department for information.

EE 5121 Transistor Device Modeling for Circuit Simulation

3 credit(s); prereq [3115, 3161, IT grad student] or dept consent ;

Instructor: Higman,Ted King

Description: Student may contact the instructor or department for information.

EE 5163 Semiconductor Properties and Devices I

3 credit(s); prereq [3161, 3601, IT grad student] or dept consent ;

Instructor: STAFF

Description: Principles and properties of semiconductor devices. Selected topics in semiconductor materials, statistics, and transport. Aspects of transport in p-n junctions, heterojunctions.

EE 5171 Microelectronic Fabrication

4 credit(s); prereq IT grad student or dept consent ;

Instructor: Campbell,Stephen A

Description: This course teaches the basic science and practical knowledge behind the fabrication of micro and nano structures. Although the course uses integrated circuits as its primary teaching vehicle, the topics covered can be applied to many kinds of electrical, mechanical, optical, and magnetic structures. Specific processes covered include lithography, oxidation, etch, diffusion, chemical and physical vapor deposition, and epitaxial growth. The course also discusses the

assembly of these unit processes to make various technologies including CMOS, double poly bipolar, GaAs MESFET, light emitting diode and solid state lasers, and MEMS. Extensive knowledge of the physics of the operation of these devices is not necessary.

Style: 100% Lecture.

Grading: 15% mid exam, 25% final exam, 15% reports/papers, 30% quizzes, 15% problem solving.

Exam Format: Problem Solving

EE 5173 Basic Microelectronics Laboratory

1 credit(s); prereq [[5171 or Concurrent registration is required (or allowed) in 5171], IT grad student] or dept consent ;

Instructor: Campbell,Stephen A

Description: Student may contact the instructor or department for information.

EE 5181 Introduction to Nanotechnology

4 credit(s); prereq [3161, 3601, IT grad student] or dept consent ;

Instructor: Jacobs,Heinrich Otto Heiko

Description: Student may contact the instructor or department for information.

EE 5231 Linear Systems and Optimal Control

3 credit(s); prereq [3015, IT grad student] or instr consent ;

Instructor: Zhao,Yiyuan J.

Description: Student may contact the instructor or department for information.

EE 5231 Linear Systems and Optimal Control

3 credit(s); prereq [3015, IT grad student] or instr consent ;

Instructor: Jovanovic,Mihailo

Description: Student may contact the instructor or department for information.

EE 5251 Optimal Filtering and Estimation

3 credit(s); prereq [[[MATH 2243, STAT 3021] or equiv], IT grad student] or dept consent ; 3025, 4231 recommended; Credit will not be granted if credit has been received for:

AEM 5451;

Instructor: Gebre Egziabher, Demoz

Description: Student may contact the instructor or department for information.

EE 5301 VLSI Design Automation I

3 credit(s); prereq [2301, IT grad student] or dept consent ;

Instructor: Sapatnekar,Sachin Suresh

Description: Student may contact the instructor or department for information.

EE 5323 VLSI Design I

3 credit(s); prereq [2301, 3115, IT grad student] or dept consent ;

Instructor: Kim,Chris H.

Description: Student may contact the instructor or department for information.

EE 5329 VLSI Digital Signal Processing Systems

3 credit(s); prereq [[5323 or Concurrent registration is required (or allowed) in 5323], IT grad student] or dept consent ;

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 5333 Analog Integrated Circuit Design

3 credit(s); prereq [3115, IT grad student] or dept consent ;

Instructor: Higman, Ted King

Description: Student may contact the instructor or department for information.

EE 5501 Digital Communication

3 credit(s); prereq [3025, 4501, IT grad student] or dept consent ;

Instructor: Jindal, Nihar

Description: Student may contact the instructor or department for information.

EE 5531 Probability and Stochastic Processes

3 credit(s); prereq [3025, IT grad student] or dept consent ;

Instructor: Kieffer, John C

Description: Student may contact the instructor or department for information.

EE 5602 RF/Microwave Circuit Design

3 credit(s); prereq [5601 or equiv], [IT grad student or instr consent];

Instructor: Gopinath, Anand

Description: Student may contact the instructor or department for information.

EE 5624 Optical Electronics

4 credit(s); prereq [[3601 or Phys 3002], IT grad student] or dept consent ;

Instructor: Leger, James Robert

Description: This course is an introduction to modern optics, including the fundamental operation of lasers, propagation of laser beams, optical resonators, polarization optics, electro-optics, acoustooptic modulation, nonlinear optics, and phase conjugation. The course stresses the basic operation of optical components, and includes some applications. The grade is based on exams, homework, and a short term paper.

EE 5653 Physical Principles of Magnetic Materials

3 credit(s); prereq IT grad student or dept consent ;

Instructor: Victoria, Randall H

Description: Physics of para-magnetism, ferro-magnetism, antiferro-magnetism, ferrimagnetism, and associated ferromagnetic phenomena; static and dynamic theory of micromagnetics, magneto-optics, magnetization dynamics and magnetic material applications. Target audience is graduate students in a variety of fields, including electrical engineering, physics and materials science.

Style: 100% Lecture.

Grading: 15% mid exam, 30% final exam, 15% reports/papers, 40% problem solving.

Exam Format: Problem solution

EE 5940 Special Topics in Electrical Engineering I

1-4 credit(s), max credits 12, 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; prereq Grad student, instr consent ;

Instructor: Imbertson, Paul Jay

Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training

S-N only, 1-2 credit(s), max credits 6, 3 completions allowed; prereq Grad student, instr consent ;

Instructor: Ernie, Douglas

Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training

S-N only, 1-2 credit(s), max credits 6, 3 completions allowed; prereq Grad student, instr consent ;

Instructor: Mounes-Toussi, Farnaz

Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training

S-N only, 1-2 credit(s), max credits 6, 3 completions allowed; prereq Grad student, instr consent ;

Instructor: 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; prereq Grad student, instr consent ;

Instructor: Ottesen, Hal

Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training

S-N only, 1-2 credit(s), max credits 6, 3 completions allowed; prereq Grad student, instr consent ;

Instructor: Gopinath, Anand

Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training

S-N only, 1-2 credit(s), max credits 6, 3 completions allowed; prereq Grad student, instr consent ;

Instructor: Tewfik, Ahmed Hossam

Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training

S-N only, 1-2 credit(s), max credits 6, 3 completions allowed; prereq Grad student, instr consent ;

Instructor: Sapiro, Guillermo R

Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training

S-N only, 1-2 credit(s), max credits 6, 3 completions allowed; prereq Grad student, instr consent ;

Instructor: Sapatnekar, Sachin Suresh

Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training

S-N only, 1-2 credit(s), max credits 6, 3 completions allowed; prereq Grad student, instr consent ;

Instructor: Moon, Jaekyun

Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training

S-N only, 1-2 credit(s), max credits 6, 3 completions allowed; prereq Grad student, instr consent ;

Instructor: Wollenberg, Bruce F

Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training

S-N only, 1-2 credit(s), max credits 6, 3 completions allowed; prereq Grad student, instr consent ;

Instructor: Posbergh, Thomas Alfred

Description: Student may contact the instructor or department for information.

for information.

EE 5990 Curricular Practical Training

S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
prereq Grad student, instr consent ;
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;
prereq Grad student, instr consent ;
Instructor: Harjani,Ramesh
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training

S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
prereq Grad student, instr consent ;
Instructor: Cohen,Philip I
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training

S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
prereq Grad student, instr consent ;
Instructor: Ruden,P Paul
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training

S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
prereq Grad student, instr consent ;
Instructor: Georgiou,Tryphon T
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training

S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
prereq Grad student, instr consent ;
Instructor: Stadler,Bethanie J. Hills
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training

S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
prereq Grad student, instr consent ;
Instructor: Higman,Ted King
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training

S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
prereq Grad student, instr consent ;
Instructor: Kaveh,Mostafa
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training

S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
prereq Grad student, instr consent ;
Instructor: Lilja,David J
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training

S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
prereq Grad student, instr consent ;
Instructor: Mohan,Ned
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training

S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
prereq Grad student, instr consent ;

Instructor: Talghader,Joseph John

Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training

S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
prereq Grad student, instr consent ;
Instructor: Cherkassky,Vladimir S
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training

S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
prereq Grad student, instr consent ;
Instructor: Campbell,Stephen A
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training

S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
prereq Grad student, instr consent ;
Instructor: Hubel,Allison
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training

S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
prereq Grad student, instr consent ;
Instructor: Kinney,Larry L
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training

S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
prereq Grad student, instr consent ;
Instructor: Kieffer,John C
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training

S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
prereq Grad student, instr consent ;
Instructor: Robbins,William P
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training

S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
prereq Grad student, instr consent ;
Instructor: Sobelman,Gerald Edward
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training

S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
prereq Grad student, instr consent ;
Instructor: Leger,James Robert
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training

S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
prereq Grad student, instr consent ;
Instructor: Franklin,Rhonda R.
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training

S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
prereq Grad student, instr consent ;
Instructor: Ebbini,Emad S
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training

- S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;**
prereq Grad student, instr consent ;
Instructor: Victora,Randall H
Description: Student may contact the instructor or department for information.
- EE 5990 Curricular Practical Training**
S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
prereq Grad student, instr consent ;
Instructor: Giannakis,Georgios B
Description: Student may contact the instructor or department for information.
- EE 5990 Curricular Practical Training**
S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
prereq Grad student, instr consent ;
Instructor: Bazargan,Kia
Description: Student may contact the instructor or department for information.
- EE 5990 Curricular Practical Training**
S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
prereq Grad student, instr consent ;
Instructor: Roychowdhury,Jaijeet
Description: Student may contact the instructor or department for information.
- EE 5990 Curricular Practical Training**
S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
prereq Grad student, instr consent ;
Instructor: Jacobs,Heinrich Otto Heiko
Description: Student may contact the instructor or department for information.
- EE 5990 Curricular Practical Training**
S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
prereq Grad student, instr consent ;
Instructor: Roumeliotis,Stergios
Description: Student may contact the instructor or department for information.
- EE 5990 Curricular Practical Training**
S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
prereq Grad student, instr consent ;
Instructor: Wang,Jianping
Description: Student may contact the instructor or department for information.
- EE 5990 Curricular Practical Training**
S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
prereq Grad student, instr consent ;
Instructor: Amin,Massoud
Description: Student may contact the instructor or department for information.
- EE 5990 Curricular Practical Training**
S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
prereq Grad student, instr consent ;
Instructor: Luo,Zhi-Quan
Description: Student may contact the instructor or department for information.
- EE 5990 Curricular Practical Training**
S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
prereq Grad student, instr consent ;
Instructor: He,Bin
Description: Student may contact the instructor or department for information.
- EE 5990 Curricular Practical Training**
S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
prereq Grad student, instr consent ;
Instructor: 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;
prereq Grad student, instr consent ;
Instructor: Kim,Chris H.
Description: Student may contact the instructor or department for information.
- EE 5990 Curricular Practical Training**
S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
prereq Grad student, instr consent ;
Instructor: 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;
prereq Grad student, instr consent ;
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;
prereq Grad student, instr consent ;
Instructor: Oh,Sang-Hyun
Description: Student may contact the instructor or department for information.
- EE 5990 Curricular Practical Training**
S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
prereq Grad student, instr consent ;
Instructor: salapaka,murti v
Description: Student may contact the instructor or department for information.
- EE 8231 Optimization Theory**
3 credit(s); prereq instr consent ;
Instructor: Luo,Zhi-Quan
Description: Student may contact the instructor or department for information.
- EE 8235 Advanced Control Topics**
3 credit(s);
Instructor: Georgiou,Tryphon T
Description: Student may contact the instructor or department for information.
- EE 8940 Special Investigations**
1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: Imbertson,Paul Jay
Description: Student may contact the instructor or department for information.
- EE 8940 Special Investigations**
1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: Ernie,Douglas
Description: Student may contact the instructor or department for information.
- EE 8940 Special Investigations**
1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: 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; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: Rennolet,Charles Leon
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations

1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: Ottesen,Hal
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations

1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: Gopinath,Anand
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations

1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: Tewfik,Ahmed Hossam
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations

1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: Sapiro,Guillermo R
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations

1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: Sapatnekar,Sachin Suresh
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations

1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: 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; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: Wollenberg,Bruce F
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations

1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: 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; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: Parhi,Keshab K.
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations

1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: Harjani,Ramesh
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations

1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: Cohen,Philip I
Description: Student may contact the instructor or department

for information.

EE 8940 Special Investigations

1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: Ruden,P Paul
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations

1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: Georgiou,Tryphon T
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations

1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: Stadler,Bethanie J. Hills
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations

1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: 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; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
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; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
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; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: Mohan,Ned
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations

1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: 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; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: Cherkassky,Vladimir S
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations

1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: Holte,James Edward
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations

1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;

Instructor: Campbell, Stephen A

Description: Student may contact the instructor or department for information.

1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3

cr [may be repeated for cr]; IT grad student or instr consent;

Instructor: Roychowdhury, Jaijeet

Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations

1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3

cr [may be repeated for cr]; IT grad student or instr consent;

Instructor: 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; prereq 1-3

cr [may be repeated for cr]; IT grad student or instr consent;

Instructor: Jacobs, Heinrich Otto Heiko

Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations

1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3

cr [may be repeated for cr]; IT grad student or instr consent;

Instructor: 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; prereq 1-3

cr [may be repeated for cr]; IT grad student or instr consent;

Instructor: Roumeliotis, Stergios

Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations

1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3

cr [may be repeated for cr]; IT grad student or instr consent;

Instructor: 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; prereq 1-3

cr [may be repeated for cr]; IT grad student or instr consent;

Instructor: Wang, Jianping

Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations

1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3

cr [may be repeated for cr]; IT grad student or instr consent;

Instructor: 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; prereq 1-3

cr [may be repeated for cr]; IT grad student or instr consent;

Instructor: Amin, Massoud

Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations

1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3

cr [may be repeated for cr]; IT grad student or instr consent;

Instructor: Sobelman, Gerald Edward

Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations

1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3

cr [may be repeated for cr]; IT grad student or instr consent;

Instructor: Luo, Zhi-Quan

Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations

1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3

cr [may be repeated for cr]; IT grad student or instr consent;

Instructor: Leger, James Robert

Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations

1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3

cr [may be repeated for cr]; IT grad student or instr consent;

Instructor: He, Bin

Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations

1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3

cr [may be repeated for cr]; IT grad student or instr consent;

Instructor: 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; prereq 1-3

cr [may be repeated for cr]; IT grad student or instr consent;

Instructor: Jindal, Nihar

Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations

1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3

cr [may be repeated for cr]; IT grad student or instr consent;

Instructor: 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; prereq 1-3

cr [may be repeated for cr]; IT grad student or instr consent;

Instructor: Kim, Chris H.

Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations

1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3

cr [may be repeated for cr]; IT grad student or instr consent;

Instructor: Giannakis, Georgios B

Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations

1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3

cr [may be repeated for cr]; IT grad student or instr consent;

Instructor: Jovanovic, Mihailo

Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations

1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3

cr [may be repeated for cr]; IT grad student or instr consent;

Instructor: Bazargan, Kia

Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations

1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3

cr [may be repeated for cr]; IT grad student or instr consent;

Instructor: Riedel, Marc

Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations

EE 8940 Special Investigations

1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: Oh,Sang-Hyun
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations

1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: Yoon,Euisik
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations

1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: salapaka,murti v
Description: Student may contact the instructor or department for information.

EE 8950 Advanced Topics in Electrical and Computer Engineering

1-3 credit(s), max credits 12, 4 completions allowed; prereq Cr ar [may be repeated for cr]; instr consent;
Instructor: Sapiro,Guillermo R
Description: Student may contact the instructor or department for information.

EE 8950 Advanced Topics in Electrical and Computer Engineering

1-3 credit(s), max credits 12, 4 completions allowed; prereq Cr ar [may be repeated for cr]; instr consent;
Instructor: Gebre Egziabher, Demoz
Description: Student may contact the instructor or department for information.

EE 8950 Advanced Topics in Electrical and Computer Engineering

1-3 credit(s), max credits 12, 4 completions allowed; prereq Cr ar [may be repeated for cr]; instr consent;
Instructor: Gebre Egziabher, Demoz
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I

3 credit(s); prereq Grad EE major;
Instructor: Imbertson,Paul Jay
Description: Student may contact the instructor or department for information.

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Description: Student may contact the instructor or department for information.

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EE 8965 Plan C Project I

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Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I

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Description: Student may contact the instructor or department for information.

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Description: Student may contact the instructor or department for information.

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Description: Student may contact the instructor or department for information.

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Instructor: Leger, James Robert

Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I

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Instructor: Franklin, Rhonda R.

Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I

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Instructor: Ebbini, Emad S

Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I

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Description: Student may contact the instructor or department for information.

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Instructor: Giannakis, Georgios B

Description: Student may contact the instructor or department for information.

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Description: Student may contact the instructor or department for information.

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Instructor: Roychowdhury, Jaijeet

Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I

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Instructor: Jacobs, Heinrich Otto Heiko

Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I

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Instructor: Roumeliotis, Stergios

Description: Student may contact the instructor or department for information.

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Instructor: Jovanovic,Mihailo

Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I

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EE 8965 Plan C Project I

3 credit(s); prereq Grad EE major;

Instructor: salapaka,murti v

Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II

1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;

Instructor: Imbertson,Paul Jay

Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II

1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;

Instructor: Ernie,Douglas

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EE 8967 Plan C Project II

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EE 8967 Plan C Project II

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EE 8967 Plan C Project II

1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;

Instructor: Gopinath,Anand

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EE 8967 Plan C Project II

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Instructor: Tewfik,Ahmed Hossam

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EE 8967 Plan C Project II

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Instructor: Sapiro,Guillermo R

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EE 8967 Plan C Project II

1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;

Instructor: Sapatnekar,Sachin Suresh

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EE 8967 Plan C Project II

1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;

Instructor: Moon,Jaekyun

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EE 8967 Plan C Project II

1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;

Instructor: Wollenberg,Bruce F

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Description: Student may contact the instructor or department for information.

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Instructor: Harjani,Ramesh

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EE 8967 Plan C Project II

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EE 8967 Plan C Project II

1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
Instructor: Higman, Ted King
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EE 8967 Plan C Project II

1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
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Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II

1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
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EE 8967 Plan C Project II

1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
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EE 8967 Plan C Project II

1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
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Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II

1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
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Description: Student may contact the instructor or department for information.

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1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
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1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
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Instructor: Hubel, Allison
Description: Student may contact the instructor or department

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EE 8967 Plan C Project II

1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
Instructor: Kinney, Larry L
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II

1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
Instructor: Kieffer, John C
Description: Student may contact the instructor or department for information.

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1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
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EE 8967 Plan C Project II

1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
Instructor: Leger, James Robert
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II

1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
Instructor: Franklin, Rhonda R.
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II

1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
Instructor: Ebbini, Emad S
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II

1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
Instructor: 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; prereq EE grad student;
Instructor: Giannakis, Georgios B
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II

1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
Instructor: Bazargan, Kia
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II

1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;

Instructor: Roychowdhury,Jaijeet

Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II

1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;

Instructor: Jacobs,Heinrich Otto Heiko

Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II

1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;

Instructor: Roumeliotis,Stergios

Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II

1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;

Instructor: Wang,Jianping

Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II

1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;

Instructor: Amin,Massoud

Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II

1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;

Instructor: Luo,Zhi-Quan

Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II

1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;

Instructor: He,Bin

Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II

1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;

Instructor: 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; prereq EE grad student;

Instructor: Kim,Chris H.

Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II

1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;

Instructor: Jovanovic,Mihailo

Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II

1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;

Instructor: Riedel,Marc

Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II

1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;

Instructor: Oh,Sang-Hyun

Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II

1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;

Instructor: Yoon,Euisik

Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II

1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;

Instructor: salapaka,murti v

Description: Student may contact the instructor or department for information.

EE 8970 Graduate Seminar I

S-N only, 1 credit(s), max credits 3, 3 completions allowed; prereq Grad student;

Instructor: Ebbini,Emad S

Description: Student may contact the instructor or department for information.

Emergency Health Services 20 Classroom Office Building

EHS 3112 First Responder for Coaches and Athletic Trainers

A-F only, 3 credit(s); prereq Jr or sr;

Instructor: Mc Neil MA,Mary Ann

Description: This nationally recognized curriculum is taught according to the standards of the Department of Transportation (USDOT). It is presented in an interactive and small group format to prepare students to work at the level of First Responder, the first level in the EMS chain of emergency care delivery. Certification includes: AHA-BLS for Health Care Providers and USDOT First Responder. Includes: Patient assessment, airway management, trauma care and critical thinking.

Style: 30% Lecture, 5% Film/Video, 30% Laboratory, 30% Small Group Activities, 5% Guest Speakers. This course is scenario based learning. Every class will contain 1/2 didactic presentations, 1/2 activities.

Grading: 20% final exam, 20% quizzes, 10% in-class presentation, 25% class participation, 25% laboratory evaluation. Student may not miss >3 class sessions. This will result in dismissal from the course.

Exam Format: Combination written/practicalskills demonstration.

EHS 3112 First Responder for Coaches and Athletic Trainers

A-F only, 3 credit(s); prereq Jr or sr;

Instructor: Omodt,Steven

Description: This nationally recognized curriculum is taught according to the standards of the Department of Transportation (USDOT). It is presented in an interactive and small group format to prepare students to work at the level of First Responder, the first level in the EMS chain of emergency care delivery. Certification includes: AHA-BLS for Health Care Providers and USDOT First Responder. Includes: Patient assessment, airway management, trauma care and critical thinking.

EHS 3312 Emergency Medical Technician

A-F only, 6 credit(s); prereq Jr or sr;

Instructor: Mc Neil MA,Mary Ann

Description: Successful completion of this course will make student eligible to take the National Registry for EMT(NREMT) test. Knowledge and practical experience to make competent decisions regarding treatment of medical and trauma patients at the basic life support level, as set forth by the Department of Transportation. Includes: patient assessment; airway management; AHA basic life support for health professionals;

trauma management; medical emergencies management; mass casualty and bio-terrorism response, critical thinking and decision -making.

Style: 30% Lecture, 5% Film/Video, 50% Small Group Activities, 10% Guest Speakers, 5% Service Learning. Class consists of 1/2 didactic presentations, 1/2 small group skills/scenario practice.

Grading: 15% mid exam, 15% final exam, 20% quizzes, 10% attendance, 10% class participation, 30% other evaluation. Students will be assessed on their class participation and clinical skills performance. This makes up 50% of the grade; additional 50% is a combination of all the quizzes and exams. > 3 absences will result in termination from course.

Exam Format: Written test and clinical skills performance.

EHS 4999 Practicum

A-F only, 1-3 credit(s), max credits 9, 3 completions allowed; prereq EHS;

Instructor: Mc Neil MA, Mary Ann

Description: This course is designed as an "on the job" paid or volunteer experience with an EMS transport service or emergency department. Individuals arrange for 1-3 credits of experience. Available to students who have completed EHS 3312/EMT. It is the student's responsibility to arrange volunteer or paid position for this practicum. Approximately 60% of the course work should be clinical performance; 20% self-reflective journal and research/scholarly reading and reporting; 20% scholarly paper. Contact Mary Ann McNeil @ mcnei003@umn.edu for application/contract.

Style: 5% Discussion, 5% Student Presentation, 60% Service Learning. Student will meet with instructor several times throughout semester to discuss experience and present written work.

Grading: 25% reports/papers, 25% journal, 50% other evaluation. Student will receive an evaluation of performance from the site where they work/volunteer.

Exam Format: There is no formal didactic exam.

A-F only, 1 credit(s); prereq 5330;

Instructor: McClanahan, Scott B

Description: Student may contact the instructor or department for information.

ENDO 8001 Research in Endodontics

1-2 credit(s), max credits 2, 1 completion allowed; prereq dept consent;

Instructor: Edmunds, Robert Sprague

Description: Student may contact the instructor or department for information.

ENDO 8004 Research in Endodontics

1-2 credit(s), max credits 2, 1 completion allowed; prereq dept consent;

Instructor: Bowles, Walter Ray

Description: Student may contact the instructor or department for information.

ENDO 8310 Literature Review

A-F only, 2 credit(s); prereq dept consent;

Instructor: Baisden, Michael Kenneth

Description: Student may contact the instructor or department for information.

ENDO 8312 Literature Review

A-F only, 2 credit(s); prereq 8311;

Instructor: Baisden, Michael Kenneth

Description: Student may contact the instructor or department for information.

ENDO 8320 Advanced Endodontic Lecture

A-F only, 1 credit(s); prereq dept consent;

Instructor: Bowles, Walter Ray

Description: Student may contact the instructor or department for information.

ENDO 8322 Advanced Endodontic Lecture

A-F only, 1 credit(s); prereq 8321;

Instructor: Bowles, Walter Ray

Description: Student may contact the instructor or department for information.

Endodontics

15-209 Moos T

ENDO 5305 Advanced Clinical Endodontics

A-F only, 1-6 credit(s), max credits 6; prereq 5304;

Instructor: Baisden, Michael Kenneth

Description: Student may contact the instructor or department for information.

ENDO 5308 Advanced Clinical Endodontics

A-F only, 1-6 credit(s), max credits 6; prereq 5307, dept consent ;

Instructor: Baisden, Michael Kenneth

Description: Student may contact the instructor or department for information.

ENDO 5312 Advanced Endodontic Emergency

S-N only, 1 credit(s); prereq 5311;

Instructor: Bowles, Walter Ray

Description: Student may contact the instructor or department for information.

ENDO 5315 Advanced Endodontic Emergency

S-N only, 1 credit(s); prereq 5314, dept consent ;

Instructor: Bowles, Walter Ray

Description: Student may contact the instructor or department for information.

ENDO 5329 Review of Cases

A-F only, 1 credit(s); prereq dept consent ;

Instructor: McClanahan, Scott B

Description: Student may contact the instructor or department for information.

ENDO 5331 Review of Cases

English as a Second Language

101 Wesbrook Hall

ESL 111 Beginning Grammar

S-N only, 0 credit(s), 4 completions allowed; prereq

Nonnative English speaker;

Instructor: STAFF

Description: The course helps students refine and extend their skills in using basic grammar. The focus is on understanding and using fundamental grammatical structures at the sentence level. It includes topics such as verb tenses, questions, comparison, and article usage. Students study the use of word forms and grammatical structures in readings and conversations, practice in controlled speaking and writing exercises, and communicate with their classmates and teacher about topics of interest.

ESL 121 Beginning Reading and Composition

S-N only, 0 credit(s), 4 completions allowed; prereq

Nonnative English speaker;

Instructor: STAFF

Description: In this level 1 intensive reading and writing course for non-native speakers of English, students will improve reading comprehension by using strategies to identify the topic, main idea and details of adapted academic and general interest texts. Students will also choose books of interest to read for pleasure. In addition, students will develop informal and formal writing skills by writing weekly journal entries and four to five multi-draft papers of one or more paragraphs. In writing, students will work on developing content and organization as well as grammatical

accuracy. Discussion and vocabulary development are included.
Exam Format: Short answer

ESL 181 Beginning Integrated English

S-N only, 0 credit(s), 3 completions allowed; prereq Nonnative English speaker;
Instructor: STAFF

Description: The course focuses primarily on listening and speaking, with some reading, writing, and grammar. The text, which emphasizes high-frequency vocabulary and sentence patterns as they are used in real-life situations. Students will practice skills such as starting and maintaining a conversation and using "echo" questions to check information. The course will emphasize the active use of language, as students share information with classmates, using new skills and vocabulary.

ESL 193 Pronunciation

S-N only, 0 credit(s), 4 completions allowed; prereq Nonnative English speaker;
Instructor: STAFF

Description: Course content and activities center around improving the production and perception of the sounds of the English language: individual sounds, rhythm, intonation, word and sentence stress, and linking phenomena in fast speech.

ESL 411 Intermediate Grammar

S-N only, 0 credit(s), 4 completions allowed; prereq Non-native speaker of English;
Instructor: STAFF

Description: The course helps students build on their skills in basic grammar, adding to their range and accuracy at the paragraph level. Topics are likely to include the present perfect tense, gerunds and infinitives, modals, and comparative and superlative forms. Students study the use of word forms and grammatical structures in readings and conversations, practice in controlled speaking and writing assignments, and communicate with their classmates and teacher about topics of interest.

ESL 421 Intermediate Reading and Composition

S-N only, 0 credit(s), 4 completions allowed; prereq Nonnative English speaker;
Instructor: STAFF

Description: The purpose of this level 2 course is to help non-native speakers of English improve reading and writing skills in English. Students will read academic and non-academic texts about a variety of topics. Students will practice effective reading strategies as they read and discuss in class, and they will improve writing proficiency and strengthen grammar and vocabulary skills. In writing, students will work on topic sentences, paragraph and essay development and improving their accuracy in written English through informal writing, such as journals, and in more formal academic writing of multi-draft papers.

ESL 431 Intermediate Oral Skills

S-N only, 0 credit(s), 4 completions allowed; prereq Nonnative English speaker;
Instructor: STAFF

Description: The text is organized around broad themes like global business, art, states of consciousness, and addictive substances. The course emphasizes listening and speaking equally, and the two skills are integrated: students will talk about what they have listened to. In listening, students work on broad skills such as understanding main ideas and narrower skills like distinguishing between similar-sounding words. In speaking, they work on such skills as conversation, asking questions to confirm understanding, and expressing opinions. There is some attention to pronunciation and vocabulary development. The course helps students with general everyday English, broadcast English, and academic English.

Style: 20% Lecture, 65% Discussion, 15% Laboratory.
Grading: 25% special projects, 15% quizzes, 25% in-class presentation, 25% class participation, 10% laboratory evaluation.
Exam Format: Short answers

ESL 600 Business English

S-N only, 0 credit(s); prereq Non-native speaker of English; see Minnesota English Language Program;
Instructor: STAFF

Description: This course is designed for intermediate and advanced students who want to improve their communication in a business setting. The class focuses on English as it is used in a variety of professional contexts. The class focuses on presentation skills, pronunciation development, specialized language skills for networking, conducting and participating in successful business meetings, telephoning, writing email and other professional communication.

ESL 601 TOEFL Preparation

S-N only, 0 credit(s);
Instructor: STAFF

Description: Learn important test-taking skills in preparation for taking the internet-based Test of English as a Foreign Language (TOEFL iBT). Intensive review of the four skills assessed on this exam: reading, written expression, listening, and speaking. While this course focuses on the TOEFL (iBT), the test taking skills and language review covered in this course would also be useful if you are preparing to take the paper-based TOEFL, IELTS, or MELAB exams.

ESL 611 Advanced Grammar

S-N only, 0 credit(s); prereq Nonnative English speaker;
Instructor: STAFF

Description: Students review and solidify their understanding and control of English grammar in writing and speaking. The focus is on grammar in context at the multi-paragraph level. Topics include verb tenses, noun clauses, the passive voice, conditionals, and 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.
Style: 20% Lecture, 70% Discussion, 10% Laboratory.
Grading: 20% final exam, 25% quizzes, 5% laboratory evaluation, 50% other evaluation. Homework
Exam Format: Variety of formats.

ESL 621 Advanced Reading Composition: The Written Word

S-N only, 0 credit(s), 4 completions allowed; prereq Nonnative English speaker;
Instructor: STAFF

Description: ESL 621 is a Level 3 intensive reading and writing course for non-native speakers of English. Students will practice reading skills including skimming, scanning, previewing, predicting content, making inferences, and distinguishing fact from opinion. Students will practice writing skills including paraphrasing and summarizing, editing and proofreading their own and others' work, and selecting and incorporating sources. Students will learn to employ a process approach to writing, and will progress from developing paragraphs to developing academic essays employing appropriate rhetorical modes.

ESL 631 Advanced Oral Skills

S-N only, 0 credit(s), 4 completions allowed; prereq Nonnative English speaker;
Instructor: STAFF

Description: The text is organized around themes of business, media studies, science, psychology, and art & design. Students will listen to academic lectures, take notes and discuss the lectures. The course also supplies help with the academic language to expect and use in these situations. There may be additional work with pronunciation. Students may do individual and group presentations on related topics.

ESL 700 Topics in the Media

S-N only, 0 credit(s), 4 completions allowed; prereq Nonnative English speaker;
Instructor: STAFF

Description: This course is as an integrated-skills class with an emphasis on reading and discussion. It includes some listening, presentation skills, and writing. The text features articles from the International Herald Tribune on topics related to business, technology, the arts, and more. Material from other sources is

included, and student interest may determine some of the topics chosen. Activities include reading, discussion, and doing projects such as surveys or other investigations and reporting back to the class.

ESL 711 English Grammar for Academic Purposes

S-N only, 0 credit(s), 4 completions allowed; prereq

Non-native speaker of English;

Instructor: STAFF

Description: This course focuses on increasing students' accuracy and range in English grammar. Topics that are especially relevant to academic writing, such as conciseness and smooth connections between sentences, are emphasized. Among the traditional topics of grammar, these are likely to be 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 721 High Advanced Reading/Composition

S-N only, 0 credit(s), 4 completions allowed; prereq

Non-native speaker of English;

Instructor: STAFF

Description: ESL 721 is a Level 4 course for non-native speakers of English that builds and refines advanced-level reading, writing, and critical thinking skills including audience awareness and incorporating sources. In this course students will read essays and articles on a variety of topics from multiple sources. Students will improve their ability to identify main ideas and details, analyze and critique support, and respond with their own ideas in writing and discussion. Students will write three multi-draft papers: a personal experience essay, an argumentative essay, and a research report. Students will also develop informal writing skills.

Exam Format: Variety

ESL 731 High Advanced Oral Skills

S-N only, 0 credit(s), 4 completions allowed; prereq

Non-native speaker of English;

Instructor: STAFF

Description: The textbook is organized around topics of anthropology, economics, literature and ecology and uses a variety of styles (social language, broadcast English, and academic English). This course focuses on increasing students' listening and speaking skills including some pronunciation and academic note-taking. Students may do individual and group presentations on related topics.

ESL 781 Academic Writing

S-N only, 0 credit(s), 30 completions allowed; prereq

Nonnative English speaker;

Instructor: STAFF

Description: ESL 781 is a course for non-native speakers of English that teaches students how to recognize and use different patterns of development in writing (such as narration, exemplification, and cause and effect) to deepen and extend ideas in various types of academic writing tasks. Guided textual analyses of readings are used to stimulate classroom discussions of shared topics and to support developing writing skills through close observation of rhetorical strategies employed by accomplished writers. Typical assignments include argumentative essays, reviews or opinion essays, short research papers, and possible independent assignments based on the specific needs of individual students.

ESL 785 Speaking for Academic Purposes

S-N only, 0 credit(s); prereq Non-native English speaker;

Instructor: STAFF

Description: Course activities focus on academic interactions such as lectures, presentations, seminar-style discussions, informal exchanges. Students will learn to present themselves professionally/socially in collegiate settings.

ESL 3101 Advanced English Grammar

4 credit(s), max credits 8; prereq dept consent , non-native speaker of English, [C-TOEFL score 153-187 or equiv], ESL program consent;

Instructor: STAFF

Description: This course for academic credit is designed for students already enrolled in degree programs at the University of Minnesota to work on polishing their English skills. Students review and solidify their understanding and control of English grammar in writing and speaking. The focus is on grammar in context at the multi-paragraph level. Topics include verb tenses, noun clauses, the passive voice, conditionals, and adjective clauses. This knowledge is applied to development of revision and editing skills in the writing process. Written assignments and oral practice help students communicate their ideas more accurately and confidently.

ESL 3102 English Grammar for Academic Purposes

4 credit(s), max credits 8; prereq 3101, [Non-native speaker of English, [C-TOEFL score of at least 190 or equiv], dept consent ;

Instructor: STAFF

Description: This course 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 3201 Advanced English Reading and Composition

5 credit(s), max credits 10; prereq Non-native speaker of English, [iBT score of 53-67 or equiv], dept consent ;

Instructor: STAFF

Description: This is an intensive reading and writing course for non-native speakers of English who are studying in degree programs at the University of Minnesota. Students will practice reading skills including skimming, scanning, previewing, predicting content, making inferences, and distinguishing fact from opinion. Students will practice writing skills including paraphrasing and summarizing, editing and proofreading their own and others' work, and selecting and incorporating sources. Students will learn to employ a process approach to writing, and will progress from developing paragraphs to developing academic essays employing appropriate rhetorical modes.

ESL 3202 Academic Reading and Composition

5 credit(s), max credits 10; prereq 3201, Non-native speaker of English, [iBT score of at least 68 or equiv], dept consent ;

Instructor: STAFF

Description: This is a course for non-native speakers of English who are in university degree programs that builds and refines advanced-level reading, writing, and critical thinking skills including audience awareness and incorporating sources. In this course students will read essays and articles on a variety of topics from multiple sources. Students will improve their ability to identify main ideas and details, analyze and critique support, and respond with their own ideas in writing and discussion. Students will write three multi-draft papers: a personal experience essay, an argumentative essay, and a research report. Students will also develop informal writing skills.

ESL 3302 Writing for Academic Purposes

4 credit(s), max credits 8; prereq 3202, non-native speaker of English, [C-TOEFL score of at least 190 or equiv], dept consent ;

Instructor: STAFF

Description: This is a course for non-native speakers of English

who are in university degree programs that builds and refines advanced-level reading, writing, and critical thinking skills including audience awareness and incorporating sources. In this course students will read essays and articles on a variety of topics from multiple sources. Students will improve their ability to identify main ideas and details, analyze and critique support, and respond with their own ideas in writing and discussion. Students will write three multi-draft papers: a personal experience essay, an argumentative essay, and a research report. Students will also develop informal writing skills.

ESL 3501 Advanced English Listening and Speaking

5 credit(s), max credits 10; prereq Non-native speaker of English, [iBT score 53-67 or equiv], dept consent ;

Instructor: STAFF

Description: Student may contact the instructor or department for information.

ESL 3502 Academic Listening and Speaking

5 credit(s), max credits 10; prereq 3501, non-native speaker of English, [iBT score of at least 68 or equiv], dept consent ;

Instructor: STAFF

Description: Student may contact the instructor or department for information.

ESL 3551 English Pronunciation

4 credit(s), max credits 8; prereq Non-native speaker of English, dept consent ;

Instructor: STAFF

Description: Student may contact the instructor or department for information.

ESL 3602 Speaking for Academic Purposes

4 credit(s), max credits 8; prereq 3502, non-native speaker of English, [C-TOEFL score of at least 190 or equiv], dept consent ;

Instructor: STAFF

Description: Student may contact the instructor or department for information.

ESL 3900 Special Topics in ESL

1-5 credit(s), max credits 10; prereq Non-native speaker of English, program consent;

Instructor: STAFF

Description: Student may contact the instructor or department for information.

English: Literature

207 Lind Hall

ENGL 1001W Introduction to Literature: Poetry, Drama, Narrative

4 credit(s); prereq credit will not be granted if credit already received for: ENGL 1001,1002; Credit will not be granted if credit has been received for: ENGL 1001V; Meets CLE req of Literature Core; meets CLE req of Writing Intensive;

Instructor: Pistelli, John Paul

Description: Student may contact the instructor or department for information.

ENGL 1181W Introduction to Shakespeare

4 credit(s); prereq credit will not be granted if credit already received for: ENGL 1181, 1182; Credit will not be granted if credit has been received for: ENGL 1181V; Meets CLE req of Literature Core; meets CLE req of Writing Intensive;

Instructor: Clayton, Tom

Description: Unlike you, Shakespeare hadn't the benefit of "writing-enriched" courses, but he did all right and better, as you will read for yourself. Reading and understanding his plays is indispensable for any real experience of them, and is the gateway also to a complex world of action very like our own and a vast range of cultural expression that began with him. Without Shakespeare there would have been no Hamlet to wonder

forever whether "To be or not to be . . ." Shakespeare was born an imaginative genius in an age when a multicultural and hugely expressive Early Modern English was aborning, partly with his help. This enabled the making of a literature and drama of extraordinary richness, social complexity, depth of perception, and even global vision. Shakespeare plays everywhere--and has been especially powerful in Japanese, for example, both in film and on stage. His gift for creating dramatic actions extravagant, disturbing, funny, profound, and searching by turns was complemented by a verbal gift of astonishing scope and wit, whether Hamlet, Ophelia, or a gravedigger speaks. The language may seem remote on first acquaintance, but it comes readily into focus and color for most who are willing to make the effort--and be rewarded forevermore. Seven or eight representative plays, with attention to contemporary contexts and antecedents, continuing social relevance, and some recent productions, with primary emphasis on understanding Shakespeare's text.

Style: 75% Lecture, 20% Discussion, 5% Small Group Activities.

Grading: 15% mid exam, 35% final exam, 35% reports/papers, 15% quizzes.

Exam Format: Some objective questions but substantially essay, typically including analysis of passages, comparison and contrast, and synthesis

ENGL 1181W Introduction to Shakespeare

4 credit(s); prereq credit will not be granted if credit already received for: ENGL 1181, 1182; Credit will not be granted if credit has been received for: ENGL 1181V; Meets CLE req of Literature Core; meets CLE req of Writing Intensive;

Instructor: Hansen, Elisabeth M

Description: Student may contact the instructor or department for information.

ENGL 1301W Introduction to Multicultural Literatures of the United States

4 credit(s); prereq credit will not be granted if credit already received for: ENGL 1301,1302; Credit will not be granted if credit has been received for: ENGL 1301V; Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;

Instructor: STAFF

Description: There can never been one single voice for the American experience, an idea that is illuminated through a study of American multicultural literature. How have African Americans, Latinos/as, Native Americans, and immigrants told of their experiences? How has the struggle for equality found its voice in novels, plays, and testimonies? How does literature both embrace and resist the dominant culture? These questions are answered in diverse ways by such authors as W.E.B. DuBois, Frederick Douglass, Joy Kogawa, Leslie Marmon Silko, and many others.

ENGL 1401W Introduction to "Third World" Literatures in English

4 credit(s); prereq credit will not be granted if credit already received for: ENGL 1401, 1402; Credit will not be granted if credit has been received for: ENGL 1401V; Meets CLE req of International Perspect Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;

Instructor: STAFF

Description: Colonialism, emigration, economics, war, famine, and slavery have worked in combination to make English a language spoken in almost every region of the world. The legacy of these forces is an international Anglophone literature that addresses issues such as displacement and difference, representation, poverty, nationalism, syncretism, and the fight for freedom. The voices that speak to these issues are varied and impressive and students will engage closely and critically with texts of multiple genres from Anglophone Africa, South Asia, and the Caribbean, discovering how the tools of oppression can be used strategically to dismantle the "master's house" and build other houses in its stead. This course will introduce questions raised by the interaction of the "First" and "Third" worlds and create, inevitably, questions about history, politics, social science, and how language operates in the so-called "Third

World."

human-animal interaction.

ENGL 1501W Literature of Public Life

A-F only, 4 credit(s); prereq credit will not be granted if credit already received for: ENGL 1501; Meets CLE req of Citizenship/Public Ethics Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: STAFF

Description: How has American literature addressed what it means to be a citizen? English 1501 examines literature written with the intent to leave an impression: works that have stunned, mobilized, stimulated, and galvanized the American public. The course is dialectical, setting diverse works against one another to form a dialogue that extends across chronological, geographic, and racial boundaries. "Literature" is defined broadly to include novels, speeches, essays, testimonies, sermons, plays, music, photography, and film. Recent readings have included Uncle Tom's Cabin, Maggie: A Girl of the Streets, The Souls of Black Folk, Twilight: Los Angeles, 1992, and Nickel and Dimed: On (Not) Getting By in America. This course doesn't sit on the shelf: it will ask students to examine and engage with the world around them.

ENGL 1701 Modern Fiction

3 credit(s); Credit will not be granted if credit has been received for: ENGL 1701H; Meets CLE req of Literature Core;
Instructor: STAFF

Description: English 1701 provides an introduction to short stories and novels written after 1900, both in English originally, and in translation. During this time period, fascinating writers have graced the literary scene, including John Cheever, Ernest Hemingway, Franz Kafka, William Faulkner, Zora Neale Hurston, and James Baldwin. These are among the authors students are likely to study in Modern Fiction. Generally, the course is based around four to five novels and several short stories. This allows for slightly more time to be spent within each work than is often granted in broad survey courses. Because of the in-depth nature of this study, students learn to identify and analyze such elements of fiction as theme, genre, structure, form, language, and context.

ENGL 1905 Topics: Freshman Seminar: On the Day You Were Born

A-F only, 3 credit(s); prereq freshman;
Instructor: Garner, Shirley Nelson

Description: Focusing on autobiography and memoir, this seminar will offer students the opportunity to explore their identity and place. It will ask them to set their memories and impressions against the history of their time and place and by so doing to enhance their understanding of both. The works we will read treat in various ways the experience of "growing up," the relationship between history and memory, and the meaning of place "within a family, a town or city, and a country, or as otherwise understood and defined. The seminar will prepare students to write a culminating essay in which they look at the beginning of their lives from a local as well as a broader perspective.

ENGL 1905 Topics: Freshman Seminar: The Animal

A-F only, 3 credit(s); prereq freshman;
Instructor: Marran, Christine L

Description: The animal has recently come into focus as a subject of intellectually varied and stimulating scholarly attention in the humanities, making this in a sense, a time of the animal. But it is also a time for the animal? a time of unprecedented extinctions and once unimaginable abuses (witness the recent growth of a factory-farming system likened by some to Nazi concentration camps). In this seminar we will follow this turn toward the animal, asking along the way some fundamental questions: What is an animal? What makes the difference between human and animal? What constitutes human ethical treatment of animals? How have philosophers engaged the animal and to what ends? And finally, how has the animal been understood differently over time? We will read (novels, newspapers, philosophy), watch films (Grizzly Man, Balthazar, The Eel, The Cow), and possibly take field trips to sites of

ENGL 1907W Topics: Freshman Seminar: Social Texts

A-F only, 3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Writing Intensive;
Instructor: Messer-Davidow, Ellen

Description: This seminar will introduce students to some of the historical principles inscribed in the U.S. Constitution, state constitutions, and major statutes, and show how they play out in flashpoint contemporary issues. Students will read and evaluate a variety of materials including government documents, NGO reports, academic scholarship, journalism, and personal narratives/ethnographies; or, put another way, statistical studies and stories, precise analyses and partisan polemics, formal text, and popular discourse. Topics will include economic inequality, K-12 education, religion, and equal rights. Students will develop close reading and careful evaluation skills to help them become not only more engaged college students, but also engaged citizens.

ENGL 1910W Topics: Freshman Seminar: Hip-Hop as Academic Inquiry

A-F only, 3 credit(s); prereq freshman; Meets CLE req of Writing Intensive;

Instructor: Sirc, Geoffrey Michael

Description: Yo, yo, yo, what's up with, rap music? Social blight or great art? Are the haters right or does hip hop keep it real? For that matter, just what does hip hop mean by "real"? Is 50 Cent's "real" the same as Talib Kweli's? And where did hip hop even come from? In this course, we'll take a VERY close look at hip hop, and as we do so, we'll learn how academic inquiry works at the University. Hip Hop is an exceptionally fruitful topic for scholarly study in the way it offers a variety of research "portals": not just the aesthetics of beats and rhymes, but issues of race, gender, sexuality, economics, marketing, fashion, violence, media representation, the history of American popular culture, and a host of others. We'll get our research on and read, write, listen, and watch our way to bangin' critical insight.

ENGL 3001V Honors: Textual Analysis, Methods

A-F only, 4 credit(s); prereq Honors, [English major or minor or approved BIS or IDIM program with English area] credit will not be granted if credit already received for: ENGL 3001, 3801; Credit will not be granted if credit has been received for: ENGL 3001W; Meets CLE req of Writing Intensive;

Instructor: Craig, Siobhan S

Description: Student may contact the instructor or department for information.

ENGL 3001W Textual Analysis: Methods

A-F only, 4 credit(s); prereq English major or minor or premajor or BIS/IDIM-English credit will not be granted if credit already received for: ENGL 3001, 3801; Credit will not be granted if credit has been received for: ENGL 3001W; Meets CLE req of Writing Intensive;

Instructor: Johnson McGarry PhD, Elizabeth M

Description: Student may contact the instructor or department for information.

ENGL 3001W Textual Analysis: Methods

A-F only, 4 credit(s); prereq English major or minor or premajor or BIS/IDIM-English credit will not be granted if credit already received for: ENGL 3001, 3801; Credit will not be granted if credit has been received for: ENGL 3001W; 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); prereq English major or minor or premajor or BIS/IDIM-English credit will not be granted if credit already received for: ENGL 3001, 3801; Credit will not be granted if credit has been received for: ENGL 3001W; Meets CLE req of Writing Intensive;

Instructor: Sugnet, Charles J

Description: The class will start with portions of Terry Eagleton's very readable *Literary Theory*, together with excerpts from Gauri Viswanathan and others, to familiarize students with the major contemporary schools of thought about what "literature" is for and how texts should be read. We will then read several works, probably including Shakespeare's "The Tempest", Aime Cesaire's 1960 rewrite "A Tempest", and J.M. Coetzee's "Foe" (a South African revision of both "Robinson Crusoe" and "The Tempest"). The notion of "literature" will also be broadened and challenged by attention to recorded "dub" poetry, cinema, and video. Writing assignments will consist of a series of shorter papers rather than a single long paper at the end.

ENGL 3001W Textual Analysis: Methods

A-F only, 4 credit(s); prereq English major or minor or premajor or BIS/DIM-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: Kim,Chang-Hee
Description: Student may contact the instructor or department for information.

ENGL 3001W Textual Analysis: Methods

A-F only, 4 credit(s); prereq English major or minor or premajor or BIS/DIM-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: Mrozowski PhD,Daniel Justin
Description: Student may contact the instructor or department for information.

ENGL 3002 Modern Literary Criticism and Theory

3 credit(s); prereq credit will not be granted if credit already received for: EngL 3802; Credit will not be granted if credit has been received for: ENGL 3002H;
Instructor: Hughes,Joseph P
Description: Student may contact the instructor or department for information.

ENGL 3003W Historical Survey of British Literatures I

4 credit(s); prereq credit will not be granted if credit already received for: EngL 3003; Meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive;
Instructor: STAFF

Description: This course, the first in the Survey of British Literature series, introduces students to the literature of the British Isles from the Anglo-Saxon period to the eighteenth century. This broad sweep through time covers the Medieval period, the Renaissance (or, Early Modern Age), Civil Wars, Restoration, and the Enlightenment and provides a fascinating variety of works in a multitude of genres including poetry, drama, plays, novels, essays, autobiography, and speeches. Students will read authors such as Milton, Chaucer, Spenser, Marlowe, and DeFoe, as well as lesser-known writers, thus gaining a more complete understanding of the literature of these periods. Because artistic expression is affected and informed by historical circumstances, texts are placed within their historical moments and considered in terms of their social, political, biographical, and economical contexts and close reading is used to connect features of the texts to their culture in order to gain a greater understanding of both. This course is demanding in its reading and writing requirements, but the variety and complexity of human experiences presented here affords great opportunity for stimulating discussion and thoughtful writing.

ENGL 3004W Historical Survey of British Literatures II

4 credit(s); prereq credit will not be granted if credit already received for: ENGL 3004; Meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive;
Instructor: McNeff,Heather J
Description: Student may contact the instructor or department for information.

ENGL 3004W Historical Survey of British Literatures II

4 credit(s); prereq credit will not be granted if credit already received for: ENGL 3004; Meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive;
Instructor: Mc Naron,Toni A
Description: Student may contact the instructor or department for information.

ENGL 3004W Historical Survey of British Literatures II

4 credit(s); prereq credit will not be granted if credit already received for: ENGL 3004; Meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive;
Instructor: Cox,Ryan Jacob
Description: Student may contact the instructor or department for information.

ENGL 3004W Historical Survey of British Literatures II

4 credit(s); prereq credit will not be granted if credit already received for: ENGL 3004; Meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive;
Instructor: Spuckler,Amanda
Description: Student may contact the instructor or department for information.

ENGL 3005W Survey of American Literatures and Cultures I

4 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: Davis,Abigail F
Description: Student may contact the instructor or department for information.

ENGL 3005W Survey of American Literatures and Cultures I

4 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: Murray,Gregory Kirk
Description: Student may contact the instructor or department for information.

ENGL 3005W Survey of American Literatures and Cultures I

4 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: Mrozowski PhD,Daniel Justin
Description: Student may contact the instructor or department for information.

ENGL 3006W Survey of American Literatures and Cultures II

4 credit(s); prereq credit will not be granted if credit already received for: ENGL 3006; Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: Hengen,Nicholas
Description: Student may contact the instructor or department for information.

ENGL 3006W Survey of American Literatures and Cultures II

4 credit(s); prereq credit will not be granted if credit already received for: ENGL 3006; Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: Anderson,Emily Kathryn
Description: Student may contact the instructor or department for information.

ENGL 3006W Survey of American Literatures and Cultures II

4 credit(s); prereq credit will not be granted if credit already received for: ENGL 3006; Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: Mikos,Keith Michael
Description: Student may contact the instructor or department for information.

ENGL 3007 Shakespeare

A-F only, 3 credit(s); prereq credit will not be granted if credit already received for: EngL 3807; Credit will not be granted if credit has been received for: ENGL 3007H; Meets CLE req of Literature Core;

Instructor: Craig,Lindsay Arnold Ross

Description: Student may contact the instructor or department for information.

ENGL 3007 Shakespeare

A-F only, 3 credit(s); prereq credit will not be granted if credit already received for: EngL 3807; Credit will not be granted if credit has been received for: ENGL 3007H; Meets CLE req of Literature Core;

Instructor: Hirsch,Gordon D

Description: What makes the plays of William Shakespeare popular and interesting nearly 400 year after his death? We will read and discuss approximately ten Shakespeare plays in an effort to answer this question. The readings will represent a variety of genres and the chronological range of Shakespeare's career as a playwright. Likely readings "Romeo and Juliet," "A Midsummer Night's Dream," "Richard II," "As You Like It," "Hamlet," "Twelfth Night," "Macbeth," "The Merchant of Venice," "King Lear," "The Winter's Tale," and "Antony and Cleopatra." This course is a requirement for English majors, but non-majors are welcome too.

Style: 25% Lecture, 75% Discussion.

Grading: 20% final exam, 60% reports/papers, 20% class participation.

Exam Format: Multiple choice and essay on final exam.

ENGL 3007 Shakespeare

A-F only, 3 credit(s); prereq credit will not be granted if credit already received for: EngL 3807; Credit will not be granted if credit has been received for: ENGL 3007H; Meets CLE req of Literature Core;

Instructor: Luke,David B

Description: William Shakespeare: poet, playwright, historian, and source of passionate debate; his cultural importance is the least controversial of the Bard of Avon's qualities. Often called the first 'psychological' writer because of his keen analysis of human motives and emotions, Shakespeare's writings and person provide material for endless study. This course will provide intermediate readers of Shakespeare with a new perspective on the writer, the man, and his body of works, considering him as both a creator and creation of his culture and ours. Attention will be paid to historical context as well as Shakespeare's continuing, contemporary social relevance. Students will develop a variety of critical reading and writing skills and strategies in order to respond thoughtfully and effectively in discussions and their writing. This course will clarify the sometimes challenging and archaic language of Shakespeare's writing while paying attention to recurring themes such as representations of beauty, marriage and death in order to explore the relationships between his diverse works and history.

Style: 75% Lecture, 25% Discussion. selected film clips

Grading: 20% mid exam, 30% final exam, 30% reports/papers, 10% class participation, 10% other evaluation. attendance

Exam Format: analysis of selected passages and/or essays

ENGL 3007 Shakespeare

A-F only, 3 credit(s); prereq credit will not be granted if credit already received for: EngL 3807; Credit will not be granted if credit has been received for: ENGL 3007H; Meets CLE req of Literature Core;

Instructor: Kim,Chang-Hee

Description: Student may contact the instructor or department for information.

ENGL 3007 Shakespeare

A-F only, 3 credit(s); prereq credit will not be granted if credit already received for: EngL 3807; Credit will not be granted if credit has been received for: ENGL 3007H; Meets CLE req of Literature Core;

Instructor: Schumacher-Schmidt,Dana Michelle

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 aims to give the beginning to intermediate reader of Shakespeare a fresh perspective on him as a figure in English-language literary history and on his body of works. We will read a selection of eight plays and consider Shakespeare as a poet and a product of his culture and ours, giving particular attention to generic conventions and innovation, contemporary historical contexts, and Shakespeare's language. We will also consider the ways the meaning of the literary text is compounded by its performance on the English Renaissance stage. After completing the course, you should be able to: --confidently read, comprehend, and analyze Shakespeare's dramatic works --explain the conventions of Renaissance dramatic and poetic genres (e.g., comedy, tragedy, history, romance, and sonnets) and Shakespeare's innovations --identify and explicate the poetic forms common to Shakespeare and Renaissance poetry (e.g., blank verse, iambic pentameter, sonnet forms) --consider Shakespeare's works in light of the historical context of early modern England --find and analyze recent Shakespearean literary scholarship

Style: 100% Web Based.

Grading: Grades are comprised of work that totals 500 points.

--Six online discussion postings--100 points; 20% --Five quizzes--50 points; 10% --Literary analysis paper--100 points; 20% --Research paper--150 points; 30% --Final exam--100 points; 20%

Exam Format: Supervised, in-person (not online) exam

ENGL 3007 Shakespeare

A-F only, 3 credit(s); prereq credit will not be granted if credit already received for: EngL 3807; Credit will not be granted if credit has been received for: ENGL 3007H; Meets CLE req of Literature Core;

Instructor: Carlson,Erik Andrew

Description: Student may contact the instructor or department for information.

ENGL 3007 Shakespeare

A-F only, 3 credit(s); prereq credit will not be granted if credit already received for: EngL 3807; Credit will not be granted if credit has been received for: ENGL 3007H; Meets CLE req of Literature Core;

Instructor: Jones PhD,Timothy S

Description: Student may contact the instructor or department for information.

ENGL 3007H Honors: Shakespeare

A-F only, 3 credit(s); prereq Honors or instr consent credit will not be granted if credit already received for: EngL 3007, 3807; Credit will not be granted if credit has been received for: ENGL 3007; Meets CLE req of Literature Core;

Instructor: Clayton,Tom

Description: Student may contact the instructor or department for information.

ENGL 3010 Studies In Poetry: Some Poems About Some Cities 3 credit(s), max credits 9, 3 completions allowed; Credit will not be granted if credit has been received for: ENGL 3010H;

Instructor: Goldberg,Brian B

Description: EngL 3010: Some Poems About Some Cities EngL 3010 will provide students with the 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 will be on poetry written in English during the 18th, 19th, and 20th centuries, but poetry in translation and poetry from other periods will also be included. Students will be required to do some critical writing and, experimentally, some writing of poetry. Interested students are welcome to contact the instructor, by e-mail, with suggested readings for the course syllabus.

ENGL 3027W The Essay

4 credit(s); Meets CLE req of Writing Intensive;

Instructor: STAFF

Description: This is a course for students ready to face more challenging assignments and deepen their comfort and skill with

writing. The instructor helps the student develop more sophisticated research strategies and experiment with more creative stylistic choices. Assignments might include autobiographies, critical comparisons, reviews of articles or books, cultural analyses, persuasive essays, and annotated bibliographies. Students in this course learn to: Generate topics and develop essays with greater independence than they exercised in freshman composition. Write for multiple audiences -- academic and non-academic -- making appropriate decisions about content, rhetoric, structure, vocabulary, style, and format. Write creative non-fiction and other genres incorporating complex description and analysis. Analyze the conventions and styles of writing in their major field. Experiment with new and more sophisticated writing strategies and styles.

ENGL 3040 Studies in Film: Fascism & Film

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: Student may contact the instructor or department for information.

ENGL 3060 Studies in Literature and the Other Arts: Popular Music & Protest

3 credit(s), max credits 9, 3 completions allowed; Instructor: Brennan,Timothy Andres

Description: Student may contact the instructor or department for information.

ENGL 3090 General Topics: Dracula & Decadence

3 credit(s), max credits 12, 3 completions allowed;

Instructor: Elfenbein,Andrew

Description: This course will examine Bram Stoker's *Dracula* in its original historical setting as a text of the 1890s in Britain. We will consider such contexts as the rise of sexology, the prominence of queer themes in decadent literature, the salience of Oscar Wilde and the Wilde trials, the growth of scientific anthropology and psychology, and the development of a mass literary public. Students will also be expected to do original archival work in primary sources from the period.

Style: 100% Discussion.

ENGL 3090 General Topics: Sicilian Writers

4 credit(s), max credits 12, 3 completions allowed;

Instructor: Fitzgerald,M. J

Description: Some of the most important Italian writers of the 19th and 20th century are from Sicily: by reading them we can get both a snapshot and a cross-section of Italian history and literature. The authors will range from Verga and Pirandello to Lampedusa, Sciascia, Bufalino and the contemporary Maraini and Camilleri. The class will be taught in English, but reading in Italian is encouraged and will be noted for possible extra credit for students who are studying Italian.

ENGL 3090 General Topics: Origins of English Words

3 credit(s), max credits 12, 3 completions allowed;

Instructor: Liberman,Anatoly

Description: Student may contact the instructor or department for information.

ENGL 3090 General Topics: Origins of English Words

3 credit(s), max credits 12, 3 completions allowed;

Instructor: Liberman,Anatoly

Description: Student may contact the instructor or department for information.

ENGL 3090 General Topics: Origins of English Words

3 credit(s), max credits 12, 3 completions allowed;

Instructor: Liberman,Anatoly

Description: Student may contact the instructor or department for information.

ENGL 3090 General Topics: Origins of English Words

3 credit(s), max credits 12, 3 completions allowed;

Instructor: Liberman,Anatoly

Description: Student may contact the instructor or department for information.

for information.

ENGL 3090 General Topics: Muslims & Jews in Early Modern English Lit

3 credit(s), max credits 12, 3 completions allowed;

Instructor: Matar,Nabil I

Description: How did a Londoner view a Muslim or a Jew from the 1590s to the early 1700s? This course examines literary, documentary, and theological texts that furnish an answer to the question. Although Londoners and others in England met more Muslims than Jews, both groups were often lumped together by dramatists and historians alike. We shall start with Marlowe's and Shakespeare's plays (*The Jew of Malta* and *The Merchant of Venice*) and then turn to the surprising depiction of Muslim and Jewish women in three other plays - *Elizabethan*, *Jacobean* and *Caroline*. We will look at the 1655 conference for the readmission of the Jews to England, and the documents and debates that resulted from it, and then focus on the hilarious controversy surrounding the introduction of coffee to England by the *Turks*. The course will end with John Locke's call for the toleration of Muslims and Jews in Britain, and with the autobiography of the first Englishman who converted to Islam, and wrote about his experience. Requirements: Two mid-terms, a research paper, and active class participation.

ENGL 3102 Chaucer

A-F only, 3 credit(s);

Instructor: Farber,Lianna

Description: Geoffrey Chaucer has been considered the "father of English poetry" for almost six hundred years, but just what this approving tag might mean has varied considerably. Some have seen him as a consummate craftsman, others as a deep philosopher, still others as one of the greatest jokers of all times. The Victorians praised his religious stories while excising his bawdy tales of adulterous bed-hopping; later generations found the very fabliaux Victorians censored a salutary antidote to Victorian piety, showing a poet unafraid to engage with the world as it was. Chaucer's writing has been praised by some for its irony, by others for its earnestness; by some for its complex ambiguity, by others for its straightforward way with a good story. In this class we will reach our own conclusions by reading Chaucer's major works, paying attention along the way to his social, political, religious, literary and linguistic milieu.

ENGL 3161H Honors: Victorian Literatures and Cultures

3 credit(s); prereq Honors or instr consent ; Credit will not be granted if credit has been received for: ENGL 3161;

Instructor: Hirsch,Gordon D

Description: We will read and discuss Victorian novels by such authors as Charlotte Bronte, Charles Dickens, Elizabeth Gaskell, Wilkie Collins, Anthony Trollope, George Eliot (Marian Evans), Robert Louis Stevenson, and Thomas Hardy.

Style: 20% Lecture, 60% Discussion, 20% Student Presentation.

Grading: 60% reports/papers, 10% attendance, 10% in-class presentation, 20% class participation.

ENGL 3180H Honors: Contemporary Literatures and Cultures:

The Wilde Nineties

A-F only, 3 credit(s); prereq Honors or instr consent ; Credit will not be granted if credit has been received for: ENGL 3180;

Instructor: Cucullu,Lois B

Description: The Fin de Siecle from 1890 to 1900 remains one of the most raucous and dynamic decades of modernity opening with Oscar Wilde's celebrity and closing with the scandal of his disgrace, imprisonment, and death. In taking into account the great anxiety over decadence and the sex question evident in Wilde's trials, this course aims at a *slice of life*, horizontally and vertically, over a decade that also witnessed such technological wonders as the emergence of cinema and the discovery of ex-rays, revolutions in music and fashion, and an enormous interest in the occult, in such fictions as *Trilby*, *The Turn of the Screw*, *Dracula*, and *The Future Eve*, not to overlook Wilde's own *The Picture of Dorian Gray* and *Salome*. All of this we'll treat to better appreciate the enormous cultural shifts in the literary, material, and technological history of

the decade that resonate down to the present moment.

ENGL 3212 American Poetry from 1900

3 credit(s);

Instructor: STAFF

Description: Student may contact the instructor or department for information.

ENGL 3222 American Novel From 1900

3 credit(s); Credit will not be granted if credit has been received for: ENGL 3222H;

Instructor: Mabie, Joshua David

Description: Student may contact the instructor or department for information.

ENGL 3400 Post-Colonial Literatures: Comparative Diasporic Literatures

3 credit(s), max credits 9, 3 completions allowed; Credit will not be granted if credit has been received for: ENGL 5400;

Instructor: Tinsley, Omise'eke Natasha

Description: "All Women Everywhere"? Postcolonial Women Writers in the 21st Century In September 1995, at the United Nations? Fourth World Conference on Women in Beijing, participants committed that, by the end of the 20th century, all governments should determine to advance the goals of equality, development and peace for all women everywhere in the interest of all humanity. But after the first decade of the 21st century, have these goals been significantly advanced? How do women across the world view their positions as citizens, migrants, workers, parents, activists, and artists in this new millennium? This course explores answers to these questions by engaging literary work published by postcolonial women writers in the past decade. The creative texts that we consider question whether the effects of imperialism have ended in women's lives; whether Western feminisms have developed to address Global Southern women's needs; and what new possibilities for decolonization, feminism, and creativity remain to be explored. Authors considered include Edwidge Danticat, Chimamanda Ngozi Adichie, Monica Ali, Monique Truong, and Nalo Hopkinson.

ENGL 3501 Public Discourse: Coming to Terms With the Environment

3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Literature Core;

Instructor: Philippon, Daniel J

Description: This course explores three significant environmental issues (biodiversity loss, toxic chemicals, and climate change) through the analysis of texts from three different literary genres (fiction, memoir, and nonfiction journalism). It focuses as much on issues of language and meaning as it does on the subjects these texts concern. Students examine the formal dimensions of these texts, as well as their social and historical contexts. In addition, students are introduced to the underlying scientific principles, the limitations of technologies, and the public policy aspects of each of these issues, in order to judge what constitutes an appropriate response to them. Students also learn how to identify and evaluate credible information concerning the environment. The course features many active learning components (small group discussions, work in pairs, and debates), as well as formal and informal writing assignments (4-5 page papers, short reading responses, and online discussion forums).

Style: 40% Lecture, 60% Discussion.

Grading: 75% reports/papers, 15% quizzes, 10% class participation.

Exam Format: short-answer quizzes

ENGL 3505 Community Learning Internships I

A-F only, 3 credit(s);

Instructor: Daigre, Eric Stephen

Description: Since this is the first of a two-semester course, students registering for ENGL 3505 will continue on to ENGL 3506 (Community Learning Internships II). In class, students will explore literacy, educational theory, concepts of civic engagement, as well as the connections between literature and

literacy, theory and practice, community work and academic study. Outside of class, students work 3-4 hours per week at participating nonprofit and educational organizations ranging from K-12 schools to adult education centers. Class presentations. Readings. Weekly reflective and analytical writing assignments will add up to a substantial portfolio. Students receive initial training from Career and Community Learning Center and Minnesota Literacy Council, and orientations at community sites.

ENGL 3592W Introduction to Black Women Writers in the United States

3 credit(s); prereq credit will not be granted if credit already received for: Afro 3592, ENGL 3592; Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;

Instructor: Githire, Njeri R

Description: This course seeks to explore the literary production of North American Black women from diverse backgrounds and perspectives. Through their varied and common experiences of Black females living in a white-male-dominated culture, we will endeavor to understand the social construction of race and gender, as well as their intersection with class and social-economic dynamics. In the Black cultural and literary traditions of truth narratives and transparency, these women share their historical, cultural, and contemporary experiences and insights with verve and authority. At the heart of their literary pursuit is the aspiration to live a more informed, enriched, and inspired life. In so doing, these writers offer us important lessons about creativity, hope, empowerment, courage, and self-expression.

Style: 50% Lecture, 10% Discussion.

Grading: 30% mid exam, 30% final exam, 10% reports/papers, 10% quizzes, 20% class participation.

Exam Format: Essay

ENGL 3597W Introduction to African American Literature and Culture I

4 credit(s); Credit will not be granted if credit has been received for: AFRO 3591W; Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;

Instructor: Wright, John Samuel

Description: Student may contact the instructor or department for information.

ENGL 3601 Analysis of the English Language

4 credit(s); prereq credit will not be granted if credit already received for: ENGL 3601W;

Instructor: Elfenbein, Andrew

Description: A 4-part introduction to the analysis of the English language: (1) basics (phonetics, morphology, syntax, semantics); (2) sociolinguistic and psycholinguistic approaches to English; (3) overview of the history of English; (4) literary stylistics.

Style: 60% Lecture, 10% Discussion, 10% Small Group Activities, 20% Demonstration.

Grading: 15% mid exam, 20% final exam, 25% quizzes, 30% written homework, 5% attendance, 5% class participation.

ENGL 3711 Literary Magazine Production Lab I

A-F only, 4 credit(s);

Instructor: STAFF

Description: In the first of two sequential courses (ENGL 3712 registration required), students produce the undergraduate art and literary magazine Ivory Tower. Students decide upon the desired identity, tone, and direction of the issue. They explore and take on magazine staff responsibilities. They call for submissions, make selections, investigate the edit and design processes, set a budget and begin fund-raising.

ENGL 3741 Literacy and American Cultural Diversity

4 credit(s); prereq credit will not be granted if credit already received for: ENGL 3606; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Cultural Diversity Theme;

Instructor: DeLong, Renee

Description: Student may contact the instructor or department

for information.

ENGL 3741 Literacy and American Cultural Diversity

4 credit(s); prereq credit will not be granted if credit already received for: EngL 3606; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Cultural Diversity Theme; Instructor: Daigre, Eric Stephen

Description: Students will serve as literacy workers for 2 hours a week outside of class at participating organizations in the nonprofit and educational sectors. This class combines academic study with experiential learning in order to collectively build a more engaged, complex understanding of the functions of literature, literacy, educational institutions, counter-institutional literacy programs, and the different cultures and communities in Minnesota and the Americas in general. We'll explore questions of "praxis," considering and applying our readings to the concrete circumstances of our community work, at all points trying to "make the connection" between our classroom and community work. In asking what literacy really means and what it means to be "democratic educators" in both spheres, we will challenge the distinction between classroom and community as an artifact of the modern research university. Reading: literary texts, sociological and educational theory, literacy studies. 2 papers, 2 presentations.

ENGL 3883V Honors Thesis

A-F only, 1-4 credit(s), max credits 4, 4 completions allowed; prereq Honors candidacy in English, consent of English honors advisor credit will not be granted if credit already received for: EngL 3883; Meets CLE req of Writing Intensive; Instructor: Atkinson, Beverly M

Description: This individually contracted course is required of English summa cum laude degree candidates. The resulting thesis (about 40 pages) may be analytical, theoretical, or creative. For complete information, students will read the relevant pages on <http://english.cla.umn.edu/ugrad/degree.html#honors> Using a contract form available at the URL or in the English Undergraduate Studies Office, 227 Lind, students make arrangements with a professor no later than the term preceding their last two terms. (It is strongly recommended that they do so by midterm.) They can expect to spend two semesters to research, collect, discuss, create, write, revise and revise, and then to seek approval from the supervising professor and two additional readers. Students work somewhat independently, meet periodically with the professor, and attend the English honors thesis writers' workshop as noted in the Class Schedule. It is recommended that they attend a thesis preparation and writing workshop offered by the University Honors Program (UHP) advisers, consult with the English Honors adviser, and work closely with the professor. Students find it helpful to have a peer English honors student (in the workshop) serve as a discussant and reader during the process of developing ideas and writing. Class time: average 50 minutes every other week in workshop.

Style: discussion, Individual research, reading, writing., One-to-one discussions with faculty advisor in addition to the workshop

Grading: 100% reports/papers. Grade is based on the completed thesis, the process leading to the final paper and the discussions with the faculty advisor.

ENGL 3960W Senior Seminar: Criticism of the Novel

A-F only, 4 credit(s); prereq English major, [jr or sr], major adviser approval, dept consent credit will not be granted if credit already received for: EngL 3960; Meets CLE req of Writing Intensive;

Instructor: Weinsheimer, Joel Clyde

Description: Student may contact the instructor or department for information.

ENGL 3960W Senior Seminar: Apocalypse Now

A-F only, 4 credit(s); prereq English major, [jr or sr], major adviser approval, dept consent credit will not be granted if credit already received for: EngL 3960; Meets CLE req of Writing Intensive;

Instructor: Watkins, John

Description: Student may contact the instructor or department for information.

ENGL 3960W Senior Seminar: Girls on the Run or The Female Picaresque

A-F only, 4 credit(s); prereq English major, [jr or sr], major adviser approval, dept consent credit will not be granted if credit already received for: EngL 3960; Meets CLE req of Writing Intensive;

Instructor: Cucullu, Lois B

Description: While the figure of the picaresque has been celebrated for its long and distinguished masculine lineage (Quixote, Tom Jones, Huck Finn, Holden Caulfield), no less rich are female representations of the picaresque. This seminar considers the figure of the female picaresque across several genres and media: from its novelistic roots in Moll Flanders to its cinematic guise in Thelma and Louise; from such liberation narratives as Harriet Jacobs? Incidents in the Life of a Slave Girl to Nella Larsen?s experimental novella Passing. Over the course of the term, we will consider how those traits often deemed emancipatory for the male picaro?such as corporeality, promiscuity, roguishness, independence?are treated when the subject is female.

ENGL 3993 Directed Study

A-F only, 1-4 credit(s), max credits 8; prereq One 3xxx, [English major or minor or [BIS or IDIM or ICP] with English concentration], [jr or sr], instr consent, dept consent, college consent ; Instructor: STAFF

Description: Guided individual study. Open to qualified students for one or more semesters. Before receiving permission to register, students submit to the English Undergraduate Studies office a signed contract using the CLA "Student/Faculty Learning Contract" available in all CLA offices.

ENGL 4152 Nineteenth Century British Novel

A-F only, 3 credit(s);

Instructor: Luke, David B

Description: The course will study the cultural developments of the 19th-C English Novel from Mary Shelley's "Frankenstein" (1818) through Bronte, Dickens, Eliot and Hardy, to Joseph Conrad's "Heart of Darkness" (1898) in terms of aesthetic, psychological, philosophical, and social issues.

Style: 75% Lecture, 25% Discussion.

Grading: 20% mid exam, 30% final exam, 30% reports/papers, 10% class participation, 10% other evaluation. attendance

Exam Format: short answers and/or short essays

ENGL 4311 Asian American Literature and Drama

A-F only, 3 credit(s);

Instructor: Lee, Josephine D

Description: This course focuses on the literary and theatrical contributions of American artists of Asian descent. Through these novels, memoirs, poetry, stories, and plays, we can understand the particular connections between literary form, expression, and production and the social formations of race, ethnicity, nationalism, class, gender, and sexuality. Asian Americans come from a diverse range of national and cultural backgrounds; likewise their literature and drama presents many different perspectives and experiences. This course will not attempt a survey of these works; rather our readings and discussions will reflect particular preoccupations that regularly surface in these works. These include migration (and its accompanying states of disorientation and acts of reinvention), racism and stereotypes, the road trip, and redefining home. We will pay special attention to Asian American experiences in Minnesota and other parts of the Midwest. This course satisfies the core requirement for the Asian American Studies minor as well as elective requirements for the English major and minor.

ENGL 4593 The African-American Novel

3 credit(s); Credit will not be granted if credit has been received for: AFRO 4593;

Instructor: Wright, John Samuel

Description: Student may contact the instructor or department for information.

of the major novels, but we'll also consider juvenilia, biography, contemporary responses, and current critical perspectives.

ENGL 4612 Old English I

3 credit(s); prereq credit will not be granted if credit already received for: ENGL 3612; Credit will not be granted if credit has been received for: ENGL 5612;

Instructor: Scheil, Andrew

Description: 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.

Style: 50% Lecture, 50% Discussion.

Grading: 20% mid exam, 35% final exam, 15% reports/papers, 15% quizzes, 15% class participation.

ENGL 5001 Introduction to Methods in Literary Studies

3 credit(s);

Instructor: Brown, Tony C.

Description: Student may contact the instructor or department for information.

ENGL 5040 Theories of Film: Fascism & Film

3 credit(s), max credits 9, 3 completions allowed; prereq Grad student or instr consent ;

Instructor: Craig, Siobhan S

Description: Student may contact the instructor or department for information.

ENGL 5090 Readings in Special Subjects

3-4 credit(s), max credits 9, 3 completions allowed; prereq grad student or instr consent ; Credit will not be granted if credit has been received for: ENGL 5100;

Instructor: STAFF

Description: Student may contact the instructor or department for information.

ENGL 5110 Readings in Middle English Literature and Culture:

Chaucer

3 credit(s), max credits 9, 3 completions allowed; prereq Grad student or instr consent credit will not be granted if credit received for: 5210; Credit will not be granted if credit has been received for: ENGL 3110;

Instructor: Farber, Lianna

Description: Student may contact the instructor or department for information.

ENGL 5150 Readings in 19th-Century Literature and Culture:

The Brontes

3 credit(s), max credits 9, 3 completions allowed; prereq Grad student or instr consent credit will not be granted if credit received for: ENGL 5250;

Instructor: Goldberg, Brian B

Description: ENGL 5150: The Brontes This course will undertake a semester-long study of the writing of Charlotte, Emily, and Anne Bronte. The core of the course will be a reading of (some)

ENGL 5711 Introduction to Editing

4 credit(s); prereq credit will not be granted if credit received for: 5401;

Instructor: STAFF

Description: If the media doomsayers are right, editing is a dying craft. Right now, polytechnic institutes are training the next generation of copyeditors in Bangalore. Newspapers are shedding weight like dueling celebs in an US photospread. Bloggers are proving that no one need come between a rant and a reader. (Granted, they're doing it one typo at a time.) But someone, somewhere, has to generate that alumni magazine, the St. Paul Saints season guide, and the co-op newsletter. In other words, a demand persists in the American marketplace for someone who knows how to turn slop into steak. 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. (Fall '08 guests included the editor in chief of the Minnesota Historical Society Press, the art director of City Pages, the media analyst at MinnPost, and an executive employment lawyer at U.S. Bancorp.) 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.

ENGL 5800 Practicum in the Teaching of English

1-2 credit(s), max credits 2, 1 completion allowed; prereq Grad student or instr consent ;

Instructor: Daigre, Eric Stephen

Description: This course is an introduction to the theory and practice of teaching literature and creative writing at the college level. We will reflect on our teaching in light of our experiences, our readings, and our class discussions. We will model, practice, and report back on various teaching methods and activities, both in our discussions and interactive learning activities, and--beginning at mid-semester--through more structured "teaching dialogues." We will apply the very skills we aim to impart to our undergraduate students--critical reading, writing, and thinking--to ourselves as we analyze our teaching through regular journal writings and final projects. This course is required for (and limited to) new graduate students in the English MA, MFA, and PhD programs.

ENGL 5992 Directed Readings, Study, or Research

1-3 credit(s), max credits 45, 15 completions allowed; prereq Grad student or instr consent ;

Instructor: Clayton, Tom

Description: Student may contact the instructor or department for information.

ENGL 5992 Directed Readings, Study, or Research

1-3 credit(s), max credits 45, 15 completions allowed; prereq Grad student or instr consent ;

Instructor: Wright, John Samuel

Description: Student may contact the instructor or department for information.

ENGL 5992 Directed Readings, Study, or Research

1-3 credit(s), max credits 45, 15 completions allowed; prereq Grad student or instr consent ;

Instructor: Baxter, Charles Roger

Description: Student may contact the instructor or department for information.

ENGL 5992 Directed Readings, Study, or Research

1-3 credit(s), max credits 45, 15 completions allowed; prereq Grad student or instr consent ;

Instructor: Sirc, Geoffrey Michael

Description: Student may contact the instructor or department for information.

ENGL 5992 Directed Readings, Study, or Research

- 1-3 credit(s), max credits 45, 15 completions allowed; prereq Grad student or instr consent ;**
Instructor: Treuer,David Robert
Description: Student may contact the instructor or department for information.
- ENGL 5992 Directed Readings, Study, or Research**
1-3 credit(s), max credits 45, 15 completions allowed; prereq Grad student or instr consent ;
Instructor: Damon,Maria
Description: Student may contact the instructor or department for information.
- ENGL 5992 Directed Readings, Study, or Research**
1-3 credit(s), max credits 45, 15 completions allowed; prereq Grad student or instr consent ;
Instructor: 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; prereq Grad student or instr consent ;
Instructor: Hirsch,Gordon D
Description: Student may contact the instructor or department for information.
- ENGL 5992 Directed Readings, Study, or Research**
1-3 credit(s), max credits 45, 15 completions allowed; prereq Grad student or instr consent ;
Instructor: Sugnet,Charles J
Description: Student may contact the instructor or department for information.
- ENGL 5992 Directed Readings, Study, or Research**
1-3 credit(s), max credits 45, 15 completions allowed; prereq Grad student or instr consent ;
Instructor: Weinsheimer,Joel Clyde
Description: Student may contact the instructor or department for information.
- ENGL 5992 Directed Readings, Study, or Research**
1-3 credit(s), max credits 45, 15 completions allowed; prereq Grad student or instr consent ;
Instructor: Hancher,Michael
Description: Student may contact the instructor or department for information.
- ENGL 5992 Directed Readings, Study, or Research**
1-3 credit(s), max credits 45, 15 completions allowed; prereq Grad student or instr consent ;
Instructor: Lee,Josephine D
Description: Student may contact the instructor or department for information.
- ENGL 5992 Directed Readings, Study, or Research**
1-3 credit(s), max credits 45, 15 completions allowed; prereq Grad student or instr consent ;
Instructor: Elfenbein,Andrew
Description: Student may contact the instructor or department for information.
- ENGL 5992 Directed Readings, Study, or Research**
1-3 credit(s), max credits 45, 15 completions allowed; prereq Grad student or instr consent ;
Instructor: Schumacher,Julie
Description: Student may contact the instructor or department for information.
- ENGL 5992 Directed Readings, Study, or Research**
1-3 credit(s), max credits 45, 15 completions allowed; prereq Grad student or instr consent ;
Instructor: Escure,Genevieve J
Description: Student may contact the instructor or department for information.
- ENGL 5992 Directed Readings, Study, or Research**
1-3 credit(s), max credits 45, 15 completions allowed; prereq Grad student or instr consent ;
Instructor: Mowitt,John W
Description: Student may contact the instructor or department for information.
- ENGL 5992 Directed Readings, Study, or Research**
1-3 credit(s), max credits 45, 15 completions allowed; prereq Grad student or instr consent ;
Instructor: Luke,David B
Description: Student may contact the instructor or department for information.
- ENGL 5992 Directed Readings, Study, or Research**
1-3 credit(s), max credits 45, 15 completions allowed; prereq Grad student or instr consent ;
Instructor: 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; prereq Grad student or instr consent ;
Instructor: Watkins,John
Description: Student may contact the instructor or department for information.
- ENGL 5992 Directed Readings, Study, or Research**
1-3 credit(s), max credits 45, 15 completions allowed; prereq Grad student or instr consent ;
Instructor: Garner,Shirley Nelson
Description: Student may contact the instructor or department for information.
- ENGL 5992 Directed Readings, Study, or Research**
1-3 credit(s), max credits 45, 15 completions allowed; prereq Grad student or instr consent ;
Instructor: Fitzgerald,M. J
Description: Student may contact the instructor or department for information.
- ENGL 5992 Directed Readings, Study, or Research**
1-3 credit(s), max credits 45, 15 completions allowed; prereq Grad student or instr consent ;
Instructor: 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; prereq Grad student or instr consent ;
Instructor: Browne,M D
Description: Student may contact the instructor or department for information.
- ENGL 5992 Directed Readings, Study, or Research**
1-3 credit(s), max credits 45, 15 completions allowed; prereq Grad student or instr consent ;
Instructor: 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; prereq Grad student or instr consent ;
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; prereq Grad student or instr consent ;
Instructor: Griffin PhD,Edward 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; prereq
Grad student or instr consent ;
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; prereq
Grad student or instr consent ;
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; prereq
Grad student or instr consent ;
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; prereq
Grad student or instr consent ;
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; prereq
Grad student or instr consent ;
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; prereq
Grad student or instr consent ;
Instructor: Cucullu,Lois B
Description: Student may contact the instructor or department
for information.

ENGL 5992 Directed Readings, Study, or Research

1-3 credit(s), max credits 45, 15 completions allowed; prereq
Grad student or instr consent ;
Instructor: 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; prereq
Grad student or instr consent ;
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; prereq
Grad student or instr consent ;
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; prereq
Grad student or instr consent ;
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; prereq
Grad student or instr consent ;

Instructor: Tinsley,Omise'eke Natasha

Description: Student may contact the instructor or department
for information.

ENGL 5992 Directed Readings, Study, or Research

1-3 credit(s), max credits 45, 15 completions allowed; prereq
Grad student or instr consent ;
Instructor: 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; prereq
Grad student or instr consent ;
Instructor: Ch'ien,Evelyn Nien-Ming
Description: Student may contact the instructor or department
for information.

ENGL 5992 Directed Readings, Study, or Research

1-3 credit(s), max credits 45, 15 completions allowed; prereq
Grad student or instr consent ;
Instructor: 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; prereq
Grad student or instr consent ;
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; prereq
Grad student or instr consent ;
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; prereq
Grad student or instr consent ;
Instructor: Mrozowski PhD,Daniel Justin
Description: Student may contact the instructor or department
for information.

ENGL 8090 Seminar in Special Subjects: Grad School Seminar

3 credit(s), max credits 12, 4 completions allowed;
Instructor: Philippon,Daniel J
Description: This interdisciplinary dissertation writing seminar
will examine three aspects of advanced study of the environment
in the humanities: (1) how three humanistic disciplines--literary
and rhetorical studies, history, and philosophy--each address
"the environment" in different ways, (2) how an emerging body of
interdisciplinary work breaks these disciplinary boundaries in
innovative ways, and (3) how students in the natural and social
sciences can benefit from engaging humanistic approaches in
their own dissertation work. The title of the course--"Whose
Nature?"--is meant to summarize the overarching question that
drives much of the work in the environmental humanities, which
seeks to link understandings of the physical environment
common to the natural sciences with questions of human identity
and purpose that characterize the humanities. Readings will
include two or three recent books that began as dissertations (to
serve as models for student work), as well as articles that
represent the different disciplinary perspectives in the humanities
and their application to the natural and social sciences.
Additional readings will come from students' own dissertation
work, which seminar participants will be asked to workshop,
much as a writing support group might do. Depending on student
interest, the course may also involve visits from faculty members
in related areas, a field session, and a variety of cooperative
learning activities.

**ENGL 8090 Seminar in Special Subjects: Prelude to Empire:
from Hakluyt to Defoe**

3 credit(s), max credits 12, 4 completions allowed;

Instructor: Matar,Nabil I

Description: When and how did the British Empire begin? This course examines writings from early modern England that articulate the idea of empire and its subsequent implementation. From the Elizabethan period on, English (and Scottish and Cornish and Welsh) ships sailed in various directions seeking trade, settlement, and natural resources. But the first imperial project was in Ireland, followed by North America, and in the second half of the seventeenth century, North Africa (Tangier) and India. By the early eighteenth century, Britain ruled the waves and was able to begin its world-wide imperial project in earnest. The readings in this course vary in their genres. We shall start with Hakluyt, the father of the idea of empire, and look at Spenser's account about Ireland, the first imperial venture under Elizabeth I. We will examine the charters of various trading companies ? from Barbary to Virginia ? and sermons about the divine calling to America. Britain's occupation of Tangier has often been ignored, although the colony was viewed as the spearhead into the Islamic world. We will look at various commercial and peace treaties between Britain and other countries, study the development and advancement of the navy ? the engine of empire - and then look at the decisive wars with France (the Nine Years War and the War of the Spanish Succession). We will end with Daniel Defoe for whom Britain's imperial expansion was a reflection of Protestant industry, piety, and superiority.

ENGL 8110 Seminar: Medieval Literature and Culture: Medieval Saints' Lives

3 credit(s), max credits 12, 4 completions allowed;

Instructor: Scheil,Andrew

Description: This research seminar is an advanced exploration of medieval hagiography in the British Isles from ca. 650-1500. Saints' lives constitute an important conduit for narrative desire in an era before the novel; like any widespread narrative form, hagiography displays the ideological fault-lines of its culture, those fascinating moments when medieval culture bodies forth its sublimated hopes and fears. Touched by the divine in their earthly lives, saints bridge the gap between humanity and the ineffable; the imperatives of literature, history, theology, and popular religiosity all meet in the composition of a saint's earthly story. Our readings will be chiefly in Latin, Old English and Middle English; translations will be provided for the entire class, with weekly additional translation exercises for those with skills in the appropriate languages. The course will be of interest to graduate students in English, Classical and Near Eastern Studies, History, Germanic Philology, Religious Studies and so forth. Further details available upon request; interested students should contact the instructor as soon as possible so the readings can be tailored to your interests and abilities.

ENGL 8400 Seminar in Post-Colonial Literature, Culture, and Theory: Recharging Postcoloniality

3 credit(s), max credits 12, 4 completions allowed;

Instructor: Ismail,Qadri M

Description: Student may contact the instructor or department for information.

ENGL 8510 Studies in Criticism and Theory: Marxist Literary Theory & the Postcolonial Questio

3 credit(s), max credits 12, 4 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; prereq

instr consent, dept consent;

Instructor: Clayton,Tom

Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing

1-9 credit(s), max credits 15, 15 completions allowed; prereq

instr consent, dept consent;

Instructor: Wright,John Samuel

Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing

1-9 credit(s), max credits 15, 15 completions allowed; prereq

instr consent, dept consent;

Instructor: Baxter,Charles Roger

Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing

1-9 credit(s), max credits 15, 15 completions allowed; prereq

instr consent, dept consent;

Instructor: Sirc,Geoffrey Michael

Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing

1-9 credit(s), max credits 15, 15 completions allowed; prereq

instr consent, dept consent;

Instructor: Treuer,David Robert

Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing

1-9 credit(s), max credits 15, 15 completions allowed; prereq

instr consent, dept consent;

Instructor: Damon,Maria

Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing

1-9 credit(s), max credits 15, 15 completions allowed; prereq

instr consent, dept consent;

Instructor: Ismail,Qadri M

Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing

1-9 credit(s), max credits 15, 15 completions allowed; prereq

instr consent, dept consent;

Instructor: Hirsch,Gordon D

Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing

1-9 credit(s), max credits 15, 15 completions allowed; prereq

instr consent, dept consent;

Instructor: Sugnet,Charles J

Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing

1-9 credit(s), max credits 15, 15 completions allowed; prereq

instr consent, dept consent;

Instructor: Weinsheimer,Joel Clyde

Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing

1-9 credit(s), max credits 15, 15 completions allowed; prereq

instr consent, dept consent;

Instructor: Hancher,Michael

- Description:** Student may contact the instructor or department for information.
- ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing**
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;
Instructor: Lee, Josephine D
Description: Student may contact the instructor or department for information.
- ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing**
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;
Instructor: 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; prereq instr consent, dept consent;
Instructor: Schumacher, Julie
Description: Student may contact the instructor or department for information.
- ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing**
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;
Instructor: 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; prereq instr consent, dept consent;
Instructor: Mowitt, John W
Description: Student may contact the instructor or department for information.
- ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing**
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;
Instructor: Luke, David B
Description: Student may contact the instructor or department for information.
- ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing**
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;
Instructor: Messer-Davidow, Ellen
Description: Student may contact the instructor or department for information.
- ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing**
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;
Instructor: Watkins, John
Description: Student may contact the instructor or department for information.
- ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing**
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;
Instructor: Garner, Shirley Nelson
Description: Student may contact the instructor or department for information.
- ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing**
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;
Instructor: Fitzgerald, M. J
Description: Student may contact the instructor or department for information.
- ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing**
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;
Instructor: 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; prereq instr consent, dept consent;
Instructor: Browne, M D
Description: Student may contact the instructor or department for information.
- ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing**
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;
Instructor: Sprengnether, Madelon M
Description: Student may contact the instructor or department for information.
- ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing**
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;
Instructor: Rabinowitz, Paula
Description: Student may contact the instructor or department for information.
- ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing**
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;
Instructor: Griffin PhD, Edward M
Description: Student may contact the instructor or department for information.
- ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing**
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;
Instructor: 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; prereq instr consent, dept consent;
Instructor: Ross Jr, Donald
Description: Student may contact the instructor or department for information.
- ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing**
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;
Instructor: 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; prereq

instr consent, dept consent;

Instructor: Scandura, Jani

Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing

1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;

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; prereq instr consent, dept consent;

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; prereq instr consent, dept consent;

Instructor: Craig, Siobhan S

Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing

1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;

Instructor: Krug, Rebecca L

Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing

1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;

Instructor: Goldberg, Brian B

Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing

1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;

Instructor: Farber, Lianna

Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing

1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;

Instructor: Tinsley, Omise'eke Natasha

Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing

1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;

Instructor: 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; prereq instr consent, dept consent;

Instructor: Ch'ien, Evelyn Nien-Ming

Description: Student may contact the instructor or department

for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing

1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;

Instructor: Scheil, Andrew

Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing

1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;

Instructor: 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; prereq instr consent, dept consent;

Instructor: Matar, Nabil I

Description: Student may contact the instructor or department for information.

English: Creative Writing

222 Lind Hall

ENGW 1102 Introduction to Fiction Writing

3 credit(s);

Instructor: STAFF

Description: Introductory course in the art and craft of reading and writing fiction. Students will read a variety of classic and contemporary fiction. Students will be responsible for composing original stories; writing comments on student work; workshop participation; attendance at a literary reading; and a final portfolio of fiction.

Style: 25% Lecture, 50% Discussion.

Exam Format: Revised stories/Final Portfolio

ENGW 1103 Introduction to Poetry Writing

3 credit(s);

Instructor: STAFF

Description: Introductory course in the art and craft of reading and writing poetry. Students will read and analyze contemporary and classic works of poetry while also constructing and revising their own poetry. Students will be responsible for crafting original poetry; commenting on student work; workshop participation; attendance at a literary reading; short presentations and/or papers; a final portfolio of poetry.

Style: 25% Lecture, 50% Discussion. workshop

Exam Format: Revised poems/final portfolio

ENGW 1104 Introduction to Literary Nonfiction Writing

3 credit(s);

Instructor: STAFF

Description: Introductory course in the art and craft of reading and writing literary nonfiction. Students will read and analyze contemporary and classic nonfiction literary works (essays, memoir, biography, autobiography, short-shorts) and also construct and revise their own nonfiction pieces. Students will be responsible for crafting original works of nonfiction; commenting on student work; workshop participation; attendance at a literary reading; short papers and/or presentations; a final portfolio of nonfiction.

Style: 25% Lecture, 50% Discussion. workshop

Exam Format: Revised nonfiction/final portfolio of nonfiction

ENGW 3102 Intermediate Fiction Writing

3 credit(s); prereq 1101 or 1102 or dept consent ;

Instructor: STAFF

Description: Intermediate course in the art and craft of

reading/writing fiction for students with previous experience in fiction writing. Students will read and analyze contemporary and classic short fiction and also construct their own stories.

Students will be responsible for written comments on student work; workshop participation; attendance at a literary reading; some short papers and presentations; and a final portfolio of short fiction.

Style: 25% Lecture, 50% Discussion. workshop

Grading: Revised fiction/final portfolio of fiction

ENGW 3104 Intermediate Poetry Writing

3 credit(s); prereq 1101 or 1103 or dept consent ;

Instructor: STAFF

Description: This intermediate level course is for writers who have some previous experience in writing poetry. The course will focus on craft and stylistic techniques using writing exercises and readings from a range of poets writing in different forms. The workshop portion of the class will be devoted to developing individual student work; student critiques; some short papers and presentations; attendance at one literary reading; final portfolio of poetry.

Style: 25% Lecture, 50% Discussion. workshop

Exam Format: Final portfolio of poems

ENGW 3106 Intermediate Literary Nonfiction Writing

3 credit(s); prereq 1101 or 1104 or dept consent ;

Instructor: STAFF

Description: This intermediate level course is for 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

3 credit(s), max credits 9, 3 completions allowed; prereq 1101 or 1102 or 1103 or 1104 or dept consent ;

Instructor: Daniel, Judith A

Description: Student may contact the instructor or department for information.

ENGW 3110 Topics in Creative Writing: Journaling into Fiction

3 credit(s), max credits 9, 3 completions allowed; prereq 1101 or 1102 or 1103 or 1104 or dept consent ;

Instructor: Daniel, Judith A

Description: Student may contact the instructor or department for information.

ENGW 3110 Topics in Creative Writing: Journaling into Fiction

3 credit(s), max credits 9, 3 completions allowed; prereq 1101 or 1102 or 1103 or 1104 or dept consent ;

Instructor: Daniel, Judith A

Description: Student may contact the instructor or department for information.

ENGW 3110 Topics in Creative Writing: Discovery of Poetry

3 credit(s), max credits 9, 3 completions allowed; prereq 1101 or 1102 or 1103 or 1104 or dept consent ;

Instructor: Browne, M D

Description: In this course, we'll be exploring some of the many possibilities of poetry, of poetries. The overall aim is to develop an intimacy with poetry, in all its playfulness and seriousness, so that you will have a better feeling and understanding of how poems are put together, how they are made. There will be frequent short reports, small group discussions, open readings, by heart recitations, frequent writing exercises, some videos, a visitor or two, and at least one field trip. There will be a final project (10-15 pp.) which we can talk about any time as the semester progresses. This is primarily a discussion class, so be prepared to be active, committed to the experience.

ENGW 5102 Advanced Fiction Writing

4 credit(s), max credits 8; prereq dept consent;

Instructor: STAFF

Description: We will be reading and critiquing student fiction, including short stories and chapters from novels. I will be handing out guidelines for doing so at the first meeting. Members of the workshop should expect to have two, possibly three, manuscripts critiqued, each one approximately 15 to 20 pages in length, and we will also be reading and discussing short stories from an anthology, considering their formal properties. I will expect active participation from everyone, including written comments to be turned in to the week's contributors and to me.

ENGW 5104 Advanced Poetry Writing

4 credit(s), max credits 8; prereq dept consent;

Instructor: STAFF

Description: Students will write and workshop original poetry. Readings from classic and contemporary poetry collections and anthologies. Students will be expected to write short critiques; short analytical reports on reading assignments; final portfolio of revised poetry.

ENGW 5106 Advanced Literary Nonfiction Writing

4 credit(s), max credits 8; prereq dept consent;

Instructor: STAFF

Description: Students will write and critique original works of creative nonfiction. Students will be expected to write short critiques; short reports on assigned reading material; final portfolio to revise creative nonfiction.

ENGW 5202 Journal and Memoir Writing

3 credit(s);

Instructor: Galt, Margot Kriel

Description: Student may contact the instructor or department for information.

ENGW 5205 Screenwriting

4 credit(s); prereq [Jr or sr], one EngW 3xxx course, dept consent [permission number available in creative writing office];

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 5310 Reading as Writers: The Memoir

4 credit(s), max credits 8; prereq grad student, dept consent ;

Instructor: Hampl, Patricia

Description: Student may contact the instructor or department for information.

ENGW 5993 Directed Study in Writing

1-4 credit(s), max credits 18, 18 completions allowed; prereq instr consent, dept consent, college consent;

Instructor: STAFF

Description: By arrangement with individual faculty. For more information, contact the Creative Writing Program at (612) 625-6366.

ENGW 8101 Reading Across Genres

S-N only, 4 credit(s); prereq Creative writing MFA student, dept consent;

Instructor: Hampl, Patricia

Description: Student may contact the instructor or department for information.

ENGW 8140 Thesis Seminar: Poetry

4 credit(s), max credits 8; prereq Creative writing MFA student, instr consent ;

Instructor: Gonzalez,Ramon

Description: This course is for second and third year poetry students preparing their thesis manuscripts. Second year students, who are at an earlier stage of writing and gathering sequences of poems, will be required to submit fewer pages than third year students, but will be expected to generate and workshop poems that will serve as the foundation for their projects. As we workshop these poems, we will discuss and debate how individual pieces create sequences and signal what kind of manuscript is being written, even if it is at an early stage. Third years students will submit more pages and we will look at large portions of their manuscripts which, at this point in the third year, should be well on their way toward the final stages that make up a first book. Third year students are expected to have larger, working manuscripts that should already resemble a final thesis. We will also read and discuss five or six published books of contemporary poetry to study how poets group sections of poems, create movements within sequences, and how they begin and end their manuscripts. By the end of the course, second year students should have a good foundation of poems as they prepare for their final year and third year students will have manuscripts that point to final revisions and ordering as they go into their last spring semester.

ENGW 8150 Thesis Seminar: Fiction

4 credit(s), max credits 8; prereq Creative writing MFA student, instr consent ;

Instructor: Treuer,David Robert

Description: Student may contact the instructor or department for information.

ENGW 8160 Thesis Seminar: Nonfiction

4 credit(s), max credits 8; prereq Creative writing MFA student, instr consent ;

Instructor: Sprengnether,Madelon M

Description: Student may contact the instructor or department for information.

ENGW 8170 MFA Practicum: EngW 1101W

S-N only, 3 credit(s); prereq Creative writing MFA student, instr consent ;

Instructor: Schumacher,Julie

Description: Student may contact the instructor or department for information.

Entomology

219 Hodson Hall

ENT 3005 Insect Biology

3 credit(s); Meets CLE req of Biological Sciences/Lab Core;

Instructor: Fallon,Ann M

Description: Student may contact the instructor or department for information.

ENT 3281 Veterinary Entomology

A-F only, 3 credit(s);

Instructor: Moon,Roger Dean

Description: Student may contact the instructor or department for information.

ENT 3925 Insects, Aquatic Habitats, and Pollution

A-F only, 3 credit(s); prereq [[3005 or Biol 3407 or FW 2001], [jr or sr]] or instr consent ;

Instructor: Ferrington Jr,Leonard Charles

Description: This course will focus on the effects differing classes of pollutants have on the biology, ecology and community structure of insects that are aquatic. It is intended for (1)upper level undergraduates with interests in ecology, limnology, natural resources management or conservation, and (2)first-year graduate students involved in research projects in

Entomology, Water Resources, Fisheries and Wildlife, Conservation and/or Ecology and Evolutionary Biology. Topics to be covered will begin with a basic introduction to groups of insects that are aquatic and concepts related to their life-cycle dynamics,trophic guilds and community structure. Coverage will be given to hypotheses that attempt to explain community structure in both lotic(streams, rivers) and lentic (ponds, lake, reservoirs) settings. These lectures will be followed by lectures on organic pollution/eutrophication,heavy metal pollution, runoff and siltation, acidification, and thermal pollution. Changes in aquatic insect community structure will be discussed after reading an original literature source for each class of pollutant. Concluding lectures will deal with designing and maintaining biological monitoring networks to aid in decisions for water quality management. Copies of original data will be provided and hands-on, computer-based analyses of the data will give students experience in manipulating data and interpreting results. Weekly assignments will be based on data provided. The course will be web enhanced.

Style: 75% Lecture, 25% Discussion.

Grading: 20% mid exam, 30% final exam, 10% laboratory evaluation, 20% problem solving, 20% other evaluation. Completed design for a field reseach project

Exam Format: Combination of multiple choice and essay

ENT 4021 Honey Bees and Insect Societies

3 credit(s); prereq Biol 1009 or instr consent;

Instructor: Spivak,Marla

Description: The course is designed to study the fascinating natural histories and behaviors of honey bees and other social insects (native social bees, some wasps, ants, and termites). These insect societies demonstrate cooperative behavior and collective decision-making with no central authority. Lectue topics include the evolution of social behavior, pheromones and communication, current theories on the division of labor and self-organization, the "superorganism" concept, and social parasitism. This course will appeal to students from a diversity of backgrounds: biology (ecology, zoology, botany/horticulture, agronomy and sustainable agriculture), psychology and political science, and is open to both undergraduates and graduate students. The objectives of the course are: 1) to apply the general principles of biology, entomology and behavior to the study honey bees and other social insects; 2) to stimulate students to think analytically about selected research topics (e.g., whether honey bees use the information encoded in the dance "language"); 3) obtain hands-on experience with management of honey bees and native bee pollinators; and 4) encourage students to actively participate in their education. For students with continuing interest in honey bee management and research, a 3-week field course is offered during the Intersession (May/June).

Style: 50% Lecture, 25% Discussion, 25% Laboratory.

Grading: 30% mid exam, 30% final exam, 30% problem solving.

Exam Format: Essay

ENT 4096 Professional Experience Program: Internship

S-N only, 1-3 credit(s), max credits 3, 1 completion allowed; prereq COAFES jr or sr, complete internship contract available in COAFES Career Services before enrolling, UC only, instr consent;

Instructor: STAFF

Description: Professional experience in entomology firms or government agencies through supervised practical experience; evaluative reports and consultations with faculty advisors and employers.

ENT 4251 Forest and Shade Tree Entomology

3 credit(s);

Instructor: Rush,Peter A.

Description: Student may contact the instructor or department for information.

ENT 5011 Insect Structure and Function

A-F only, 4 credit(s); prereq 3005 or instr consent;

Instructor: Kurtti,Timothy J

Description: Student may contact the instructor or department

for information.

ENT 5045 Insect Population Dynamics

A-F only, 3 credit(s); prereq 3005 or instr consent;

Instructor: Andow,David

Description: Student may contact the instructor or department for information.

ENT 5081 Insects, Aquatic Habitats, and Pollution

A-F only, 3 credit(s); prereq [3005, Biol 3407, FW 2001, EEB 4601] or instr consent ;

Instructor: Ferrington Jr,Leonard Charles

Description: This course will focus on the effects differing classes of pollutants have on the biology, ecology and community structure of insects that are aquatic. It is intended for (1) upper level undergraduates with interests in ecology, limnology, natural resources management or conservation, and (2) first-year graduate students involved in research projects in Entomology, Water Resources, Fisheries and Wildlife, Conservation and/or Ecology and Evolutionary Biology. Topics to be covered will begin with a basic introduction to groups of insects that are aquatic and concepts related to their life-cycle dynamics, trophic guilds and community structure. Coverage will be given to hypotheses that attempt to explain community structure in both lotic (streams, rivers) and lentic (ponds, lake, reservoirs) settings. These lectures will be followed by lectures on organic pollution/eutrophication, heavy metal pollution, runoff and siltation, acidification, and thermal pollution. Changes in aquatic insect community structure will be discussed after reading an original literature source for each class of pollutant. Concluding lectures will deal with designing and maintaining biological monitoring networks to aid in decisions for water quality management. Copies of original data will be provided and hands-on, computer-based analyses of the data will give students experience in manipulating data and interpreting results. Weekly assignments will be based on data provided.

Style: 75% Lecture, 25% Discussion.

Grading: 25% mid exam, 25% final exam, 25% reports/papers, 25% class participation.

Exam Format: Combination of multiple choice and essay

ENT 5241 Ecological Risk Assessment

3 credit(s); prereq instr consent;

Instructor: Andow,David

Description: Student may contact the instructor or department for information.

ENT 5900 Basic Entomology

1-6 credit(s), max credits 12; prereq instr consent ;

Instructor: STAFF

Description: Opportunity to make up certain deficiencies in biological background.

ENT 5910 Special Problems in Entomology

1-6 credit(s), max credits 10, 10 completions allowed; prereq instr consent;

Instructor: STAFF

Description: Individual field, lab, or library studies in various aspects of entomology.

ENT 8061 Scientific Communication and Ethics

S-N only, 1 credit(s);

Instructor: Fallon,Ann M

Description: Student may contact the instructor or department for information.

ENT 8300 Graduate Seminar

S-N only, 1 credit(s); prereq instr consent;

Instructor: Moon,Roger Dean

Description: Student may contact the instructor or department for information.

ENT 8594 Research in Entomology

S-N only, 1-16 credit(s), max credits 36, 6 completions allowed;

Instructor: 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: Ascerno,Mark E

Description: Student may contact the instructor or department for information.

ENT 8594 Research in Entomology

S-N only, 1-16 credit(s), max credits 36, 6 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

Description: Student may contact the instructor or department for information.

ENT 8594 Research in Entomology

S-N only, 1-16 credit(s), max credits 36, 6 completions allowed;

Instructor: Holzenthal,Ralph W

Description: Student may contact the instructor or department for information.

ENT 8594 Research in Entomology

S-N only, 1-16 credit(s), max credits 36, 6 completions allowed;

Instructor: Kurtti,Timothy J

Description: Student may contact the instructor or department for information.

ENT 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 PhD,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: Ragsdale PhD,David W

Description: Student may contact the instructor or department for information.

ENT 8594 Research in Entomology

S-N only, 1-16 credit(s), max credits 36, 6 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: Ferrington Jr,Leonard Charles

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: Pauls,Steffen

Description: Student may contact the instructor or department for information.

Entrepreneurship

3-306 CarlSMgt

ENTR 6020 Business Formation

A-F only, 4 credit(s); prereq MBA student;

Instructor: Rao,Dileep R

Description: Description This class is structured to help students analyze a new business opportunity, especially one without a history, and the key strategies and issues involved in starting a venture. The class is therefore designed for "apprenticeship-type real-life" replication. You should be open to analyzing unstructured situations. This course is designed for students who are interested in the venture field interested in starting, joining or acquiring their own businesses; as an intermediary/ consultant; as a financier (investment banker, commercial banker, development financier, etc.); or as a corporate executive involved in new product launches. Students are asked to analyze and discuss case studies of entrepreneurs who have started or acquired businesses and to develop reports analyzing an opportunity and developing a strategic plan for a business startup or acquisition to obtain insight into the startup process. Objectives 1. This course is designed to teach the students to apply the knowledge they have gained in previous courses in management, finance and marketing. 2. To understand the entrepreneurial process and the steps for successful entrepreneurial growth to help students achieve

venture and entrepreneurial goals The primary objective of this course is to provide intellectual resources to students who are currently involved in or committed to entrepreneurial and new product pursuits as well as those who are interested in understanding entrepreneurship as a business phenomenon, whether or not they wish to pursue entrepreneurial careers. Learning Outcomes Students will demonstrate the understanding of key concepts that are used to evaluate new business opportunities by analyzing the market potential, competitive edge and market share. Then they will implement the strategy to take advantage of the opportunity either via a startup or an acquisition by evaluating alternative competitive business and marketing strategies, and the management skills and experience required. Unique Opportunities / Learning Activities This class offers real-life opportunity evaluation and business formation experiences, including: - Discuss the framework for evaluating new business opportunities and business formation strategies so as to be able to apply them to new products/ ventures in your career. - Discuss cases of new ventures/ opportunities. - Hear entrepreneurs who have built their companies or are currently leading their ventures. Career Application and Competencies Developed The contents of this course can be used in a variety of careers, including: - New product launches in corporations or new ventures. - Evaluating opportunities to know which ones to pursue. - Know the key issues to pursue when evaluating your own new business opportunity.

ENTR 6021 Preparing and Implementing the Business Plan

A-F only, 2 credit(s), max credits 4, 1 completion allowed;

prereq MBA student;

Instructor: Rao,Dileep R

Description: Description Students work in a collaborative setting to write a business plan for their 'own' business venture launch, either via a startup or acquisition. The course includes weekly class meetings where each team of students presents various aspects of their business plan as they develop it, such as the elevator pitch, company mission, product/ service value proposition, customer and market segmentation, competitive analysis, business strategy, marketing plan and financial projections. Students analyze and provide feedback on each other's plans and learn from each other's analysis. At the end of the course, students present their written business plan. Objectives This course is designed to teach students how to write a business plan. The students are introduced to the requirements for a good business plan, and are expected to write and present their plan. Student will work in teams and write a plan for a business startup. Students have to present their business plans in class, and a "consultant" (another student team) is asked to analyze the business plan and make recommendations to the "clients" (the class) on whether or not they should finance or approve the venture. Learning Outcomes Students will demonstrate knowledge of how to: 1. Write a complete business plan; and 2. Analyze written business plans. Unique Opportunities / Learning Activities This class offers students the opportunity to write a 'reality-based' business plan that is targeted towards venture capitalists. Activities include: - Knowing the various sections of a business plan. - Understanding how investors read business plans and what they read ?between the lines.? - How to evaluate another team's business plan so as to understand the perspective of the consultant/ investment banker. - Present the business plan to ?raise money.? Career Application and Competencies Developed The contents of this course can be used in a variety of careers, including: - Entrepreneurs interested in finding the resources for high-growth ventures. - Those interested in consulting with new ventures. - Those interested in financing new ventures.

ENTR 6037 Corporate Venturing

A-F only, 2 credit(s); prereq MBA student;

Instructor: Nord,Tobin Lawrence

Description: Student may contact the instructor or department for information.

ENTR 6041 New Product Design and Business Development

A-F only, 4 credit(s), max credits 8; prereq MBA student;

Credit will not be granted if credit has been received for: ME 8221;

Instructor: Rao,Dileep R

Description: See the course web site for a complete description.

ENTR 6041 New Product Design and Business Development
A-F only, 4 credit(s), max credits 8; prereq MBA student;
Credit will not be granted if credit has been received for: ME 8221;

Instructor: Durfee,William K

Description: See the course web site for a complete description.

Environmental Sciences, Policy, and Management

ESPM 1001 Freshmen Orientation to Environmental Sciences, Policy, and Management

A-F only, 1 credit(s);

Instructor: Ferrington Jr,Leonard Charles

Description: Student may contact the instructor or department for information.

ESPM 1002 Transfer Orientation Seminar

A-F only, 1 credit(s);

Instructor: STAFF

Description: This required course provides orientation and guidance in planning for students transferring into the ESPM major. Course activities will describe careers, tracks within ESPM, and internships. Skill building provided includes information on searching for jobs and internships and writing of resumes.

Style: 60% Lecture, 40% Discussion.

Grading: 50% reports/papers, 50% other evaluation. Attendance and participation

ESPM 1011 Issues in the Environment

3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Environment Theme;

Instructor: Blinn,Charles R

Description: Student may contact the instructor or department for information.

ESPM 1011 Issues in the Environment

3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Environment Theme;

Instructor: Blinn,Charles R

Description: This course is an introductory, interdisciplinary survey of environmental issues that explores the connections between environmental sciences, policy, and management and personal, professional, and civic responsibility. On Mondays and Wednesdays, the instructors and a variety of guest speakers will introduce students to topics of current environmental concern, and on Fridays students will discuss these issues in small groups. The course emphasizes the social, political, and economic factors involved in environmental decision-making, and lectures are supplemented with videos and a course web site. The overarching question the course asks is: What should a sustainable society look like, and how should we attempt to achieve it? The specific topics it explores include: population and consumption; energy, climate change, and waste; land use (soils, forests, agriculture, water, and wetlands); and biodiversity (fisheries, wildlife, and endangered and invasive species). The course is intended for first-year students majoring in Environmental Sciences, Policy, and Management and for all students who are interested in the subject and wish to satisfy the University's liberal education requirements for Environment Theme and Citizenship and Public Ethics Theme. The course has no prerequisites and is suitable for students with little or no scientific background.

Style: 60% Lecture, 40% Discussion.

Grading: 15% final exam, 25% reports/papers, 35% special projects, 15% quizzes, 10% class participation.

Exam Format: Varies

ESPM 1011 Issues in the Environment

3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Environment Theme;

Instructor: Billmark,Kaycie A

Description: This course is an introductory, interdisciplinary survey of environmental issues that explores the connections between environmental sciences, policy, and management and personal, professional, and civic responsibility. On Mondays and Wednesdays, the instructors and a variety of guest speakers will introduce students to topics of current environmental concern, and on Fridays students will discuss these issues in small groups. The course emphasizes the social, political, and economic factors involved in environmental decision-making, and lectures are supplemented with videos and a course web site. The overarching question the course asks is: What should a sustainable society look like, and how should we attempt to achieve it? The specific topics it explores include: population and consumption; energy, climate change, and waste; land use (soils, forests, agriculture, water, and wetlands); and biodiversity (fisheries, wildlife, and endangered and invasive species). The course is intended for first-year students majoring in Environmental Sciences, Policy, and Management and for all students who are interested in the subject and wish to satisfy the University's liberal education requirements for Environment Theme and Citizenship and Public Ethics Theme. The course has no prerequisites and is suitable for students with little or no scientific background.

Style: 60% Lecture, 40% Discussion.

Grading: 15% final exam, 25% reports/papers, 35% special projects, 15% quizzes, 10% class participation.

Exam Format: Varies

ESPM 1425 The Atmosphere

A-F only, 4 credit(s); Credit will not be granted if credit has been received for: GEOG 1425; Meets CLE req of Environment Theme; meets CLE req of Physical Science/Lab Core;

Instructor: Klink,Katherine

Description: Weather is part of our everyday lives, sometimes memorably so, such as when we experience snowstorms, hurricanes, tornadoes, or heat waves. Our society also is increasingly concerned about environmental issues such as ozone depletion and climate change, which have a fundamental atmospheric component. What do we understand about how the atmosphere works? How might our own actions affect weather and climate? Our goals for this course are to: 1) learn about weather and climate, including the physical laws that govern the atmosphere, the current tools and technologies used to study the atmosphere, and to interpret weather and climate data; 2) experience and gain insight into the nature of science and scientific uncertainty; 3) become better able to evaluate critically scientific questions and claims, especially those concerning the human impacts on the atmosphere; 4) understand the limits to what we know about weather, climate, and climate change; and 5) reflect on our roles and responsibilities as agents of local and global environmental change, especially as related to the atmosphere. ? Goals 1-3 are directly related to the objectives of the Physical Science Core: to learn about key basic concepts and consequences regarding the natural laws, processes, and properties of matter and energy; to use basic research methods such as observation, hypothesis formation/testing, and/or computer simulations; understanding the limits and uncertainty associated with these methods; and to become more informed about the scientific basis of claims about climate and environmental change. ? Goals 3-5 are directly related to the objectives of the Environment Theme: to inform your understanding of the interrelationships between the non-human environment (e.g., the atmosphere) and human society; to introduce you to important underlying scientific principles within environmental issues, particularly as related to the atmosphere; to consider the possibilities and limitations of various technologies, practices, and policies aimed at adapting to, and/or mitigating, the potentially negative impacts of global climate change; and to reflect on our ethical commitments as global citizens on the issue of climate/environmental change. Questions we will try to answer include: What makes the wind blow? Why

don't all clouds produce rain? What causes thunderstorms and tornadoes? How do satellites work? How does El Niño affect the weather in North America? How do you make a weather forecast? Are human activities really affecting the atmosphere? What is the greenhouse effect, and should we be concerned about it? What do we know about climate change? This course fulfills the CLE Physical Science with Lab Core, and the Environment Theme. Prerequisites: Students are expected to be familiar with pre-college algebra (at the level of the standard University entrance requirement).

Style: 60% Lecture, 10% Discussion, 30% Laboratory.

Grading: 25% final exam, 30% additional semester exams, 45% laboratory evaluation.

Exam Format: multiple choice, short answer

part on readings, will be used to help you think critically about contemporary resource issues such as exotic species management.

Style: 35% Lecture, 25% Discussion, 40% Guest Speakers.

Grading: 80% quizzes, 10% class participation, 10% other evaluation.

ESPM 3011W Ethics in Natural Resources

3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Environment Theme; meets CLE req of Writing Intensive;

Instructor: Nerbonne, Julia Frost

Description: Student may contact the instructor or department for information.

ESPM 1901 Topics: Freshman Seminar: Human Impact on the Environment

3 credit(s); prereq Fr; Meets CLE req of Environment Theme;

Instructor: Bell, Jay

Description: Student may contact the instructor or department for information.

ESPM 1905 Freshman Seminar: State of the World 2009

1 credit(s), max credits 3, 1 completion allowed;

Instructor: Cooper, Terence H

Description: Student may contact the instructor or department for information.

ESPM 2401 Environmental Education/Interpretation

3 credit(s); prereq Soph;

Instructor: Carlson, Stephen Paul

Description: Class Description: This course will take a foundational view of Environmental Education/Naturalist, its history, theories, methodologies, and practical skills for outdoor teaching with the aim to make students aware of the strengths and weaknesses of the Environmental Education field. Upon completion of this course a student should: 1. Know the historic "roots" of environmental education 2. Develop an understanding of interpretation/naturalist 3. Understand principles of environmental education. 4. Use basic ecology with real world applications for teaching. 5. Understand relationships among social and natural systems. 6. Apply investigative skills to solve EE problems. 7. Apply Awareness to Action, Environmental Education model. 8. Use parks and other natural/man-made settings to teach EE. 9. Apply Environmental Education to MN's Graduation Standards. 10. Understand/Apply learning theory to teaching informal EE

Style: 60% Lecture, 40% Discussion.

Grading: 20% mid exam, 20% final exam, 20% reports/papers, 15% special projects, 5% quizzes, 15% in-class presentation, 5% class participation.

Exam Format: short answers, fill in the blank, matching, multiple choice essay and true/false

ESPM 3012 Statistical Methods for Environmental Scientists and Managers

A-F only, 4 credit(s); prereq Two yrs of high school math;

Credit will not be granted if credit has been received for:

STAT 3011;

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 3000 Seminar on Current Issues for ESPM: Essentials of Env Ldshp-Do YOU have what it takes?

A-F only, 1 credit(s), max credits 6, 6 completions allowed; prereq Jr;

Instructor: Stafford, Susan G

Description: Student may contact the instructor or department for information.

ESPM 3101 Conservation of Plant Biodiversity

A-F only, 3 credit(s); prereq Biol 1001 or Biol 1009; Credit will not be granted if credit has been received for: ESPM 5101; Meets CLE req of Environment Theme;

Instructor: David, Andrew J

Description: Student may contact the instructor or department for information.

ESPM 3002 Colloquium: Exotic Plants and Animals

A-F only, 1 credit(s);

Instructor: Newman, Raymond M

Description: This colloquium will introduce you to current issues related to invasive exotic species. We will consider a diverse array of exotics, their impacts and methods for control. I will provide a general overview of the subject, detail on a few topics, and a logical tie between topics. Sessions led by local experts will be interspersed with class discussions. These experts will relate their experiences and expertise on specific issues ranging from particular groups of exotics, to invasion theory, to real-world management. Assigned readings will be used to introduce topics and provide additional depth and breadth. Class discussion of primary literature and required questions for speakers, based in

ESPM 3108 Ecology of Managed Systems

3 credit(s); prereq BIOL 1001 or BIOL 1009 or HORT 1001 or instr consent; Credit will not be granted if credit has been received for: ESPM 5108;

Instructor: D'Amato, Anthony William

Description: Student may contact the instructor or department for information.

ESPM 3245 Sustainable Land Use Planning and Policy

A-F only, 3 credit(s); prereq All lower div RRM reqs or instr consent; Credit will not be granted if credit has been received for: ESPM 5245; Meets CLE req of Environment Theme;

Instructor: Davenport, Mae Allen

Description: Student may contact the instructor or department for information.

ESPM 3251 Natural Resources in Sustainable International Development

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: ESPM 5251; Meets CLE req of Environment Theme; meets CLE req of International Perspect Theme;

Instructor: Current, Dean Alan

Description: International perspectives on resource use in developing countries. Integration of natural resource issues with social, economic, and policy considerations. Overviews of agriculture, forestry, agroforestry, non-timber forest products, water resources, certification, and development issues. Latin American focus but also includes case studies from other developing regions of the world.

Style: 40% Lecture, 25% Discussion, 15% Student Presentation, 20% Guest Speakers.

Grading: 35% in-class presentation, 5% class participation. 60% exams

ESPM 3261 Economics and Natural Resources Management

A-F only, 4 credit(s); Credit will not be granted if credit has been received for: ESPM 5261; Meets CLE req of Environment Theme; meets CLE req of Social Science Core;

Instructor: Kilgore, Mike

Description: This course is designed to give students an understanding of and appreciation for the role economics plays in the management, use, and protection of natural resources. Its focus is to build student capacity to think critically about natural resources using economic decision-making criteria. The course emphasizes the practical application of economic principles and concepts to natural resource problems. The first third of the course focuses on developing an understanding of basic microeconomic concepts. The middle third of the course covers the tools and techniques used to value natural resources and evaluate natural resource projects using economic and financial criteria. The last third of the course extends these economic concepts, tools, and techniques to the management of various natural resources (e.g., forests, water). Prerequisite math skills for this course are limited to solving problems using algebra.

Style: 80% Lecture, 5% Small Group Activities, 15% Guest Speakers.

Grading: 33% mid exam, 25% final exam, 9% quizzes, 33% written homework.

ESPM 3271 Environmental Policy, Law, and Human Behavior

A-F only, 3 credit(s);

Instructor: Enzler, Sherry Anne

Description: For effective environmental change, we need to understand how human behavior, policy, and governance interact. Can policy become an effective tool for modifying human behavior to achieve environmental change? How do we reduce our environmental footprint with new laws while maintaining human wellbeing? How do human beings respond to laws and policy initiatives resulting in positive changes or unexpected consequences? You will learn the key concepts of government, law, as well as the philosophy and pragmatic operation of democracy. At the same time, you will investigate how law sets the course for influencing human attitudes, values, behaviors and social organization for environmental change. Lectures provide the theoretical concepts and international examples of laws and human behavior based on specific environmental issues. The focus is on international cases, with a few U.S. comparative cases, from the local to global scales. Guest speakers and class discussion provide an opportunity to apply the concepts to interpret concrete examples. To understand the material in action, each student will be involved with a service-learning project, with groups working on global warming, environmental laws, and human behavior.

Style: 20% Lecture, 20% Discussion. In class exercises, service learning

Grading: 10% final exam, 10% reports/papers, 80% quizzes.

Exam Format: short answer and essay

ESPM 3271 Environmental Policy, Law, and Human Behavior

A-F only, 3 credit(s);

Instructor: Nelson, Kristen C

Description: For effective environmental change, we need to understand how human behavior, policy, and governance interact. Can policy become an effective tool for modifying human behavior to achieve environmental change? How do we reduce our environmental footprint with new laws while maintaining human wellbeing? How do human beings respond to laws and policy initiatives resulting in positive changes or unexpected consequences? You will learn the key concepts of government, law, as well as the philosophy and pragmatic operation of democracy. At the same time, you will investigate how law sets the course for influencing human attitudes, values, behaviors and social organization for environmental change. Lectures provide the theoretical concepts and international examples of laws and human behavior based on specific environmental issues. The focus is on international cases, with a few U.S. comparative cases, from the local to global scales.

Guest speakers and class discussion provide an opportunity to apply the concepts to interpret concrete examples. To understand the material in action, each student will be involved with a service-learning project, with groups working on global warming, environmental laws, and human behavior.

Style: 20% Lecture, 20% Discussion. In class exercises, service learning

Grading: 10% final exam, 10% reports/papers, 80% quizzes.

Exam Format: short answer and essay

ESPM 3603 Environmental Life Cycle Analysis

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: MGMT 3603;

Instructor: Suh, Sangwon

Description: The course is designed to introduce to the concepts and procedures of Life Cycle Assessment (LCA), which is being broadly applied for policy supports, ecolabeling, design for environment and corporate environmental management. LCA is a tool to quantify and manage environmental impacts associated with products and services throughout their life cycles, including production, use and disposal/recycling. The first half of the course will be devoted to the methods and principles of LCA: Goal and Scope definition, Life Cycle Inventory (LCI) analysis, Life Cycle Impact Assessment (LCIA) and Interpretation, that are the main phases of LCA, will be covered. In the second half of the course, students will have an opportunity to form small groups and, per each, choose a particular product or a service to apply LCA. Students will be given an opportunity to present their works at the end of the course. Completing this class, the students are expected to acquire basic knowledge and skills to design and carry out an LCA study and to incorporate the results with a firm's environmental management strategy. ISO 14040 series on LCA, that is a part of the International Standards, will be extensively utilized. The class will combine lecture, discussion and group projects.

Style: 60% Lecture, 10% Discussion. Group work

Grading: 30% mid exam, 30% special projects, 10% in-class presentation, 10% class participation, 20% problem solving.

ESPM 3604 Environmental Management Systems and Strategy

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: ESPM 5604;

Instructor: Smith, Tim

Description: Environmental threats and opportunities are becoming increasingly important for business. Environmental problems such as climate change, ozone depletion and loss of biodiversity have become important national and international issues. Governments continue to adopt regulations and standards which influence industrial activity on a daily basis. Banks, insurance companies and other investors have become conscious of liabilities imposed by improper handling of materials and contamination of property. Suppliers and customers are also setting their own requirements. With the advent of the Business Charter on Sustainable Development, the European Environmental Management and Audit Scheme and the ISO series of environmental standards, companies are responding to these challenges by establishing structured environmental management systems. This course provides a theoretical and practical framework for understanding and evaluating

environmental impacts within business scenarios. The course enables students to effectively assess the strategic and tactical processes associated with environmental, business and policy trends facing today's organizations.

Style: 60% Lecture, 20% Discussion. student presentations and group projects

Grading: 20% reports/papers, 40% special projects, 10% quizzes, 10% class participation, 20% other evaluation. mid-semester exam(s)

Exam Format: multiple choice, essay, short answers

ESPM 3606 Pollution Prevention: Principles, Technologies, and Practices

A-F only, 3 credit(s); prereq CHEM 1011 or instr consent ;

Credit will not be granted if credit has been received for: ESPM 5606;

Instructor: McComas,Cindy Ann

Description: Industrial facilities use raw materials and resources and emit pollutants and wastes. The raw materials and resources used are converted into various forms of pollution through industrial operations. Both purchasing the input materials used and treating and disposing of the pollutants and wastes generated represent costs to a company. In this class, the methods by which a company can reduce both input materials and pollution and wastes are covered including better management, process and product modification, use of alternative materials and redirecting materials and energy flows. The course is comprised of (1) Overview of industrial emissions and the technologies to treat and reduce them, (2) Pollution prevention planning and implementation, (3) A field trip to a company, (4) Presentations on the industrial pollution prevention practices and (5) Group assessment project.

Style: 60% Lecture, 20% Discussion. Student presentations and group works

Grading: 20% mid exam, 20% reports/papers, 50% special projects, 10% class participation.

ESPM 3612W Soil and Environmental Biology

3 credit(s); prereq Biol 1009 or equiv, Chem 1021 or equiv; 2125 recommended; Meets CLE req of Writing Intensive;

Instructor: Allan,Deborah L

Description: Student may contact the instructor or department for information.

ESPM 4041W Problem Solving for Environmental Change

A-F only, 4 credit(s); prereq ESPM sr; Meets CLE req of Writing Intensive;

Instructor: Nelson,Kristen C

Description: Each year students in ESPM 4041W work with a client to perform 'real world' projects involving land use planning. Students work in groups of four to six people. The group's goal is to gather data relevant to the client's objectives, analyze the data and, based on the data, make recommendations for future use. Students will produce a final written report for the client, develop a formal presentation describing the findings, and present their findings to the client group.

ESPM 4061W Water Quality and Natural Resources

3 credit(s); Meets CLE req of Environment Theme; meets CLE req of Writing Intensive;

Instructor: Perry,Jim A

Description: The science and art of water quality decision making, with a strong international focus. We discuss ecology of aquatic ecosystems, how they are valuable to society, how they are changed by landscape management, and how we make informed decisions about that management. We rely heavily on case studies, impaired waters and the TMDL process, and student engagement in simulating water quality decision making.

Style: 30% Lecture, 30% Discussion, 25% Guest Speakers.

Grading: 20% mid exam, 20% final exam, 20% special projects, 20% in-class presentation, 20% class participation.

ESPM 4093 Directed Study

1-7 credit(s), max credits 20, 20 completions allowed; prereq instr consent ;

Instructor: Waterhouse,Beth E

Description: Student may contact the instructor or department for information.

ESPM 4093 Directed Study

1-7 credit(s), max credits 20, 20 completions allowed; prereq instr consent ;

Instructor: Nelson,Kristen C

Description: Student may contact the instructor or department for information.

ESPM 4093 Directed Study

1-7 credit(s), max credits 20, 20 completions allowed; prereq instr consent ;

Instructor: Nater,Ed

Description: Student may contact the instructor or department for information.

ESPM 4093 Directed Study

1-7 credit(s), max credits 20, 20 completions allowed; prereq instr consent ;

Instructor: Cooper,Terence H

Description: Student may contact the instructor or department for information.

ESPM 4093 Directed Study

1-7 credit(s), max credits 20, 20 completions allowed; prereq instr consent ;

Instructor: Suh,Sangwon

Description: Student may contact the instructor or department for information.

ESPM 4094 Directed Research

1-7 credit(s), max credits 7, 7 completions allowed; prereq instr consent ;

Instructor: Nater,Ed

Description: Student may contact the instructor or department for information.

ESPM 4094 Directed Research

1-7 credit(s), max credits 7, 7 completions allowed; prereq instr consent ;

Instructor: Cooper,Terence H

Description: Student may contact the instructor or department for information.

ESPM 4096 Professional Experience Program: Internship

1 credit(s), max credits 6, 6 completions allowed; prereq CFANS undergrad, instr consent , completed internship contract;

Instructor: Cooper,Terence H

Description: Student may contact the instructor or department for information.

ESPM 4200H Honors Seminar

A-F only, 1 credit(s); prereq ENR upper div honors, instr consent ;

Instructor: STAFF

Description: Student may contact the instructor or department for information.

ESPM 4216 Contaminant Hydrology

A-F only, 2 credit(s);

Instructor: Gupta,Satish C

Description: Student may contact the instructor or department for information.

ESPM 4295W GIS in Environmental Science and Management

A-F only, 4 credit(s); prereq FR 3131 or instr consent ; Meets CLE req of Writing Intensive;

Instructor: Jenks,Andrew Carl

Description: Application of spatial data inventory/analysis in complex environmental planning problems. Spatial data collection, database development methods including GPS, DLG, TIGER, NWI data, spatial analysis. Topics identified by non-University partners.

ESPM 4601 Soils and Pollution

3 credit(s); prereq [2125, [Chem 1021 or equiv], [Phys 1042 or equiv]] or instr consent ; 3416 recommended;

Instructor: Bloom,Paul Ronald

Description: Student may contact the instructor or department for information.

ESPM 4608 Bioremediation

A-F only, 2 credit(s); prereq [BIOL 1001 or BIOL 1009], CHEM 1011; Credit will not be granted if credit has been received for: ESPM 5608;

Instructor: Schilling,Jonathan Scott

Description: Bioremediation is the use of organisms, often microbes or their enzymes, to detoxify contaminants either in the field (in situ) or in containment facilities (ex situ). This is a rapidly-growing field that also has a long tradition. This Bioremediation course aims to introduce the fundamentals, survey the discipline, and discuss contemporary applications. In the course, we will 1) define 'contaminants', sources and environmental fates, 2) characterize biological organisms, pathways and catalysts utilized in bioremediation, and 3) discuss site inspection practices, bioremediation technologies and application in real-world situations. Teaching will combine lectures with hands-on experiences. Students will also be assigned out-of-class projects (with worksheets) that will be either solo or in groups, and a short presentation will be required along with a short writing assignment.

Style: 60% Lecture, 20% Discussion. class projects

Grading: 45% mid exam, 15% final exam, 10% class participation, 30% problem solving.

Exam Format: multiple choice, short and long answer, diagnostics

ESPM 4801H Honors Research

A-F only, 2 credit(s); prereq ENR upper div honors, instr consent;

Instructor: STAFF

Description: Student may contact the instructor or department for information.

ESPM 4802H Honors Research

A-F only, 2 credit(s); prereq ENR upper div honors, instr consent;

Instructor: STAFF

Description: Student may contact the instructor or department for information.

ESPM 5019 Business, Natural Environment, and Global Economy

A-F only, 2 credit(s);

Instructor: Marcus,Alfred A

Description: Student may contact the instructor or department for information.

ESPM 5061 Water Quality and Natural Resources

3 credit(s); prereq Grad student or instr consent ;

Instructor: Perry,Jim A

Description: Review and discussion of recent literature in field complements the material covered in ESPM 4061; co-attendance is required. 4061 also addresses the science and art of water quality decision making, with a strong international focus. We discuss ecology of aquatic ecosystems, how they are valuable to society, how they are changed by landscape management, and how we make informed decisions about that management. We rely heavily on case studies, impaired waters and the TMDL process, and student engagement in simulating water quality decision making. Workload is in addition to that listed for ESPM 4061W

Style: 10% Lecture, 60% Discussion, 30% Student Presentation.

Grading: 20% mid exam, 20% final exam, 30% in-class presentation, 30% class participation.

ESPM 5101 Conservation of Plant Biodiversity

A-F only, 3 credit(s); prereq Grad student or instr consent ;

Credit will not be granted if credit has been received for: ESPM 3101;

Instructor: David,Andrew J

Description: Student may contact the instructor or department for information.

ESPM 5108 Ecology of Managed Systems

A-F only, 4 credit(s); prereq Sr or grad student; Credit will not be granted if credit has been received for: ESPM 3108;

Instructor: D'Amato,Anthony William

Description: Student may contact the instructor or department for information.

ESPM 5245 Sustainable Land Use Planning and Policy

A-F only, 3 credit(s); prereq Grad student or instr consent; Credit will not be granted if credit has been received for:

ESPM 3245;

Instructor: Davenport,Mae Allen

Description: Student may contact the instructor or department for information.

ESPM 5251 Natural Resources in Sustainable International Development

A-F only, 3 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for:

ESPM 3251;

Instructor: Current,Dean Alan

Description: International perspectives on resource use in developing countries. Integration of natural resource issues with social, economic, and policy considerations. Overviews of agriculture, forestry, agroforestry, non-timber forest products, water resources, certification, and development issues. Latin American focus but also includes case studies from other developing regions of the world.

Style: 40% Lecture, 25% Discussion, 15% Student Presentation, 20% Guest Speakers.

Grading: 20% reports/papers, 20% in-class presentation, 10% class participation. 50% exams

ESPM 5261 Economics and Natural Resources Management

A-F only, 4 credit(s); prereq Grad student or instr consent; Credit will not be granted if credit has been received for:

ESPM 3261;

Instructor: Kilgore,Mike

Description: This course is designed to give students an understanding of and appreciation for the role economics plays in the management, use, and protection of natural resources. Its focus is to build student capacity to think critically about natural resources using economic decision-making criteria. The course emphasizes the practical application of economic principles and concepts to natural resource problems. The first third of the course focuses on developing an understanding of basic microeconomic concepts. The middle third of the course covers the tools and techniques used to value natural resources and evaluate natural resource projects using economic and financial criteria. The last third of the course extends these economic concepts, tools, and techniques to the management of various natural resources (e.g., forests, water). Prerequisite math skills for this course are limited to solving problems using algebra.

Style: 80% Lecture, 5% Small Group Activities, 15% Guest Speakers.

Grading: 33% mid exam, 25% final exam, 9% quizzes, 33% written homework.

ESPM 5295 GIS in Environmental Science and Management

A-F only, 4 credit(s); prereq Grad student or instr consent ;

Instructor: Jenks,Andrew Carl

Description: Application of spatial data inventory/analysis in complex environmental planning problems. Spatial data collection, database development methods including GPS, DLG, TIGER, NWI data, spatial analysis. Topics identified by non-University partners.

ESPM 5555 Wetland Soils

A-F only, 3 credit(s); prereq 1125 or 2125 or equiv or instr consent ; Concurrent registration is required (or allowed) in 4511 recommended; Credit will not be granted if credit has been received for: SOIL 5555;

Instructor: Anderson, James L

Description: Student may contact the instructor or department for information.

ESPM 5603 Environmental Life Cycle Analysis

A-F only, 3 credit(s); prereq [Math 1142 or [Math 1271, Math 1282]], [Econ 1101 or ApEc 1101];

Instructor: Suh, Sangwon

Description: The course is designed to introduce to the concepts and procedures of Life Cycle Assessment (LCA), which is being broadly applied for policy supports, ecolabeling, design for environment and corporate environmental management. LCA is a tool to quantify and manage environmental impacts associated with products and services throughout their life cycles, including production, use and disposal/recycling. The first half of the course will be devoted to the methods and principles of LCA: Goal and Scope definition, Life Cycle Inventory (LCI) analysis, Life Cycle Impact Assessment (LCIA) and Interpretation, that are the main phases of LCA, will be covered. In the second half of the course, students will have an opportunity to form small groups and, per each, choose a particular product or a service to apply LCA. Students will be given an opportunity to present their works at the end of the course. Completing this class, the students are expected to acquire basic knowledge and skills to design and carry out an LCA study and to incorporate the results with a firm's environmental management strategy. ISO 14040 series on LCA, that is a part of the International Standards, will be extensively utilized. The class will combine lecture, discussion and group projects.

Style: 60% Lecture, 10% Discussion. Group work

ESPM 5604 Environmental Management Systems and Strategy

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: ESPM 3604;

Instructor: Smith, Tim

Description: Environmental threats and opportunities are becoming increasingly important for business. Environmental problems such as climate change, ozone depletion and loss of biodiversity have become important national and international issues. Governments continue to adopt regulations and standards which influence industrial activity on a daily basis. Banks, insurance companies and other investors have become conscious of liabilities imposed by improper handling of materials and contamination of property. Suppliers and customers are also setting their own requirements. With the advent of the Business Charter on Sustainable Development, the European Environmental Management and Audit Scheme and the ISO series of environmental standards, companies are responding to these challenges by establishing structured environmental management systems. This course provides a theoretical and practical framework for understanding and evaluating environmental impacts within business scenarios. The course enables students to effectively assess the strategic and tactical processes associated with environmental, business and policy trends facing today's organizations.

Style: 60% Lecture, 20% Discussion. student presentations and group projects

Exam Format: multiple choice, essay, short answers

ESPM 5606 Pollution Prevention: Principles, Technologies, and Practices

A-F only, 3 credit(s); prereq CHEM 1011 or instr consent ; Credit will not be granted if credit has been received for: ESPM 3606;

Instructor: McComas, Cindy Ann

Description: Industrial facilities use raw materials and resources and emit pollutants and wastes. The raw materials and resources used are converted into various forms of pollution through industrial operations. Both purchasing the input materials used and treating and disposing of the pollutants and wastes generated represent costs to a company. In this class, the methods by which a company can reduce both input materials and pollution and wastes are covered including better management, process and product modification, use of alternative materials and redirecting materials and energy flows.

The course is comprised of (1) Overview of industrial emissions and the technologies to treat and reduce them, (2) Pollution prevention planning and implementation, (3) A field trip to a company, (4) Presentations on the industrial pollution prevention practices and (5) Group assessment project.

Style: 60% Lecture, 20% Discussion. Student presentations and group works

Grading: 20% mid exam, 20% reports/papers, 50% special projects, 10% class participation.

ESPM 5608 Bioremediation

A-F only, 2 credit(s); prereq [BIOL 1001 or BIOL 1009], CHEM 1011; Credit will not be granted if credit has been received for: ESPM 4608;

Instructor: Schilling, Jonathan Scott

Description: Bioremediation is the use of organisms, often microbes or their enzymes, to detoxify contaminants either in the field (in situ) or in containment facilities (ex situ). This is a rapidly-growing field that also has a long tradition. This Bioremediation course aims to introduce the fundamentals, survey the discipline, and discuss contemporary applications. In the course, we will 1) define 'contaminants', sources and environmental fates, 2) characterize biological organisms, pathways and catalysts utilized in bioremediation, and 3) discuss site inspection practices, bioremediation technologies and application in real-world situations. Teaching will combine lectures with hands-on experiences. Students will also be assigned out-of-class projects (with worksheets) that will be either solo or in groups, and a short presentation will be required along with a short writing assignment.

Style: 60% Lecture, 20% Discussion. class projects

Grading: 45% mid exam, 15% final exam, 10% class participation, 30% problem solving.

Exam Format: multiple choice, short and long answer, diagnostics

Experimental and Clinical Pharmacology

7-159 WDH

ECP 8100 Seminar

1 credit(s), max credits 8, 8 completions allowed; prereq SACP grad major in ECP track or instr consent;

Instructor: Johnson PhD, L'Aurelle Anna Lee

Description: Student may contact the instructor or department for information.

ECP 8410 Population Pharmacokinetic Modeling

A-F only, 2 credit(s);

Instructor: Brundage, Richard

Description: Student may contact the instructor or department for information.

ECP 8430 Advances in Pharmacometrics Modeling and Simulation

S-N only, 1 credit(s), max credits 6, 6 completions allowed; prereq Grad student in ECP or PHM or instr consent ;

Instructor: Brundage, Richard

Description: Student may contact the instructor or department for information.

ECP 8900 Advanced Topics in Experimental and Clinical Pharmacology

1-4 credit(s), max credits 8, 4 completions allowed; prereq SACP grad major in ECP track or instr consent;

Instructor: Brundage, Richard

Description: Student may contact the instructor or department for information.

ECP 8900 Advanced Topics in Experimental and Clinical Pharmacology

1-4 credit(s), max credits 8, 4 completions allowed; prereq

SACP grad major in ECP track or instr consent;
Instructor: Skaar,Debra Jane
Description: Student may contact the instructor or department for information.

ECP 8900 Advanced Topics in Experimental and Clinical Pharmacology
1-4 credit(s), max credits 8, 4 completions allowed; prereq SACP grad major in ECP track or instr consent;
Instructor: Noreddin PhD,Ayman M
Description: Student may contact the instructor or department for information.

ECP 8992 Directed Readings in Experimental and Clinical Pharmacology
1-2 credit(s), max credits 4, 4 completions allowed;
Instructor: Peterson,Marnie Lorraine
Description: Student may contact the instructor or department for information.

ECP 8993 Directed Study in Experimental and Clinical Pharmacology
1-4 credit(s), max credits 4;
Instructor: Brundage,Richard
Description: Student may contact the instructor or department for information.

ECP 8993 Directed Study in Experimental and Clinical Pharmacology
1-4 credit(s), max credits 4;
Instructor: 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: Brundage,Richard C
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: Tracy,Tim
Description: Student may contact the instructor or department for information.

Family Medicine and Community Health

6-240 Phillips-Wangensteen (MMC 381)

FMCH 5960 Basic Research Methods in Family Practice
A-F only, 3 credit(s); prereq Post-MD fellow, instr consent;
Instructor: Yeazel,Mark William
Description: Student may contact the instructor or department for information.

FMCH 5961 Family Medicine Fellows and Junior Faculty Integration Seminar
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed; prereq [Family medicine faculty or fellow], instr consent ;
Instructor: Bland,Carole Jeanne
Description: Student may contact the instructor or department for information.

Family Social Science

290 McNeal Hall

FSOS 1101 Intimate Relationships
4 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;
Instructor: Mendenhall PhD,Tai Justin
Description: Intimate Relationships is a course that focuses on the interpersonal dynamics of couples, and on the dynamics of couples in-context. We will explore how intimate relationships evolve and develop and how they succeed or fail. We will talk about a variety of important relationship topics and skills, including dating, hooking-up, cohabitation, marriage, sexual orientation, gender roles & power, communication & conflict resolution, relationship problems (e.g., abuse, infidelity, divorce), and couple enrichment/couples therapy. The course's principal goal is to provide an overview of these and related topics, and to help you gain a deeper appreciation and awareness of their importance.
Style: 50% Lecture, 10% Film/Video, 20% Discussion, 20% Small Group Activities.
Grading: 33% final exam, 33% reports/papers, 33% quizzes.
Exam Format: Multiple Choice + Essay

FSOS 1201 Human Development in Families: Lifespan
4 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;
Instructor: Gewirtz,Abigail
Description: This course provides a survey of human development in a family context while emphasizing the role of diversity in shaping family environments. Using life course theory and human development theories, the course addresses the interlocking paths of individual and family development, beginning with birth and continuing through the life cycle. It addresses the basic processes involved in physical, cognitive, language, social, and personality development and how they are interrelated. It interweaves the ways in which historical, social, and cultural factors, including ethnicity, gender, class and sexual orientation, influence family context, which in turn, influences individual development. The course is strongly grounded in theory and research, but also explores how theory and research findings are applied to everyday lives. Class lectures and discussions will not simply repeat the material in the textbook or readings. We will use class time to go beyond the readings, focusing on specific issues about families and development and exploring points of current interest and controversy. We will also examine social science data on current issues in development to understand how theories are applied in developmental research. Students will work individually and in small groups to evaluate findings in developmental research, and to apply a developmental lifespan perspective to major issues in today's society. This course is designed for undergraduates who seek a broad introduction to human development in family contexts across the entire lifespan. It is especially relevant for students interested in human services career paths. This course fulfills liberal education requirements for the Social Science core and the Diversity and Social Justice theme.
Style: 40% Lecture, 15% Film/Video, 20% Discussion, 15% Small Group Activities, 5% Student Presentation, 5% Guest Speakers.
Grading: 68% mid exam, 25% reports/papers, 7% class participation.

FSOS 1301 Cash or Credit: You Need to Know
A-F only, 1 credit(s); prereq Fr or soph or PSEO;
Instructor: Zuiker,Virginia Solis
Description: College students are referred to as "America's newest class of debtors" by the media. They are targeted for easy-to-get credit cards and also may have large student loans. FSOS 1301 is a course that provides PSEO students, freshmen and sophomore students with factual information about basic money management skills. The great thing about this class is that the topics covered in class can be applied to every day life, even the life that exists outside of college. This is an on-line, interactive learning based class.
Style: 100% Web Based. Distance learning, web-based
Grading: 40% reports/papers, 60% quizzes.
Exam Format: Multiple choice

FSOS 2101 Preparation for Working With Families**A-F only, 2 credit(s);****Instructor:** Goodman, William Joseph

Description: This course is designed to be a systematic preparation for upper division education, research and field internships, and career possibilities in Family Social Science. Central to the focus of this course is also the advancement of students' thinking power by utilizing five levels of thinking outlined by Bloom, 1956. These five levels: knowledge, comprehension, application, analysis, evaluation, and synthesis are used in responding to the course text, "Becoming a Helper" by Marianne and Gerald Corey (2007) and workbook assignments. Book and class topics include the following: Are the Helping Professions for You? Getting the Most from Your Education and Training, Stages in the Helping Process, Common Concerns of Beginning Helpers, Ethical Issues Facing Helpers, Values and the Helping Relationship, Cultural Diversity in the Helping Professions, Working in the Community, Working with Groups, Working with the Family, Understanding Life Transitions, Stress and Burnout, and The Challenge of Retaining Your Vitality. To review course requirements, goals and objectives, and additional information about this course, students are encouraged to view the syllabus on the WEB.

Style: 20% Lecture, 40% Discussion, 20% Laboratory.**Grading:** PLEASE NOTE that this course uses Contract Grading

Description: The independent study course is for field, library, and laboratory research in family social science. The topics, course content, and readings for the course are developed under the guidance of the supervising faculty member. Prior registration approval is necessary.

FSOS 3101 Personal and Family Finances**3 credit(s); prereq At least soph or instr consent ;****Instructor:** Solheim, 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: 45% Lecture, 15% Film/Video, 15% Discussion, 10% Small Group Activities, 15% Guest Speakers.

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 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? to enable family policy to come alive and be seen as real and relevant to the personal and professional lives of the students. I do not intend to have the students complete the class espousing my political views, but rather to explore more fully a range of political perspectives in an attempt to determine their own views on current family issues. Students are evaluated on their ability to articulate a particular view, identify its theoretical underpinnings, support it with empirical findings, and refute alternative views.

Style: 30% Lecture, 5% Film/Video, 25% Discussion, 30% Small Group Activities, 10% Guest Speakers.**Grading:** 30% reports/papers, 30% special projects, 15% quizzes, 15% written homework, 10% class participation.**FSOS 3101 Personal and Family Finances****3 credit(s); prereq At least soph or instr consent ;****Instructor:** Katras, Mary Jo Bartl

Description: This is a three-credit core course in the Family Social Science bachelor's major. It is required for the major and is also appropriate for those who are interested in gaining practical knowledge of personal finance. This course focuses on personal and family finances, not corporate or government finances. It will address financial pitfalls such as too much debt and investing scams. However, the focus is on financial strategies and tools, economic security, and ways to build assets.

Style: 100% Web Based.

Grading: 25% final exam, 15% quizzes. Weekly on-line discussion--15% Case Applications--15% Personal Financial Planner--30%

Exam Format: Multiple Choice**FSOS 2105 Methods in Family Research**

3 credit(s); prereq PSTL 1004 or STAT 1001 or OMS 2550 or ESPY 3264 or STAT 3011 or PSY 4801 or instr consent ; Credit will not be granted if credit has been received for: FSOS 4105;

Instructor: Rueter, Martha A

Description: This course is designed to give you the opportunity to develop the skills you need to be an intelligent consumer of scientifically based information about families. Topics covered include how to access current research on families, the scientific process and components of a well-executed family study, and social, ethical, and contextual factors that make studying families both exciting and challenging.

Style: 35% Lecture, 20% Discussion, 20% Small Group Activities, 25% Guest Speakers.**Grading:** 30% mid exam, 30% final exam, 40% written homework.**FSOS 3102 Family Systems and Diversity**

3 credit(s); prereq At least soph or instr consent; Credit will not be granted if credit has been received for: FSOS 5101; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;

Instructor: Xiong PhD, Zha Blong

Description: This course examines family systems across the lifespan using a variety of family theories (i.e., the family systems theory, the human ecology theory, the family development theory, etc.). It introduces students to diversity issues related to gender, class, ethnicity/race, sexual orientation, disability, as well as emergent family forms (i.e., cohabitation, divorce, single parenthood, and remarriage) in the context of the latest research.

Style: 50% Lecture, 15% Film/Video, 10% Discussion, 15% Small Group Activities, 10% Student Presentation.

Grading: 32% mid exam, 32% final exam, 16% reports/papers, 10% quizzes, 10% reflection paper.

FSOS 3102 Family Systems and Diversity

3 credit(s); prereq At least soph or instr consent; Credit will not be granted if credit has been received for: FSOS 5101; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;

Instructor: Piescher PhD, Kristine Nicole

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

FSOS 2191 Independent Study in Family Social Science

1-4 credit(s), max credits 12, 12 completions allowed; prereq Soph, instr consent ;

Instructor: STAFF

research. This course satisfies the University's CLE requirements as a cultural diversity course, which means it offers understanding of the roles gender, ethnicity, and race play in structuring the human experience in (and development of) the social and cultural fabric of the United States. It also satisfies the University's CLE requirements as a core social science course. This means that this course includes knowledge of how social scientists describe and analyze human experiences and behavior; study the interrelationships among individuals, institutions, structures, event, and ideas. It also offers understanding of the roles individuals and families play in their historical, cultural, social, economic, and political worlds.

Style: 55% Lecture, 15% Film/Video, 15% Discussion, 15% Small Group Activities.

Grading: 14% mid exam, 29% final exam, 11% special projects, 29% quizzes, 17% reflection paper.

Exam Format: multiple choice; fill in the blank, true or false, and short answer

FSOS 3104 Global and Diverse Families

3 credit(s); prereq at least Soph or instr consent; Credit will not be granted if credit has been received for: FSOS 4102;

Instructor: Solheim, 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/outsider 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: 25% final exam, 20% special projects, 25% journal, 30% class participation. Attendance is importance 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); prereq at least Soph or instr consent; Credit will not be granted if credit has been received for: FSOS 4102;

Instructor: Rosenblatt, Paul C

Description: Perspective on family dynamics of various racial/ethnic populations in the United States and other countries in the context of national and international economic, political, and social processes. Topics include learning how to understand other individuals and cultures in their own terms and in terms of local, national, and world wide systems; human rights issues; gender and sexual orientation in cross-cultural perspective; theories about racism, privilege, and whiteness; African-American families; American Indian families; Mexican-American families; Hmong and other recent immigrant families from Southeast Asia; Somali and other recent immigrant families; population policy; and economic, monetary, and trade policy.

Style: 42% Lecture, 25% Film/Video, 33% Discussion.

Grading: 44% final exam, 11% reports/papers, 44% quizzes.

Exam Format: choice between (a) all short essays versus (b) mostly multiple choice questions with one or a small number of short essays

FSOS 3191 Independent Study in Family Social Science

1-5 credit(s), max credits 12, 12 completions allowed; prereq

Jr, instr consent ;

Instructor: STAFF

Description: The independent study course is for field, library, and laboratory research in family social science. The topics, course content, and readings for the course are developed under the guidance of the supervising faculty member. Prior registration approval is necessary.

FSOS 3426 Alcohol and Drugs: Families and Culture

3 credit(s); Credit will not be granted if credit has been received for: FSOS 5426; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;

Instructor: Jankord, John Lamont

Description: This course provides an integrated overview of the psychology and sociology of psychoactive drug use, abuse, addiction, and evidenced-based treatment approaches in contemporary American society. The complex relationships between individual, group, and socio-cultural dimensions of drug using behavior will be explored. Special attention is given to variables of ethnicity, gender, sexuality, and social class. The bio-psycho-socio-cultural model is used to conceptualize addiction and its treatment. Lectures, readings, large and small group discussions and projects, and individual research and writing projects are used to advance the student knowledge and understanding.

Style: 23% Lecture, 15% Film/Video, 22% Discussion, 15% Small Group Activities, 15% Student Presentation, 10% Guest Speakers.

Grading: 14% mid exam, 14% final exam, 14% reports/papers, 6% special projects, 8% attendance, 14% journal, 14% reflection paper, 7% in-class presentation, 9% class participation.

FSOS 3429 Counseling Skills Practicum I

3 credit(s); Credit will not be granted if credit has been received for: FSOS 5429;

Instructor: Meyer, Cynthia Jo

Description: This course is designed to provide students the listening skills necessary to establish a helping relationship and to promote the personal growth and development of people they will see in their future work. It helps students develop skills that are critical in helping other people, including individuals, couples and families. Through class lecture, practice, written exercises, and discussion, this course focuses both on self-awareness about one's desire to help others as well as developing basic skills in helping others.

Style: 50% Lecture, 20% Discussion. skills practice

Grading: 30% final exam, 25% reports/papers, 10% special projects, 15% class participation, 20% other evaluation. Homework assignments

Exam Format: multiple choice and short essay

FSOS 3429 Counseling Skills Practicum I

3 credit(s); Credit will not be granted if credit has been received for: FSOS 5429;

Instructor: Jankord, John Lamont

Description: This course is designed to provide students with the basic skills necessary to establish a helping relationship and to promote the preferred goals and objectives of the people they will see in their future work. The course will provide students with the basics of joining and assist in the development of interpersonal skills necessary to establish a helping relationship. Effective helping skills can be learned, therefore, the greatest part of the course will be spent on the teaching and practice of basic counseling skills, which have been found to be critical in helping people reach their goals and objectives. An additional benefit of this training process may be increased self-awareness of the participants. It seems essential that all people who wish to help others are aware of their strengths, abilities, growth areas, and their needs and motivations to help others. This will be an involving course in which the demands are personal and interpersonal. It is anticipated that the counseling skills learned in this course (as well as the self-awareness developed) will be useful both professionally and personally.

Style: 35% Lecture, 25% Film/Video, 20% Small Group Activities, 20% Student Presentation.

Grading: 15% final exam, 10% reports/papers, 30% written

homework, 15% attendance, 15% reflection paper, 15% in-class presentation.

Exam Format: This exam will focus on material covered in class lecture, discussion, and all assigned reading material. The general format of this test will include multiple-choice, true/false, and short answer, short essay

FSOS 4101 Sexuality and Gender in Families and Close Relationships

3 credit(s); prereq At least jr or instr consent ;

Instructor: Meyer,Cynthia Jo

Description: Sexuality and Gender in Families and Close Relationships provides students an opportunity to learn about current research in the field of sexuality, develop comfort applying this information in professional settings, utilize and develop critical thinking skills to examine evidence and biases in the field of sexual science, and to clarify and confirm sexual values as well as understand the impact these values have on one's personal and professional relationships. A variety of topics will be covered including family communication and sexuality education, body image, gender development and development of gender roles, sexuality research, developing healthy sexuality in children, adolescent sexuality, attraction and intimacy, mate selection and other sexuality related topics of importance to relationships and families

Style: 60% Lecture, 30% Discussion. small group presentations and film

Grading: 30% mid exam, 30% final exam, 20% reports/papers, 10% special projects, 10% class participation.

Exam Format: multiple choice

FSOS 4104W Family Psychology

3 credit(s); prereq At least jr or instr consent; Meets CLE req of Writing Intensive;

Instructor: Piescher PhD,Kristine Nicole

Description: This course addresses processes that take place in families of origin, families of choice, and other close relationships within diverse social contexts. Emphasis is placed on evaluating current research on family dynamics within and across generations. Family Psychology is an advanced undergraduate course that graduate students may take with permission. It is assumed that students are familiar with family theories and concepts and with basic principles of social science research. Family Psychology is a writing intensive course. This means the course grade is directly tied to the quality of the student's writing as well as to knowledge of the subject matter. Students who do not meet the minimal standards of writing competence cannot pass the course. For more information, see the Center for Interdisciplinary Studies of Writing at the web site: <http://cisw.cla.umn.edu> . Writing assistance is also available at the U of M Writing Support Network.

Style: 50% Lecture, 5% Film/Video, 15% Discussion, 20% Small Group Activities, 10% Student Presentation.

Grading: 11% final exam, 38% reports/papers, 22% special projects, 17% quizzes, 6% in-class presentation, 6% class participation.

FSOS 4104W Family Psychology

3 credit(s); prereq At least jr or instr consent; Meets CLE req of Writing Intensive;

Instructor: Lassig,Sara Lynn

Description: This course addresses processes that take place in families of origin, families of choice, and other close relationships within diverse social contexts. Emphasis is placed on evaluating current research on family dynamics within and across generations. Family Psychology is an advanced undergraduate course that graduate students may take with permission. It is assumed that students are familiar with family theories and concepts and with basic principles of social science research. Family Psychology is a writing intensive course. This means the course grade is directly tied to the quality of the student's writing as well as to knowledge of the subject matter. Students who do not meet the minimal standards of writing competence cannot pass the course. For more information, see the Center for Writing at the web site: <http://writing.umn.edu/>.

Style: 50% Lecture, 5% Film/Video, 15% Discussion, 15% Small

Group Activities, 10% Student Presentation, 5% Guest Speakers.

Grading: 30% reports/papers, 10% special projects, 25% quizzes, 5% written homework, 5% attendance, 10% reflection paper, 5% in-class presentation, 10% other evaluation.

FSOS 4153 Family Financial Counseling

A-F only, 3 credit(s); prereq [3101, 3102, 3429] or instr consent;

Instructor: Zuiker,Virginia Solis

Description: Family financial issues are studied with an emphasis on the role of the financial counselor. This course emphasizes the development of professional skills for assisting individuals and families to cope with financial concerns in their day-to-day lives. This course is designed to increase awareness and knowledge of the characteristics of persons in serious financial difficulties, complexity of factors affecting such situations, desirable relationships between the helper and the helped, and community agencies and organizations with appropriate resources. A basic knowledge of family finance is expected. Students completing this course are eligible to take the Accredited Financial Counselor (AFC) exam administered by the Institute for Personal Finance (IPF). Successful completion of the two courses does not equate passing the Accredited Financial Counselor exam.

Style: 40% Lecture, 5% Film/Video, 20% Discussion, 10% Small Group Activities, 10% Student Presentation, 10% Guest Speakers, 5% Web Based.

Grading: 41% mid exam, 20% reports/papers, 27% written homework, 12% class participation.

FSOS 4155 Parent-Child Relationships

A-F only, 3 credit(s); prereq At least jr or instr consent;

Instructor: Magistad,Beth Maddock

Description: This course will cover history, theories, research, and contemporary practices of parent-child relationships in diverse families across the life span. Students will apply theories studied in class to parent-child observations. The course helps to prepare students for professional work in education, social work and other human service occupations as well as to examine parenting from a personal perspective.

Style: 65% Lecture, 10% Film/Video, 10% Discussion, 10% Small Group Activities, 5% Student Presentation.

Grading: 13% mid exam, 13% final exam, 15% reports/papers, 15% special projects, 8% written homework, 26% additional semester exams, 2% in-class presentation, 7% class participation.

Exam Format: Multiple choice

FSOS 4160H Honors Capstone Project

A-F only, 2 credit(s), max credits 4; prereq FSos honors;

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; prereq Sr, instr consent ;

Instructor: STAFF

Description: The independent study course is for field, library, and laboratory research in family social science. The topics, course content, and readings for the course are developed under the guidance of the supervising faculty member. Prior registration approval is necessary.

FSOS 4294 Research Internship

1-4 credit(s), max credits 4, 1 completion allowed; prereq [FSOS major, at least jr] or instr consent;

Instructor: STAFF

Description: Students work on research projects with Family Social Science faculty that may include research planning, proposal writing, literature review, data collection, data coding and/or cleaning, data analysis and research reporting.

FSOS 4296 Field Study: Working With Families

S-N only, 1-12 credit(s), max credits 12, 4 completions

allowed; prereq [2101, at least jr] or instr consent;

Instructor: Goodman, William Joseph

Description: This course consists of 180 hours of directed paraprofessional work experience related to the student's applied interest. While the unit of focus is on families throughout this course, student involvement in agencies may range from working with the Minnesota State Legislature (Family Policy) to Family Financial Counseling (Family Economics) to Nursing Homes (Family Health Care). A multitude of Minnesota State, National, and International social service agencies are utilized in providing students with an experience that best advances their thinking and working. This course is further designed to integrate the whole of a student's undergraduate work by requiring students to complete a professional portfolio suitable for use during job interviews upon graduation. To review course requirements, goals and objectives, and additional information about this course, students are encouraged to view the syllabus on the WEB. This course is for Family Social Science undergraduate majors only.

Style: 100% Discussion.

Grading: 5% in-class presentation, 5% laboratory evaluation, 90% other evaluation. community service

FSOS 5032 Family Systems Theories and Interventions

3 credit(s); prereq Grad student or instr consent ;

Instructor: Wieling, Elizabeth

Description: The purpose of this course is to carefully examine systemic and cybernetic frameworks as they apply to diverse families. The course will help students think systemically about families across multiple ecological systems. Students will also learn to identify the crucial epistemological issues in both theoretical and applied areas of family science. Students will be introduced to the major theoretical frameworks that inform family scientists and clinicians. Learning activities will incorporate a variety of pedagogical approaches including experiential role-playing, guest presenters, multimedia, field work, research projects, reading groups, and class discussion.

FSOS 5193 Directed Study in Family Social Science

1-6 credit(s), max credits 6, 1 completion allowed; prereq FSoS or grad student in related field;

Instructor: STAFF

Description: The directed study course is for field, library, and laboratory research in family social science. The topics, course content, and readings for the course are developed under the guidance of the supervising faculty member. Prior registration approval is necessary.

FSOS 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 8001 Conceptual Frameworks in the Family

3 credit(s); prereq Family course or instr consent;

Instructor: Hogan-Schiltgen, M Janice

Description: This seminar will focus on economic approaches to studying families, integrating conceptual and methodological perspectives of family social science. We will start by tracking the economic well being of our own families across generations. Next, we will examine the research about the economic well being of U.S. families, giving special attention to family culture

and structure, socioeconomic groups, and stages of the family life cycle. Diversities in families will be examined, as well as the interface of public policies and family economic well-being.

FSOS 8007 Ethical Issues and Moral Dilemmas in Family Life **3 credit(s);**

Instructor: Rettig PhD, Kathryn K. D.

Description: This is a multi-disciplinary, trans-disciplinary course focusing on normative theories that take a value stance and how these theories are useful for interpretive science and critical science applications. Among the disciplines represented are: biology, ethics, bioethics, philosophy, behavioral economics, social psychology, education, law, and policy. The readings will involve family ethics, family law, family policy, family economics, family resource management, and family decision-making. Students will analyze the ethical issues and moral dilemmas that arise throughout the life course within diverse families. The emphasis is on family decision situations (ethical issues) that are moral dilemmas and the valuing processes during problem-solving (moral reasoning).

Style: 8% Lecture, 20% Discussion, 27% Small Group Activities, 25% Student Presentation, 20% Guest Speakers.

Grading: 15% mid exam, 15% final exam, 20% reports/papers, 50% class participation.

FSOS 8013 Qualitative Family Research Methods

3 credit(s);

Instructor: Rosenblatt, Paul C

Description: Qualitative family research methods--everything from finding a research topic to interviewing, data analysis, and writing up findings. Topics include the diversity of qualitative research approaches and standards, dealing with the politics of doing qualitative research in situations where that kind of research might not be valued or understood, research ethics, the special challenges of interviewing couples and families and analyzing data from those interviews, the nature of knowledge in qualitative research, researching family content available on the worldwide web, research design, credibility and validity issues in qualitative research, different approaches to interviewing well, issues in transcribing interview data, various conceptual systems from qualitative research and their implications for all aspects of the research and writing process, ethnographic research, feminist perspectives, critical theory perspectives, data analytic strategies, writing strategies, and more.

Style: 30% Lecture, 5% Film/Video, 50% Discussion, 15% Small Group Activities.

Grading: 33% final exam, 33% reports/papers, 33% quizzes.

FSOS 8014 Quantitative Family Research Methods II

3 credit(s); prereq [[5014 or equiv], [8001 or equiv], two stat courses] or instr consent ;

Instructor: Rueter, Martha A

Description: This course is designed to prepare you to become an independent quantitative family researcher. It is assumed that students taking this course have a solid foundational knowledge of quantitative research methods. In this course, we will build on your knowledge of quantitative methods to help you develop the additional skills and knowledge necessary to design, fund, and properly manage your own family research projects. One of the vehicles for learning is the preparation of a National Institutes of Health R01 grant application. This application covers each component of a well designed research study. Properly completing the application provides an excellent opportunity to directly apply the full range of skills needed to become a family researcher.

Style: 30% Lecture, 25% Discussion, 20% Small Group Activities, 10% Student Presentation, 5% Guest Speakers, 10% Web Based.

Grading: 80% reports/papers, 20% in-class presentation.

FSOS 8031 Family of Origin

S-N only, 3 credit(s); prereq Preference given to marriage and fam therapy students;

Instructor: Goodman, William Joseph

Description: COURSE DESCRIPTION This course provides an in-depth study of each student's families-of-origin in a process

orientated setting of fellow students and a clinical, family therapy supervisor. Experienced in a seminar format, this course is primarily designed to offer students with a unique opportunity to explore, study, and understand their own families of origin over four generations. Few opportunities exist for an extensive examination of families of origin by family professionals in training with a focus on professional applicability. The intent of this course is to provide an environment conducive to such exploration. **COURSE OBJECTIVES** 1. Identify personal assumptions about families based on personal families of origin and how these interface with professional roles as a marriage and families therapist, families life educator, families researcher, or other families service professional. 2. Utilize published and personal resources pertaining to families of origin therapy, use-of-self in therapy, and genograms in the practice of couple and families therapy and family related careers. 3. Identify and understand structures and dynamics of families of origin, covert and overt rules, covert and overt roles, multiple myths, multiple and perhaps conflicting loyalties, diverse boundaries, patterns of intimate interaction, economic and political influences, and experiences of loss. 4. Appreciate the diversity of families of origin of those students utilizing genographic material different from, yet inclusive of, blood lines.

Style: 10% Lecture, 40% Discussion, 50% Student Presentation. **WORKLOAD** Presentation of Families. Each student will have an entire class session in which to present their families of origin in a PowerPoint format. The first half of the session is primarily reserved for the actual presentation of your family **Grading:** 33% special projects, 33% attendance, 34% class participation. Because of the personal nature and revelation expected in this course, the course is graded S/N. Learners are expected to attend all class meetings, interact actively with other learners, and present their project on their families of origin.

FSOS 8039 Clinical Interventions for Couples

A-F only, 3 credit(s); prereq 8032 or equiv or instr consent;
Instructor: Harris, Steven Michael
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; prereq Doctoral student in FSoS or related field;
Instructor: STAFF
Description: Directed study for a doctoral student in FSoS or related field.

FSOS 8200 Orientation for Family Social Science

S-N only, 1 credit(s); prereq instr consent ;
Instructor: McCulloch, B. Jan
Description: Orientation of new students in the graduate program in Family Social Science. In a setting of open discussion and questioning, students will obtain an introduction to the department, the field of family science, the academic setting, and roles they will play as Family Social Science Graduate Students and as family science professionals. They also participate in individual "faculty chats" with FSoS faculty and the Wednesday noon FSoS colloquium series.
Style: 40% Lecture, 30% Discussion, 30% Guest Speakers. Students also participate in "Faculty Chats" and the Wednesday noon FSoS colloquium series
Grading: This is a S/N course
Exam Format: There are no exams for this course.

FSOS 8295 Family Therapy Practicum

S-N only, 1-12 credit(s), max credits 12, 1 completion allowed; prereq Marriage and family therapy student;
Instructor: STAFF
Description: This course is designed to provide you with group supervision in addition to the supervision you receive at your clinical placement site. Bi-monthly supervision will consist of regular check-ins and case presentations as well as clinical discussions guided by a range of conceptual and theoretical frameworks, clinical models, and areas of learning specific to your developmental needs as a clinician.

FSOS 8296 Family Therapy Internship

S-N only, 1-21 credit(s), max credits 21, 1 completion allowed; prereq 8295, marriage and family therapy student;
Instructor: STAFF
Description: This course is designed to provide you with supervision during your internship experience. Frequency, orientation, and supervision structure will be determined in conjunction with your supervisor.

FSOS 8297 Supervision of Supervision

S-N only, 1-3 credit(s), max credits 12, 12 completions allowed; prereq MFT student, instr consent;
Instructor: Minor, Brier Miller
Description: This is an experiential practicum course that covers two semesters, in which students have opportunities providing clinical supervision of masters students or masters level therapists in group or individual settings. During the supervision practicum, students will engage in 18 hours (2 hours per month) of "supervision of supervision" or mentoring of their work. This meets partial requirements for becoming AAMFT Approved Supervisors.
Style: 75% Laboratory, 25% Small Group Activities. This practicum experience can be tailored to the students' needs and time constraints.
Grading: 50% attendance, 50% class participation. This is a pass/fail class that is graded on participation through supervision practicum and mentoring of that experience.

FSOS 8550 Advanced Topics in Family Social Science: Fam & Community Engagemt: Approaches & Lessons

A-F only, 3 credit(s), max credits 6, 6 completions allowed; prereq FSoS PhD student;
Instructor: Xiong PhD, Zha Blong
Description: Family and Community Engagement: Approaches and Lessons from the Field This course examines various family and community engagement approaches (i.e., citizen health care model, train-the-trainer model), projects, and current research from diverse communities and theoretical perspectives. To enhance students' understanding of the topic, the class will survey and critique the literature, learn from experts from the field, and carry out a research project to explore a specific family and/or community engagement project in details. Some travels and site visits to various projects are required for participating in this class.

FSOS 8755 Master's Paper: Plan B Project

S-N only, 1-6 credit(s), max credits 6, 1 completion allowed; prereq FSoS MA student;
Instructor: STAFF
Description: Graduate faculty work with students on research for Plan B paper.

FSOS 8794 Directed Research in Family Social Science

1-6 credit(s), max credits 12, 12 completions allowed; prereq Grad FSoS major, instr consent ;
Instructor: STAFF
Description:

Finance

3-122 Carlson School of Management

FINA 3001 Finance Fundamentals

A-F only, 3 credit(s); prereq ACCT 2050, OMS 2550; Credit will not be granted if credit has been received for: APEC 3501;
Instructor: STAFF
Description: Financial management principles. Money/capital markets, risk/return/valuation triad, capital budgeting. Capital structure, financial leverage. Cost of capital, financial performance measures, dividend policy, working capital management, international financial management/derivatives.

FINA 3001 Finance Fundamentals

A-F only, 3 credit(s); prereq ACCT 2050, OMS 2550; Credit will not be granted if credit has been received for: APEC 3501;

Instructor: Reik,John W

Description: This course is a printed distance learning section offered through Online and Distance Learning, College of Continuing Education. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. Finance 3001 is a challenging, college-level survey course. It covers a broad range of existing business finance topics. It's important for you to understand that this is not an easy course, and that it assumes you already have a respectable understanding of financial accounting concepts. If you don't particularly like the "numbers" part of business, or if you're a little rusty in accounting, then this will be a particularly challenging course for you. You may want to take some time before you begin this course to brush up on financial accounting and simple algebra. However, if you work hard and have the appropriate background, this course will give you access to a vast new world of business knowledge and will make every-day business information much more useful and worthwhile. The study notes for each lesson in this course contain my lecture notes for the classroom-based version of this course offered by the University's Carlson School of Management. You, therefore, have access to most of what I would say or do in the classroom setting for this course. However, you do not have the benefit of talking to other students or sharing in their observations and comments. Because of this, it is important for you to carefully read both the textbook and the lessons in the study guide before doing the lesson assignments or taking the course exams. Only then can your learning experience be equivalent to attending a classroom version of this course. Please be aware of this as you progress through this course.

Style: This is a printed (correspondence)distance learning section.

Grading: 40% mid exam, 60% final exam. --Midcourse exam covers lessons 1 through 5 --Final exam covers lessons 1 through 5 and 7 through 11

Exam Format: Supervised, in-person (not online) exams.

FINA 4121 Financial Markets and Interest Rates

A-F only, 2 credit(s); prereq 3001;

Instructor: STAFF

Description: Basic framework for valuing fixed income securities. Term structure on interest rates, forward rates, principles of fixed-income valuation. Surveys treasury, corporate, municipal, securitization markets.

FINA 4122 Banking Institutions

A-F only, 2 credit(s); prereq 4121;

Instructor: Dahl,David

Description: This course develops an understanding of the management of banking institutions. The course features a combination of theory and practice in banking. Specific topics include asset management, liability management, capital management, and public policy issues in banking.

Style: 70% Lecture, 5% Film/Video, 10% Discussion, 5% Guest Speakers. In class problems

Grading: 50% final exam, 20% special projects, 30% other evaluation. Problem Sets

Exam Format: Multiple choice, Short Essays and Problems

FINA 4221 Principles of Corporate Finance

A-F only, 2 credit(s); prereq 3001, CSOM [jr or sr];

Instructor: Wang,Tracy Yue

Description: Student may contact the instructor or department for information.

FINA 4321 Portfolio Management and Performance Evaluation

A-F only, 2 credit(s); prereq 3001;

Instructor: STAFF

Description: Introduces investment environment and concepts used to manage security portfolios. Portfolio/security risk/return tradeoffs, portfolio diversification, asset allocation, active portfolio management versus indexed portfolios, portfolio performance evaluation.

FINA 4329 Security Analysis Capstone

A-F only, 2 credit(s); prereq [4221 or 4241], 4422, [ACCT 5100 or ACCT 5101];

Instructor: Legg,Thomas D

Description: Student may contact the instructor or department for information.

FINA 4422 Financial Modeling

A-F only, 2 credit(s); prereq 4221, [ACCT 5100 or ACCT 5101];

Instructor: Legg,Thomas D

Description: Student may contact the instructor or department for information.

FINA 4621 The Global Economy (Macro)

A-F only, 2 credit(s); prereq 3001;

Instructor: Bazdresch,Santiago

Description: Student may contact the instructor or department for information.

FINA 4622 International Finance

A-F only, 2 credit(s); prereq 4121, 4221 or 4241, 4621, CSOM [jr or sr] credit will not be granted if credit already received for: Fina 4641;

Instructor: Singh,Raj

Description: Student may contact the instructor or department for information.

FINA 6121 Debt Markets, Interest Rates, and Hedging

A-F only, 2 credit(s); prereq MBA 6230, MBA student;

Instructor: STAFF

Description: Bond valuation: yield conventions, spot/forward rates, term structure, binomial pricing, static/option-adjusted spread. Duration: PVBP, Macauley/modified/effective duration, convexity. Portfolio management, hedging: dedicated, immunization, horizon matching, contingent, indexing, portfolio insurance, hedging. Treasury market: role of Fed, auctions, primary dealers, market conventions, bills, notes, bonds, strips, repos. Fixed income markets: agency, corporate, private placement, securitization, municipal.

FINA 6241 Corporate Finance Analysis and Decisions

A-F only, 4 credit(s); prereq MBA 6230, MBA student;

Instructor: STAFF

Description: Theoretical/applied understanding of corporate financial decisions. Adjusted present value, economic value added options. Impact of financing decisions on real asset valuation, managerial incentives, corporate strategy.

FINA 6242 Advanced Corporate Finance Analysis and Decisions

A-F only, 4 credit(s); prereq 6241, MBA student;

Instructor: STAFF

Description: Theory/practice of efficiently managing working capital, fixed assets. Emphasizes mergers/acquisitions, corporate restructuring, real options. Use of derivatives as financing tools, in deal structure.

FINA 6321 Portfolio Analysis and Management

A-F only, 2 credit(s); prereq MBA 6120, MBA 6230, MBA student;

Instructor: STAFF

Description: Introduces analytical concepts used to manage security portfolios from perspective of an institutional investor. Market microstructure. Margin purchasing, short selling. Portfolio risk management, risk/return tradeoffs, strategic/tactical asset allocation, active versus passive management. Portfolio revision, performance evaluation.

FINA 6323 Advanced Security Analysis

A-F only, 2 credit(s); prereq 6322, MBA student;

Instructor: STAFF

Description: Analytical/communication skills for equity security valuation. How companies improve performance, convince investors that improvements are sustainable. How rules for high-tech/internet stock valuation differ from rules for traditional

equity security valuation.

for information.

FINA 6324 Securitization Markets

A-F only, 2 credit(s); prereq 6121, MBA student;

Instructor: Nelson,Rick

Description: Student may contact the instructor or department for information.

FINA 6341 World Economy

A-F only, 4 credit(s); prereq MBA 6230, MBA student;

Instructor: STAFF

Description: Tools to predict/understand ramifications of major economic events. Financial crises. Changes in monetary, fiscal, financial policies. Strategies for promoting long-run economic growth. Examples from U.S., Europe, Japan, developing countries.

FINA 6801 Finance Independent Study

1-6 credit(s), max credits 6, 1 completion allowed; prereq MBA student;

Instructor: STAFF

Description: Independent Study

FINA 8802 Theory of Capital Markets I: Discrete Time

2 credit(s); prereq [Econ 8101, Econ 8102, business admin PhD student] or instr consent ;

Instructor: STAFF

Description: Modern asset pricing theory. Static/discrete time frameworks. Fundamental asset pricing equation. Classical finance models: CAPM, consumption-based CAPM,APT. Complete markets, representative agent, Pareto optimality. Challenges to theories. Approaches such as habit formation, heterogeneous agents (incomplete markets) model.

FINA 8892 Independent Study in Finance

1-8 credit(s), max credits 16, 16 completions allowed; prereq Business admin PhD student or instr consent;

Instructor: STAFF

Description: Problems or developments of special interest to the student.

FINA 8894 Directed Research in Finance

1-8 credit(s), max credits 16, 16 completions allowed; prereq Business admin PhD student specializing in finance or instr consent;

Instructor: STAFF

Description: Individualized directed research on a project of interest to the student, approved and advised by faculty.

Financial Mathematics

127 Vincent Hall

FM 5001 Preparation for Financial Mathematics I

3 credit(s); prereq Grad MFM major or MFM program director approval;

Instructor: Adams,Scot Robert

Description: Student may contact the instructor or department for information.

FM 5011 Mathematical Background for Finance I

4 credit(s); prereq [5001, 5002] with grade of at least B or [MFM program director approval, grad MFM major];

Instructor: Adams,Scot Robert

Description: Student may contact the instructor or department for information.

FM 5021 Mathematical Theory Applied to Finance I

4 credit(s); prereq [5011 or Concurrent registration is required (or allowed) in 5011], grad MFM major, program director approval;

Instructor: Tolmasky,Carlos

Description: Student may contact the instructor or department

FM 5031 A Practitioner's Course in Finance I

4 credit(s); prereq [5021 or Concurrent registration is required (or allowed) in 5021], grad MFM major, program director approval;

Instructor: Bemis,Christopher Joseph

Description: Student may contact the instructor or department for information.

FM 5091 Computation, Algorithms, and Coding in Finance I

3 credit(s); prereq Grad MFM major, program director approval;

Instructor: Prouty,Christopher William

Description: Student may contact the instructor or department for information.

Finnish

205 Folwell Hall

FIN 1001 Beginning Finnish

5 credit(s); Credit will not be granted if credit has been received for: FIN 4001;

Instructor: Karvonen,Daniel

Description: Come study the language of sauna, Sibelius, and Nokia! Finnish is unrelated to most languages in Europe and may seem a bit exotic at first. There are no words for "the" or "a," and there's only a single pronoun for both "he" and "she." But you can learn to spell Finnish in just a few minutes, since words in Finnish are written pretty much like they are pronounced.

Much of class time will focus on interactive communicative activities, with students working in pairs or in groups. You'll also learn about Finnish culture via video clips of real-life situations in Finland and other authentic cultural materials such as songs and movies. The main textbook for the course is "Supisuomea" (chapters 1-5), which is accompanied by CDs and a video, which will be used in class. You'll also learn both the written and spoken varieties of Finnish, which are quite different from one another. Qualified students may register for this course under the 4001 designator for 2 credits (and reduced tuition).

Style: 25% Lecture, 5% Film/Video, 70% Small Group Activities. 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: essay, short answer, matching

FIN 1003 Intermediate Finnish

5 credit(s); prereq 1002; Credit will not be granted if credit has been received for: FIN 4003;

Instructor: Karvonen,Daniel

Description: This is an intermediate course that requires that you've taken a year of college-level Finnish or have equivalent knowledge of the language. The main textbook for the course is "Elämän suola: Suomen kielen alkeita 2" (chapters 21-30), which chronicles the humorous adventures of a group of friends and focuses on exposing students to spoken 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. Qualified students may register for this course under the 4003 designator for 2 credits (and reduced tuition).

Style: 20% Lecture, 80% Small Group Activities. interactive exercises

Grading: 10% final exam, 18% reports/papers, 28% quizzes, 5% in-class presentation, 29% class participation, 10% other evaluation. oral interviews

Exam Format: short answer, essay

FIN 3011 Advanced Finnish

3 credit(s); prereq 1004 or 4004;

Instructor: Karvonen, Daniel

Description: This course is designed to refine advanced students' skills in oral and written expression in Finnish. Advanced grammatical constructions characteristic of written Finnish will be explored via newspaper articles and short stories, with time spent analyzing the constructions together in class. Each student will also get the chance to provide an oral news summary of some current event in Finland every other week. The majority of class time will center around class discussion, giving students plenty of speaking practice. There will be three essays, three take-home exams, and a final class presentation on some aspect relating to Finnish culture.

Style: 10% Lecture, 90% Discussion.

Grading: 24% reports/papers, 30% quizzes, 6% in-class presentation, 28% class participation, 12% other evaluation. oral news summaries

Exam Format: short answer, essay

FIN 4001 Beginning Finnish

2 credit(s); prereq 1004 in another language or passing score on LPE or grad student; Credit will not be granted if credit has been received for: FIN 1001;

Instructor: Karvonen, Daniel

Description: Come study the language of sauna, Sibelius, and Nokia! Finnish is unrelated to most languages in Europe and may seem a bit exotic at first. There are no words for "the" or "a," and there's only a single pronoun for both "he" and "she." But you can learn to spell Finnish in just a few minutes, since words in Finnish are written pretty much like they are pronounced. Much of class time will focus on interactive communicative activities, with students working in pairs or in groups. You'll also learn about Finnish culture via video clips of real-life situations in Finland and other authentic cultural materials such as songs and movies. The main textbook for the course is "Supisuomea" (chapters 1-5), which is accompanied by CDs and a video, which will be used in class. You'll also learn both the written and spoken varieties of Finnish, which are quite different from one another. Qualified students may register for this course under the 4001 designator for 2 credits (and reduced tuition).

Style: 25% Lecture, 5% Film/Video, 70% Small Group Activities. 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: essay, short answer, matching

FIN 4003 Intermediate Finnish

2 credit(s); prereq 1004 in another language or passing score on LPE or grad student; Credit will not be granted if credit has been received for: FIN 1003;

Instructor: Karvonen, Daniel

Description: This is an intermediate course that requires that you've taken a year of college-level Finnish or have equivalent knowledge of the language. The main textbook for the course is "Elaman suola: Suomen kielen alkeita 2" (chapters 21-30), which chronicles the humorous adventures of a group of friends and focuses on exposing students to spoken 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. Qualified students may register for this course under the 4003 designator for 2 credits (and reduced tuition).

Style: 20% Lecture, 80% Small Group Activities. interactive exercises

Grading: 10% final exam, 18% reports/papers, 28% quizzes, 5% in-class presentation, 29% class participation, 10% other evaluation. oral interviews

Exam Format: short answer, essay

FW 1001 Orientation in Fisheries, Wildlife, and Conservation Biology

A-F only, 1 credit(s);

Instructor: Cuthbert, Francesca J

Description: Student may contact the instructor or department for information.

FW 2001 Introduction to Fisheries, Wildlife, and Conservation Biology

3 credit(s); prereq BIOL 1001 or BIOL 1009; Meets CLE req of Environment Theme;

Instructor: Perry, Jim A

Description: Humans rely on fish and wildlife resources to support a wide range of values. As we make decisions about management of landscapes, we are making decisions about conservation, about the future of our fish and wildlife. This class helps students become more informed citizens by learning about fish, wildlife and other forms of biodiversity, including single species, populations, ecosystem, and landscape approaches. The class is experiential and highly interactive, using decision-case studies to explore current issues.

Style: 30% Lecture, 50% Discussion, 20% Student Presentation.

Grading: 25% mid exam, 25% final exam, 25% additional semester exams, 15% in-class presentation, 10% class participation.

FW 4001 Biometry

A-F only, 4 credit(s); prereq Math 1031;

Instructor: Cohen, Yosef

Description: Student may contact the instructor or department for information.

Style: 30% Lecture, 30% Discussion, 40% Laboratory.

Grading: 15% mid exam, 20% final exam, 20% reports/papers, 10% special projects, 10% quizzes, 10% class participation, 15% problem solving.

Exam Format: Essay

FW 4291 Independent Study: Fisheries

1-5 credit(s), max credits 15, 3 completions allowed; prereq instr consent ;

Instructor: STAFF

Description: Individual field, library, and laboratory research in fisheries. Primarily for majors. Students work on special projects. Individual field, library, and lab research in fisheries biology.

Style: special projects and individual directed study

Grading: 100% reports/papers. 100% written reports/papers; may have occasional exceptions

FW 4391 Independent Study: Wildlife

1-5 credit(s), max credits 5, 1 completion allowed; prereq instr consent ;

Instructor: STAFF

Description: Individual field, library, and laboratory research in wildlife. Primarily for majors. Students work on special projects. Individual field, library, and lab research in fisheries biology.

Style: special projects and individual directed study; visitation to field sites if appropriate

Grading: 100% reports/papers.

FW 4801H Honors Research

A-F only, 2 credit(s); prereq FW upper div honors, instr consent ;

Instructor: STAFF

Description: Independent research project supervised by faculty member.

FW 4802H Honors Research

A-F only, 2 credit(s); prereq FW upper div honors, instr consent ;

Instructor: STAFF

Description: Completion of honors thesis. Oral report.

FW 5392 Special Lectures: Wildlife: Advanced Topics in Avian Ecology

3 credit(s), max credits 15, 3 completions allowed; prereq Grad student or instr consent ; Credit will not be granted if

Fisheries and Wildlife
200 Hodson Hall

credit has been received for: FW 4392;

Instructor: Arnold,Todd W.

Description: Student may contact the instructor or department for information.

FW 5603W Habitats and Regulation of Wildlife

A-F only, 3 credit(s); prereq Biol 3407; Meets CLE req of Environment Theme; meets CLE req of Writing Intensive;

Instructor: Cutter,Peter Guild

Description: Student may contact the instructor or department for information.

FW 8200 Seminar

S-N only, 1-4 credit(s), max credits 8, 4 completions allowed;

Instructor: Newman,Raymond M

Description: Student may contact the instructor or department for information.

FW 8394 Research in Fisheries

1-4 credit(s), max credits 4, 1 completion allowed;

Instructor: Lang,Jeffrey W.

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: Swain,Edward B

Description: Student may contact the instructor or department for information.

FW 8394 Research in Fisheries

1-4 credit(s), max credits 4, 1 completion allowed;

Instructor: Nelson,Kristen C

Description: Student may contact the instructor or department for information.

FW 8394 Research in Fisheries

1-4 credit(s), max credits 4, 1 completion allowed;

Instructor: Newman,Raymond M

Description: Student may contact the instructor or department for information.

FW 8394 Research in Fisheries

1-4 credit(s), max credits 4, 1 completion allowed;

Instructor: Pereira PhD,Donald L.

Description: Student may contact the instructor or department for information.

FW 8394 Research in Fisheries

1-4 credit(s), max credits 4, 1 completion allowed;

Instructor: Spangler,George R

Description: Student may contact the instructor or department for information.

FW 8394 Research in Fisheries

1-4 credit(s), max credits 4, 1 completion allowed;

Instructor: Perry,Jim A

Description: Student may contact the instructor or department for information.

FW 8394 Research in Fisheries

1-4 credit(s), max credits 4, 1 completion allowed;

Instructor: Kapuscinski PhD,Anne R

Description: Student may contact the instructor or department for information.

FW 8394 Research in Fisheries

1-4 credit(s), max credits 4, 1 completion allowed;

Instructor: Cohen,Yosef

Description: Student may contact the instructor or department for information.

FW 8394 Research in Fisheries

1-4 credit(s), max credits 4, 1 completion allowed;

Instructor: Adelman,Ira R

Description: Student may contact the instructor or department for information.

FW 8394 Research in Fisheries

1-4 credit(s), max credits 4, 1 completion allowed;

Instructor: Pastor,John Joseph

Description: Student may contact the instructor or department for information.

FW 8394 Research in Fisheries

1-4 credit(s), max credits 4, 1 completion allowed;

Instructor: Sorensen,Peter William

Description: Student may contact the instructor or department for information.

FW 8394 Research in Fisheries

1-4 credit(s), max credits 4, 1 completion allowed;

Instructor: Anderson,Charles S

Description: Student may contact the instructor or department for information.

FW 8394 Research in Fisheries

1-4 credit(s), max credits 4, 1 completion allowed;

Instructor: Hornbach,Daniel J

Description: Student may contact the instructor or department for information.

FW 8394 Research in Fisheries

1-4 credit(s), max credits 4, 1 completion allowed;

Instructor: Vondracek,Bruce

Description: Student may contact the instructor or department for information.

FW 8394 Research in Fisheries

1-4 credit(s), max credits 4, 1 completion allowed;

Instructor: Richards,Carl

Description: Student may contact the instructor or department for information.

FW 8394 Research in Fisheries

1-4 credit(s), max credits 4, 1 completion allowed;

Instructor: Simons,Andrew M.

Description: Student may contact the instructor or department for information.

FW 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: Ankley,Gerald T

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: Strong,Ellen E

Description: Student may contact the instructor or department for information.

FW 8452 Conservation Biology

A-F only, 3 credit(s);

Instructor: Smith,James L David

Description: Student may contact the instructor or department for information.

FW 8465 Fish Habitats and Restoration

3 credit(s); prereq Intro ecology course or instr consent;

Instructor: Vondracek,Bruce

Description: A diversity of current topics in fish ecology with a focus on fish-habitat and fish-fish interactions in lakes and streams with an emphasis on north temperate systems to

provide an understanding of ecological mechanisms in aquatic systems. The course builds on the examination of fish-habitat interactions to stream rehabilitation with the watershed as the focus. A watershed perspective also provides for an introduction of natural resource management in a socio-economic context.

Style: 60% Lecture, 40% Discussion. Discussion includes student presentations that summarize readings

Grading: 40% reports/papers, 30% written homework, 15% in-class presentation, 15% class participation.

FW 8494 Research in Wildlife

1-4 credit(s), max credits 4, 1 completion allowed; prereq instr consent;

Instructor: Cuthbert, Francesca J

Description: Student may contact the instructor or department for information.

FW 8494 Research in Wildlife

1-4 credit(s), max credits 4, 1 completion allowed; prereq instr consent;

Instructor: Nelson, Kristen C

Description: Student may contact the instructor or department for information.

FW 8494 Research in Wildlife

1-4 credit(s), max credits 4, 1 completion allowed; prereq instr consent;

Instructor: Arnold, Todd W.

Description: Student may contact the instructor or department for information.

FW 8494 Research in Wildlife

1-4 credit(s), max credits 4, 1 completion allowed; prereq instr consent;

Instructor: Perry, Jim A

Description: Student may contact the instructor or department for information.

FW 8494 Research in Wildlife

1-4 credit(s), max credits 4, 1 completion allowed; prereq instr consent;

Instructor: Cohen, Yosef

Description: Student may contact the instructor or department for information.

FW 8494 Research in Wildlife

1-4 credit(s), max credits 4, 1 completion allowed; prereq instr consent;

Instructor: Fulton, David C

Description: Student may contact the instructor or department for information.

FW 8494 Research in Wildlife

1-4 credit(s), max credits 4, 1 completion allowed; prereq instr consent;

Instructor: Gutierrez, Ralph J

Description: Student may contact the instructor or department for information.

FW 8494 Research in Wildlife

1-4 credit(s), max credits 4, 1 completion allowed; prereq instr consent;

Instructor: Blair, Robert B

Description: Student may contact the instructor or department for information.

Food Science and Nutrition

225 Food Science & Nutrition

FSCN 1012 Sports Nutrition

2 credit(s);

Instructor: Brady, Linda J

Description: This course is completely online and addresses: 1. physiological function and metabolic fate of nutrients ingested by active individuals to improve athletic performance and maintain weight; 2. impact on physiology of ergogenic aids and dietary supplements. An online class orientation via UM Connect will be available on the class website, as well as the syllabus and explanation of website function. Weekly multiple choice quizzes on one chapter are completed online. Short answer critical thinking questions are submitted via the class website each week also. Student materials available online include study guide, power point presentation, and UM Connect presentation for each chapter. Students with some biology or physiology background will have some advantage, as nutrition is multi-disciplinary. This course functions best for students who can manage their time effectively and are comfortable with a mix of multiple choice quizzes and "thought" questions that are more open ended; it does not function well as a 2 credit "add on" to an already busy schedule. We have assignments due the first week, so students who add the class later have some disadvantage.

Style: 100% Web Based. Web based class

Grading: 50% quizzes, 50% reflection paper. short answer critical thinking questions

Exam Format: Quiz format is multiple choice

FSCN 1013 Dietary Supplements: scientific, regulatory, and cultural aspects

3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; Instructor: Brady, Linda J

Description: The course will cover: 1) Use of dietary supplements in the U.S.; how U.S. public demand drives industry and government. 2) The development and implementation of the law--Dietary Supplements Health and Education Act. 3) DSHEA and "safety testing," and risk assessment: How much safety data is needed before marketing? 4) Ethics of marketing. 5) FTC responsibilities and the ethics of advertising. 6) Other cultures as sources of supplements; transference of use between cultures. 7) Issues and ethics of intellectual property rights of indigenous cultures. 8) Rational use of dietary supplements for health and sports performance; ethical decisions in use for athletic performance. 9) Use of supplements for weight loss. A UM Connect audio video orientation is provided to explain the syllabus and assignment submission and academic integrity; registered students will receive information on orientation about a week before classes start. For each weekly unit, an online UM Connect presentation of the week's power point is also available to complement weekly readings. Students critically evaluate information on supplements and submit weekly homework and critical thinking questions online via the class website; these are graded online and returned. This course functions best for students who can manage their time effectively and are comfortable with a mix of factual questions and "thought" questions (critical thinking) that are more open ended and require students to move beyond the readings into higher level thinking. There is no textbook; readings are online.

Style: 100% Web Based. totally web based

Grading: 50% written homework, 50% reflection paper. homework and critical thinking (reflection) questions

Exam Format: Homework and critical thinking are in multiple parts, with short answers of a paragraph or two for each part

FSCN 1021 Introductory Microbiology

4 credit(s); Meets CLE req of Biological Sciences/Lab Core; Instructor: O'Sullivan, Daniel J

Description: This course is intended primarily for undergraduates who require a basic knowledge of microbiology and how it impacts their everyday life. It will serve as a broad introduction to the diverse world of bacteria, fungi, and viruses; their role as agents of human diseases (from flesh eating bacteria to AIDS) and how humans fight back; their roles in food spoilage, food borne diseases and how to control them; their beneficial roles in food preservation, health promotion (probiotics), preventing plant diseases, food/drug production (biotechnology), cleaning up oil spills (bioremediation). The course will also introduce the student to the basics of genetic engineering and its present and future potential roles in food, agriculture and medicine.

Style: 60% Lecture, 40% Laboratory.

Grading: 35% mid exam, 30% final exam, 10% quizzes, 25% laboratory evaluation.

Exam Format: multiple choice and short answer

FSCN 1102 Food: Safety, Risks, and Technology

3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme;

Instructor: Diez-Gonzalez, Francisco

Description: Introduction to the inherent risks and safety of the food supply and the use of public policy, and food technology to reduce those risks. The course will survey microbiological, chemical and environmental hazards, government and industry controls used to insure food safety including the new U.S. Food Safety Initiative, and public perception of those risks. The course will emphasize government regulations with respect to adulteration, food safety and misbranding. It will overview the biological, microbiological, physical and chemical deterioration of foods and will describe some of the technologies to control food spoilage. Thermal processing and irradiation as examples of the technologies used in food processing to reduce risk and ensure a safe food supply. This course will focus on current food safety issues and the magnitude of the overall food safety situation. The student will learn about timely issues such as genetically modified foods, food allergies, prion diseases and approaches to biosecurity. This course satisfies the CLE Citizenship and Public Ethics theme and emphasizes public policy making, critical thinking skills and internet use. The course URL is <https://vista.umn.edu/webct>.

Style: 60% Lecture, 20% Discussion.

Grading: 38% reports/papers, 12% class participation, 50% other evaluation. exams

Exam Format: Short answers and essays

FSCN 1112 Principles of Nutrition

3 credit(s); prereq High school [biology, chemistry]; Meets CLE req of Environment Theme;

Instructor: Brady, Linda J

Description: This course is for all levels of students and will address: 1. essential nutrients needed from the diet; 2. major functions of nutrients and physiological changes with deficiency or excess; 3. digestion, absorption, and metabolism of nutrients; 4. eating programs; 5. scientific method and nutrition; 6. life cycle issues; 7. food safety issues; 8. issues of food and the environment. This course meets the CLE theme of ENVIRONMENT. This class is web enhanced. Much of material covered in class is available in the text and power points posted on the class website, and UM Connect presentations of the power points, but additional information, examples, and current events will be given in class. One to two questions on quizzes (out of 20 total) will be from material covered only in class. Students will be evaluated by weekly online chapter quizzes, a diet analysis and critical thinking questions about their diet analysis, and a final exam covering the environmental theme only. Prerequisite is high school biology, but college biology and chemistry are helpful, since nutrition is a science that is based on biology, physiology, and biochemistry, as well as more social aspects. Student evaluations are routinely around 5 to 6, but some students indicate that they find the material challenging as nutrition covers so many topics.

Style: 90% Lecture, 10% Small Group Activities. small group discussion

Grading: 25% final exam, 50% quizzes, 25% other evaluation. Diet analysis and associated questions

Exam Format: multiple choice

FSCN 1112 Principles of Nutrition

3 credit(s); prereq High school [biology, chemistry]; Meets CLE req of Environment Theme;

Instructor: Willis, Holly Jo

Description: Student may contact the instructor or department for information.

FSCN 3102 Introduction to Food Science

3 credit(s); prereq Chem 1022;

Instructor: Vickers, Zata M

Description: Course Description: This course examines why

foods change when you heat them, freeze them, mix them together and bake them, etc. Students work in small groups to prepare several different versions of common foods and explain the chemistry responsible for the differences they observe among them. Intended For: Students majoring in Nutrition or Food Science and others interested in the science of food preparation. Student Performance Objectives: Explain the functions of major food ingredients and preparation steps in a variety of food systems. Identify changes in food resulting from different preparation methods and explain these changes based on knowledge of the physical and chemical changes. By the end of the course students will be able to change recipes to accommodate a variety of dietary restrictions. Laboratory notebooks, quizzes, exams and the final exam provide the assessment for these outcomes. Evaluate the quality of food products using sensory descriptions and objective methods of analysis. Laboratory notebooks provide the assessment for this. Produce and explain the chemical or physical basis for differences in food quality resulting from variations in preparation and/or ingredients. Laboratory notebooks, quizzes and exams provide the assessment for this.

Style: 40% Lecture, 10% Discussion, 50% Laboratory.

Grading: 40% mid exam, 20% final exam, 12% quizzes, 10% class participation, 10% laboratory evaluation.

Exam Format: Writing explanations, definitions, descriptions

FSCN 3612 Life Cycle Nutrition

3 credit(s); prereq 1112, Chem 1022;

Instructor: Slavin, Joanne Louise

Description: Course covers nutritional changes through the life cycle. Emphasis is on pregnancy, lactation, children, teens and the elderly. Text is "Lifecycle Nutrition." Students complete a Nutrition Makeover as an assignment. Exams are objective. Course is designed for undergraduates in nutrition.

Style: 75% Lecture, 25% Discussion.

Grading: 90% mid exam, 10% reflection paper. nutrition makeover

Exam Format: Multiple choice

FSCN 3614 Nutrition Education and Counseling

3 credit(s); prereq 1112;

Instructor: Peterson, Sabrina

Description: Student may contact the instructor or department for information.

FSCN 3731 Food Service Operations Management Laboratory

A-F only, 2 credit(s); prereq [3102 or concurrent enrollment 3102], [3732 or concurrent enrollment 3732];

Instructor: Burgess-Champoux PhD, Teri L

Description: Student may contact the instructor or department for information.

FSCN 3732 Food Service Operations Management

A-F only, 3 credit(s); prereq 3102 or concurrent enrollment in 3102;

Instructor: Burgess-Champoux PhD, Teri L

Description: Student may contact the instructor or department for information.

FSCN 4096 Professional Experience Program: Internship

A-F only, 1-4 credit(s), max credits 24, 6 completions allowed; prereq FSCn undergrads, instr consent ; UC only;

Instructor: Smith, David Eugene

Description: Student may contact the instructor or department for information.

FSCN 4112 Food Chemistry and Functional Foods

3 credit(s); prereq 3102, BIOC 3021;

Instructor: Bunzel, Mirko

Description: Student may contact the instructor or department for information.

FSCN 4122 Food Fermentations and Biotechnology

2 credit(s); prereq [MICB 3301, BIOL 4003] or instr consent ;

Instructor: O'Sullivan, Daniel J

Description: This course covers the major food fermentations

important for today's food industry, with a particular focus on the microbiological components. These food fermentations cover all the major commodity food groups of dairy, cereal, meat, vegetables and fruits. The different microbial cultures used in foods, including probiotic cultures, will be analyzed focusing on the current and future trend in the culture industry. The student will also be introduced to the impact of biotechnology on food production, from classical to modern day food biotechnology, and beyond. Modern day genetic tools, as applied to plants, animals and microbes, will be examined. A major focus will be on the improvement of microbes used in food production by modern biotechnological approaches.

Style: 80% Lecture, 17% Laboratory, 3% Small Group Activities.
Grading: 40% mid exam, 40% final exam, 15% quizzes, 5% laboratory evaluation.

FSCN 4131 Food Quality

3 credit(s); prereq 1102, jr;

Instructor: Schoenfuss PhD, Tonya

Description: Management systems in processing and distribution of foods that ensure food quality, safety and compliance with food laws & regulations. Quality management, HACCP, regulations, audits, plant/equipment design for sanitation, specifications, recalls and control systems.

FSCN 4291 Independent Study

1-4 credit(s), max credits 4, 1 completion allowed; prereq Undergrads, instr consent;

Instructor: STAFF

Description: Independent Study is for one-to-one faculty student work agreed upon food science related topics. Prior registration approval is necessary and can be obtained by contacting Sue P. at 624-6753. Contracts are used to outline the proposed projects.

FSCN 4312W Food Analysis

4 credit(s); prereq 4112, STAT 3011; Meets CLE req of Writing Intensive;

Instructor: Ismail, Baraem

Description: Student may contact the instructor or department for information.

FSCN 4343 Processing of Dairy Products

4 credit(s); prereq FSCN 4112, FSCN 4122, FSCN 4331;

Instructor: Smith, David Eugene

Description: Student may contact the instructor or department for information.

FSCN 4345 Flavor Technology

3 credit(s); prereq 4112, 4121, 4331;

Instructor: Reineccius, Gary A

Description: Student may contact the instructor or department for information.

FSCN 4349 Food Science Capstone

A-F only, 1-2 credit(s), max credits 2, 1 completion allowed; prereq Concurrent enrollment in another [4xxx or 5xxx]

FSCN course, food science major, sr;

Instructor: Smith, David Eugene

Description: Student may contact the instructor or department for information.

FSCN 4612 Human Nutrition

3 credit(s); prereq 1112, Chem 1022, Phsl 3051;

Instructor: Slavin, Joanne Louise

Description: This course covers how we learn about normal human nutrition. We discuss nutrient requirements and how these are determined. Emphasis is on the physiological basis for nutrition. Digestion and absorption of food are emphasized. Sports nutrition and energy balance are also covered extensively. Students will review a nutrition topic and write a research proposal. The class is designed for undergraduates in nutrition who have completed an introductory nutrition class.

Style: 75% Lecture, 25% Discussion.

Grading: 50% mid exam, 20% final exam, 20% reports/papers, 10% class participation.

Exam Format: multiple choice, true/false

FSCN 4621W Nutrition and Metabolism

4 credit(s); prereq 4612, BioC 3021, Phsl 3051; Meets CLE req of Writing Intensive;

Instructor: Chen, Xiaoli

Description: This course is designed to provide students with an understanding of carbohydrate, lipid and protein metabolism.

Emphases are on main metabolic pathways of three macronutrients and their interrelationship. Main concepts to be introduced include anabolic, catabolic, and amphibolic metabolism and regulation of carbohydrate, lipid and protein.

These concepts will assure an understanding of how macronutrient metabolism is regulated to fulfill energy needs for maintaining the body's metabolic and physiological functions. A variety of activities such as small and large group discussions, quizzes, written reports or papers, etc. will be used to prepare students to evaluate scientific discoveries and developments that affect their lives, and formulate opinions about related issues.

Style: 90% Lecture, 10% Discussion.

Grading: 24% mid exam, 20% final exam, 20% reports/papers, 14% quizzes, 16% other evaluation, homework

Exam Format: multiple choice and short answer

FSCN 4664 Senior Capstone: Becoming a Registered Dietitian

S-N only, 1 credit(s); prereq [[4665 or Concurrent registration is required (or allowed) in 4665],

Nutrition/dietetics subplan of nutrition major] or instr consent ;

Instructor: Earthman, Carrie

Description: Student may contact the instructor or department for information.

FSCN 4665 Medical Nutrition Therapy I

A-F only, 3 credit(s); prereq 4612, Phsl 3051, BioC 3021;

Instructor: Earthman, Carrie

Description: Nutritional assessment and support; fluid and electrolyte balance; medication/diet interactions. Nutritional intervention in hypermetabolic conditions, disorders of the gastrointestinal system, and in cancer and AIDS. Interventions for pediatric and adult patients/clients.

Style: 55% Lecture, 15% Discussion. Individual and Group Case Work

FSCN 5601 Management of Eating Disorders

3 credit(s); prereq [Sr or grad student] in health related program or instr consent ;

Instructor: Croll, Jillian Kathleen

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 typically 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; prereq instr consent;

Instructor: Gallaher, Daniel David

Description: Student may contact the instructor or department for information.

FSCN 8330 Research Topics

1 credit(s), max credits 6, 6 completions allowed;

Instructor: Cariad-Barrett, Anna

Description: Student may contact the instructor or department for information.

FSCN 8334 Reaction Kinetics of Food Deterioration

2 credit(s); prereq Chem 3501;

Instructor: Labuza PhD, Theodore Peter

Description: Student may contact the instructor or department for information.

FSCN 8391 Independent Study: Food Science

1-4 credit(s), max credits 6, 6 completions allowed; prereq instr consent ;

Instructor: Cariad-Barrett, Anna

Description: Student may contact the instructor or department for information.

Forest Resources

115 Green Hall

FR 1001 Orientation and Information Systems

A-F only, 1 credit(s);

Instructor: Burk, Thomas Edward

Description: This course provides orientation and planning for students entering the Forest Resources (FR) and Recreation Resources Management (RRM) majors. During this semester students will be introduced to key issues in their fields of study. Description of careers, career planning (choice of major tracks, internships, summer experience, mentoring), academic advising and engagement with alumni contacts are major components of the course. Introduction to professional skill building includes information technology tools in the workplace and access to library and research tools. At the end of this course students should know the kind of course work needed for their degree choice as well as the timing of when to take courses to successfully complete their undergraduate degree program. Students should know what the student learning centers (SLC) and SMART commons are and how to use them. In addition students should be able to: a) write a cover letter and develop a resume targeting a specific job of interest to them, b) know how to conduct a job search and prepare for a job interview, c) find an internship of interest using resources at the St. Paul Campus Career Center, d) find and apply for study abroad opportunities, e) understand how to use the campus libraries to access information, f) have an appreciation for and obtain some exposure to the importance of geospatial data to their field of study, g) manipulate data in an EXCEL spreadsheet, and h) assess their desire to continue their education beyond the baccalaureate level.

FR 1101 Dendrology: Identifying Forest Trees and Shrubs

3 credit(s);

Instructor: Vogt, Carl Eugene

Description: Identification nomenclature, classification, and distribution of common and important forest trees and shrubs. Use of keys and field and lab methods of identification. Offered every fall. Introduce students to the major tree species which comprise 85% of the forest cover of North America. Laboratory and lecture programs help students use plant keys for identifying (leaves, fruit, bark, buds and tree form) of selected species in the field and laboratory. Students learn the silvical and ecological relationships, range, economic importance, natural history, insect/disease problems and wildlife relationships. Students develop an understanding and appreciation for the forest environment and learn about and identify species in other regions of North America and the world

Style: 35% Lecture, 5% Discussion, 30% Laboratory, 5% Small

Group Activities, 5% Student Presentation, 10% Demonstration, 10% Field Trips. Students are expected to attend all lectures and participated in weekly lab sessions which are held outdoors
Grading: 15% final exam, 5% reports/papers, 40% quizzes, 10% written homework, 15% additional semester exams, 5% class participation, 10% laboratory evaluation. Students have an opportunity to earn 1000 points. Final grade is based on their cumulative score.

Exam Format: Written exams are multiple choice, matching, ID, true/false, and short written sections. Lab quizzes are written identification using scientific nomenclature, matching etc.

FR 3104 Forest Ecology

A-F only, 4 credit(s); prereq Biol 1001 or 1009; 1 semester college chemistry recommended Weekend field trip (required); Credit will not be granted if credit has been received for: FR 5104;

Instructor: Montgomery, Rebecca Anne

Description: Ecology, the study of the interactions of organisms and their environment, forms the essential foundation of the management and conservation of the world's ecosystems. This course examines basic ecological principles through the lens of forest ecosystems, exploring the theory and practice of ecology at various levels of organization from individuals to populations, communities and ecosystems. At each level we examine past and current theoretical advances and use case studies to evaluate the impacts of increasing human domination of global systems on forested ecosystems. The course covers diverse topics including global climate change; individual and population growth; community assembly; invasive species; biodiversity; and alteration of water, carbon and nutrient cycles. During two class periods per week we explore forest ecology through a combination of lecture, group learning and problem solving, and discussion. Labs include group research projects and trips to local natural areas, urban forests, and the north shore of Lake Superior. Lab sessions are designed to complement and reinforce material covered in regular class periods.

Style: 30% Lecture, 30% Laboratory, 20% Small Group Activities. Cooperative group learning activities. Laboratory involves field trips and data collection in forest around the metro area.

Grading: 20% mid exam, 15% final exam, 35% reports/papers, 8% special projects, 2% quizzes, 2% in-class presentation, 13% class participation, 5% laboratory evaluation.

Exam Format: A mixture of definitions, multiple choice, matching, short and long essay

FR 3114 Hydrology and Watershed Management

3 credit(s); prereq [Biol 1009, Chem 1011] or instr consent; Credit will not be granted if credit has been received for: FR 5114;

Instructor: Brooks, Kenneth N

Description: Introduction to the hydrologic cycle and water resources with an emphasis on rural watersheds. Applications of hydrologic concepts to evaluate impacts of land use and management on water yield, storm flow, flooding, erosion, sedimentation, and stream channel - riparian processes. The role of hydrologic information in achieving integrated watershed management is emphasized throughout the course. State, national and international examples are presented.

FR 3131 Geographical Information Systems (GIS) for Natural Resources

A-F only, 4 credit(s); prereq Soph or jr or sr; Credit will not be granted if credit has been received for: FR 5131;

Instructor: Jenks, Andrew Carl

Description: FR 3131 is an introduction to Geographical Information Systems, focusing on spatial data development and analysis in the science and management of natural resources. Topics covered include basic data structures, data sources, data collection, data quality, geodesy and map projections, spatial and tabular data analyses, digital elevation data and terrain analyses, cartographic modeling, and cartographic layout. Laboratory exercises provide practical experiences that complement the theory covered in lecture.

Style: 50% Lecture, 50% Laboratory.

Grading: 15% mid exam, 15% final exam, 55% laboratory evaluation, 15% other evaluation. Third Test

Exam Format: short answer; multiple choice

instr consent ;

Instructor: Vogt, Carl Eugene

Description: Student may contact the instructor or department for information.

FR 3204 Landscape Ecology and Management

A-F only, 3 credit(s); prereq Ecology course; Credit will not be granted if credit has been received for: FR 5204;

Instructor: Reich, Peter Bernard

Description: This course is an introduction and survey of landscape ecology. The major theme of the class is the role of spatial configuration on ecological patterns and processes. We examine the landscape ecology in its application to research, analysis, conservation, and management. Topics include: sources of landscape pattern, introduction to landscape quantification, ecological scale, population dynamics, reserve design, and patch dynamics, and disturbance. Special topics are introduced on an annual basis.

FR 4293 Directed Study

1-5 credit(s), max credits 15, 3 completions allowed; prereq instr consent ;

Instructor: Enzler, Sherry Anne

Description: Student may contact the instructor or department for information.

FR 3204 Landscape Ecology and Management

A-F only, 3 credit(s); prereq Ecology course; Credit will not be granted if credit has been received for: FR 5204;

Instructor: Frellich, Lee E

Description: This course is an introduction and survey of landscape ecology. The major theme of the class is the role of spatial configuration on ecological patterns and processes. We examine the landscape ecology in its application to research, analysis, conservation, and management. Topics include: sources of landscape pattern, introduction to landscape quantification, ecological scale, population dynamics, reserve design, and patch dynamics, and disturbance. Special topics are introduced on an annual basis.

FR 4293 Directed Study

1-5 credit(s), max credits 15, 3 completions allowed; prereq instr consent ;

Instructor: Hoganson, Howard M

Description: Study/project on topic of personal interest in consultation with faculty member. Initial proposal, reports of accomplishments.

FR 4293 Directed Study

1-5 credit(s), max credits 15, 3 completions allowed; prereq instr consent ;

Instructor: Nelson, Kristen C

Description: Study/project on topic of personal interest in consultation with faculty member. Initial proposal, reports of accomplishments.

FR 4293 Directed Study

1-5 credit(s), max credits 15, 3 completions allowed; prereq instr consent ;

Instructor: Burk, Thomas Edward

Description: Study/project on topic of personal interest in consultation with faculty member. Initial proposal, reports of accomplishments.

FR 3262 Remote Sensing of Natural Resources and Environment

4 credit(s); Credit will not be granted if credit has been received for: FR 5262;

Instructor: Knight, Joe

Description: Student may contact the instructor or department for information.

FR 4293 Directed Study

1-5 credit(s), max credits 15, 3 completions allowed; prereq instr consent ;

Instructor: Baughman, Mel J.

Description: Study/project on topic of personal interest in consultation with faculty member. Initial proposal, reports of accomplishments.

FR 3262 Remote Sensing of Natural Resources and Environment

4 credit(s); Credit will not be granted if credit has been received for: FR 5262;

Instructor: Knight, Joe

Description: Principles and techniques of remote sensing and its applications to mapping and monitoring land/water resources from local to global scales. Forest and natural resource inventory. Forest cover and soil mapping. Land use and global change analysis. Lab provides hands-on experience working with aerial photography and digital imagery using the Imagine image processing software package.

Style: 75% Lecture, 25% Laboratory.

Grading: 60% mid exam, 30% special projects, 10% quizzes. Grading is based on three mid-term exams, one class project, and several in-class quizzes.

Exam Format: The exams are a combination of multiple choice, short answer, and short essay.

FR 4293 Directed Study

1-5 credit(s), max credits 15, 3 completions allowed; prereq instr consent ;

Instructor: Kilgore, Mike

Description: Study/project on topic of personal interest in consultation with faculty member. Initial proposal, reports of accomplishments.

FR 4293 Directed Study

1-5 credit(s), max credits 15, 3 completions allowed; prereq instr consent ;

Instructor: Blinn, Charles R

Description: Study/project on topic of personal interest in consultation with faculty member. Initial proposal, reports of accomplishments.

FR 4200H Honors Seminar

A-F only, 1 credit(s); prereq FR upper division honors, instr consent ;

Instructor: STAFF

Description: Student may contact the instructor or department for information.

FR 4293 Directed Study

1-5 credit(s), max credits 15, 3 completions allowed; prereq instr consent ;

Instructor: Current, Dean Alan

Description: Study/project on topic of personal interest in consultation with faculty member. Initial proposal, reports of accomplishments.

FR 4293 Directed Study

1-5 credit(s), max credits 15, 3 completions allowed; prereq instr consent ;

Instructor: Ek, Alan Ryan

Description: Study/project on topic of personal interest in consultation with faculty member. Initial proposal, reports of accomplishments.

FR 4293 Directed Study

1-5 credit(s), max credits 15, 3 completions allowed; prereq instr consent ;

Instructor: Schneider, Ingrid Eleanore

Description: Study/project on topic of personal interest in consultation with faculty member. Initial proposal, reports of accomplishments.

FR 4293 Directed Study

1-5 credit(s), max credits 15, 3 completions allowed; prereq

FR 4293 Directed Study

1-5 credit(s), max credits 15, 3 completions allowed; prereq instr consent ;

Instructor: Reich, Peter Bernard

Description: Study/project on topic of personal interest in consultation with faculty member. Initial proposal, reports of accomplishments.

FR 4293 Directed Study

1-5 credit(s), max credits 15, 3 completions allowed; prereq instr consent ;

Instructor: Bauer, Marvin E

Description: Study/project on topic of personal interest in consultation with faculty member. Initial proposal, reports of accomplishments.

FR 4293 Directed Study

1-5 credit(s), max credits 15, 3 completions allowed; prereq instr consent ;

Instructor: Johnson, Gary

Description: Study/project on topic of personal interest in consultation with faculty member. Initial proposal, reports of accomplishments.

FR 4293 Directed Study

1-5 credit(s), max credits 15, 3 completions allowed; prereq instr consent ;

Instructor: Frelich, Lee E

Description: Study/project on topic of personal interest in consultation with faculty member. Initial proposal, reports of accomplishments.

FR 4293 Directed Study

1-5 credit(s), max credits 15, 3 completions allowed; prereq instr consent ;

Instructor: Carlson, Stephan Paul

Description: Study/project on topic of personal interest in consultation with faculty member. Initial proposal, reports of accomplishments.

FR 4293 Directed Study

1-5 credit(s), max credits 15, 3 completions allowed; prereq instr consent ;

Instructor: Brooks, Kenneth N

Description: Study/project on topic of personal interest in consultation with faculty member. Initial proposal, reports of accomplishments.

FR 4293 Directed Study

1-5 credit(s), max credits 15, 3 completions allowed; prereq instr consent ;

Instructor: Bolstad, Paul V

Description: Study/project on topic of personal interest in consultation with faculty member. Initial proposal, reports of accomplishments.

FR 4293 Directed Study

1-5 credit(s), max credits 15, 3 completions allowed; prereq instr consent ;

Instructor: David, Andrew J

Description: Study/project on topic of personal interest in consultation with faculty member. Initial proposal, reports of accomplishments.

FR 4293 Directed Study

1-5 credit(s), max credits 15, 3 completions allowed; prereq instr consent ;

Instructor: D'Amato, Anthony William

Description: Study/project on topic of personal interest in consultation with faculty member. Initial proposal, reports of accomplishments.

FR 4293 Directed Study

1-5 credit(s), max credits 15, 3 completions allowed; prereq instr consent ;

Instructor: Davenport, Mae Allen

Description: Student may contact the instructor or department for information.

FR 4293 Directed Study

1-5 credit(s), max credits 15, 3 completions allowed; prereq instr consent ;

Instructor: Stafford, Susan G

Description: Student may contact the instructor or department for information.

FR 4293 Directed Study

1-5 credit(s), max credits 15, 3 completions allowed; prereq instr consent ;

Instructor: Montgomery, Rebecca Anne

Description: Study/project on topic of personal interest in consultation with faculty member. Initial proposal, reports of accomplishments.

FR 4293 Directed Study

1-5 credit(s), max credits 15, 3 completions allowed; prereq instr consent ;

Instructor: Becker, Dennis R

Description: Study/project on topic of personal interest in consultation with faculty member. Initial proposal, reports of accomplishments.

FR 4293 Directed Study

1-5 credit(s), max credits 15, 3 completions allowed; prereq instr consent ;

Instructor: Knight, Joe

Description: Study/project on topic of personal interest in consultation with faculty member. Initial proposal, reports of accomplishments.

FR 4801H Honors Research

A-F only, 2 credit(s); prereq FR upper division honors, instr consent ;

Instructor: STAFF

Description: First semester of independent research project supervised by faculty member.

FR 4802H Honors Research

A-F only, 2 credit(s); prereq FR upper division honors, instr consent ;

Instructor: STAFF

Description: Honors thesis. Oral report.

FR 5104 Forest Ecology

A-F only, 4 credit(s); prereq [[Biol 1001 or 1009], grad student] or instr consent ; 1 semester college chemistry recommended Weekend field trip (required); Credit will not be granted if credit has been received for: FR 3104;

Instructor: Montgomery, Rebecca Anne

Description: Ecology, the study of the interactions of organisms and their environment, forms the essential foundation of the management and conservation of the world's ecosystems. This course examines basic ecological principles through the lens of forest ecosystems, exploring the theory and practice of ecology at various levels of organization from individuals to populations, communities and ecosystems. At each level we examine past and current theoretical advances and use case studies to evaluate the impacts of increasing human domination of global systems on forested ecosystems. The course covers diverse topics including global climate change; individual and population growth; community assembly; invasive species; biodiversity; and alteration of water, carbon and nutrient cycles. During two class periods per week we explore forest ecology through a combination of lecture, group learning and problem solving, and discussion. Labs include group research projects and trips to local natural areas, urban forests, and the north shore of Lake Superior. Lab sessions are designed to complement and reinforce material covered in regular class periods. At the graduate level, students work in a graduate cooperative learning group during class periods, design an interactive learning activity and participate in a weekly literature discussion group.

Style: 15% Lecture, 20% Discussion, 50% Laboratory. cooperative group learning activities

Grading: 20% mid exam, 15% final exam, 20% reports/papers, 15% special projects, 3% quizzes, 5% in-class presentation, 20% class participation, 3% laboratory evaluation.

Exam Format: Graduate exams will be essay format

FR 5114 Hydrology and Watershed Management

3 credit(s); prereq Grad student or instr consent; Credit will not be granted if credit has been received for: FR 3114;

Instructor: Brooks, Kenneth N

Description: Introduction to the hydrologic cycle and water resources with an emphasis on rural watersheds. Applications of hydrologic concepts to evaluate impacts of land use and management on water yield, storm flow, flooding, erosion, sedimentation, and stream channel - riparian processes. The role of hydrologic information in achieving integrated watershed management is emphasized throughout the course. State, national and international examples are presented.

FR 5131 Geographical Information Systems (GIS) for Natural Resources

A-F only, 4 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: FR 3131;

Instructor: Jenks, Andrew Carl

Description: Introduction to GIS. Focuses natural resources. Data structures, sources, collection, and quality. Lab exercises introduce geodesy, map projections, spatial analyses, and cartographic modeling.

FR 5204 Landscape Ecology and Management

A-F only, 3 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: FR 3204;

Instructor: Reich, Peter Bernard

Description: This course is an introduction and survey of landscape ecology. The major theme of the class is the role of spatial configuration on ecological patterns and processes. We examine the landscape ecology in its application to research, analysis, conservation, and management. Topics include: sources of landscape pattern, introduction to landscape quantification, ecological scale, population dynamics, reserve design, and patch dynamics, and disturbance. Special topics are introduced on an annual basis.

FR 5204 Landscape Ecology and Management

A-F only, 3 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: FR 3204;

Instructor: Frelich, Lee E

Description: This course is an introduction and survey of landscape ecology. The major theme of the class is the role of spatial configuration on ecological patterns and processes. We examine the landscape ecology in its application to research, analysis, conservation, and management. Topics include: sources of landscape pattern, introduction to landscape quantification, ecological scale, population dynamics, reserve design, and patch dynamics, and disturbance. Special topics are introduced on an annual basis.

FR 5262 Remote Sensing of Natural Resources and Environment

4 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: FR 3262;

Instructor: Knight, Joe

Description: Principles and techniques of remote sensing and its applications to mapping and monitoring land/water resources from local to global scales. Forest and natural resource inventory. Forest cover and soil mapping. Land use and global change analysis. Lab provides hands-on experience working with aerial photography and digital imagery using the Imagine image processing software package.

FR 5262 Remote Sensing of Natural Resources and Environment

4 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: FR 3262;

Instructor: Knight, Joe

Description: Principles and techniques of remote sensing and its applications to mapping and monitoring land/water resources from local to global scales. Forest and natural resource inventory. Forest cover and soil mapping. Land use and global change analysis. Lab provides hands-on experience working with aerial photography and digital imagery using the Imagine image processing software package.

FR 5264 Advanced Forest Management Planning

3 credit(s); prereq 3471 or instr consent;

Instructor: Hoganson, Howard M

Description: Applied models for forest planning to integrate forest resource conditions and uses. Scales range from tactical stand-level management to strategic forest-wide and landscape-level planning and regional timber supply analysis. Understanding optimization models and heuristic techniques as tools for trade-off and sensitivity analyses of alternative management policies and goals. Integrating sustainable timber production with desirable future conditions and spatial structure or biodiversity objectives. Practical problems and case studies involving recent large-scale applications. Offered summer and fall.

FR 5412 Digital Remote Sensing

3 credit(s); prereq 3262 or grad student or instr consent;

Instructor: Bauer, Marvin E

Description: Advanced 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. Demonstration

Grading: 30% mid exam, 20% final exam, 30% special projects, 10% in-class presentation, 10% problem solving.

Exam Format: Essay

FR 8101 Research Problems: Physiological Ecology

1-5 credit(s), max credits 10, 10 completions allowed; prereq instr consent;

Instructor: Reich, Peter Bernard

Description: Independent research under faculty guidance.

FR 8101 Research Problems: Physiological Ecology

1-5 credit(s), max credits 10, 10 completions allowed; prereq instr consent;

Instructor: Montgomery, Rebecca Anne

Description: Student may contact the instructor or department for information.

FR 8102 Research Problems: Forest-Tree Genetics

1-5 credit(s), max credits 5, 1 completion allowed;

Instructor: David, Andrew J

Description: Student may contact the instructor or department for information.

FR 8103 Research Problems: Forest Hydrology

1-5 credit(s), max credits 5, 1 completion allowed;

Instructor: Eckman, Karlyn

Description: Student may contact the instructor or department for information.

FR 8103 Research Problems: Forest Hydrology

1-5 credit(s), max credits 5, 1 completion allowed;

Instructor: Brooks, Kenneth N

Description: Student may contact the instructor or department for information.

FR 8104 Research Problems: Forest Ecology

1-5 credit(s), max credits 5, 1 completion allowed;

Instructor: Reich, Peter Bernard

Description: Student may contact the instructor or department for information.

Instructor: Nelson, Kristen C

Description: Student may contact the instructor or department for information.

FR 8104 Research Problems: Forest Ecology

1-5 credit(s), max credits 5, 1 completion allowed;

Instructor: Frelich, Lee E

Description: Student may contact the instructor or department for information.

FR 8204 Research Problems: Forest Policy

1-5 credit(s), max credits 10, 4 completions allowed;

Instructor: Baughman, Mel J.

Description: Student may contact the instructor or department for information.

FR 8104 Research Problems: Forest Ecology

1-5 credit(s), max credits 5, 1 completion allowed;

Instructor: Montgomery, Rebecca Anne

Description: Student may contact the instructor or department for information.

FR 8204 Research Problems: Forest Policy

1-5 credit(s), max credits 10, 4 completions allowed;

Instructor: Kilgore, Mike

Description: Student may contact the instructor or department for information.

FR 8105 Research Problems: Silviculture

1-5 credit(s), max credits 5, 1 completion allowed;

Instructor: D'Amato, Anthony William

Description: Student may contact the instructor or department for information.

FR 8204 Research Problems: Forest Policy

1-5 credit(s), max credits 10, 4 completions allowed;

Instructor: Current, Dean Alan

Description: Student may contact the instructor or department for information.

FR 8106 Research Problems: Urban Forestry--Biology and Management

1-5 credit(s), max credits 5, 1 completion allowed;

Instructor: Johnson, Gary

Description: Student may contact the instructor or department for information.

FR 8204 Research Problems: Forest Policy

1-5 credit(s), max credits 10, 4 completions allowed;

Instructor: Becker, Dennis R

Description: Student may contact the instructor or department for information.

FR 8107 Seminar: Forest Resources

1 credit(s);

Instructor: Thompson, Jerrilyn L

Description: Student may contact the instructor or department for information.

FR 8205 Research Problems: Spatial Data Analysis

1-5 credit(s), max credits 10, 10 completions allowed; prereq instr consent;

Instructor: Bauer, Marvin E

Description: Student may contact the instructor or department for information.

FR 8201 Research Problems: Forest Economics

1-5 credit(s), max credits 5, 1 completion allowed;

Instructor: Hoganson, Howard M

Description: Student may contact the instructor or department for information.

FR 8205 Research Problems: Spatial Data Analysis

1-5 credit(s), max credits 10, 10 completions allowed; prereq instr consent;

Instructor: Bolstad, Paul V

Description: Student may contact the instructor or department for information.

FR 8201 Research Problems: Forest Economics

1-5 credit(s), max credits 5, 1 completion allowed;

Instructor: Kilgore, Mike

Description: Student may contact the instructor or department for information.

FR 8206 Research Problems: Forest Management

1-5 credit(s), max credits 5, 1 completion allowed;

Instructor: Ek, Alan Ryan

Description: Student may contact the instructor or department for information.

FR 8201 Research Problems: Forest Economics

1-5 credit(s), max credits 5, 1 completion allowed;

Instructor: Becker, Dennis R

Description: Student may contact the instructor or department for information.

FR 8206 Research Problems: Forest Management

1-5 credit(s), max credits 5, 1 completion allowed;

Instructor: Kilgore, Mike

Description: Student may contact the instructor or department for information.

FR 8202 Research Problems: Forest Biometry and Measurements

1-5 credit(s), max credits 5, 1 completion allowed;

Instructor: Ek, Alan Ryan

Description: Student may contact the instructor or department for information.

FR 8206 Research Problems: Forest Management

1-5 credit(s), max credits 5, 1 completion allowed;

Instructor: Blinn, Charles R

Description: Student may contact the instructor or department for information.

FR 8202 Research Problems: Forest Biometry and Measurements

1-5 credit(s), max credits 5, 1 completion allowed;

Instructor: Burk, Thomas Edward

Description: Student may contact the instructor or department for information.

FR 8206 Research Problems: Forest Management

1-5 credit(s), max credits 5, 1 completion allowed;

Instructor: Blanchette, Robert A

Description: Student may contact the instructor or department for information.

FR 8203 Research Problems: Forest Recreation

1-5 credit(s), max credits 5, 1 completion allowed;

Instructor: Schneider, Ingrid Eleanor

Description: Student may contact the instructor or department for information.

FR 8207 Economic Analysis of Natural Resource Projects

A-F only, 2 credit(s); prereq instr consent;

Instructor: Kilgore, Mike

Description: Student may contact the instructor or department for information.

FR 8204 Research Problems: Forest Policy

1-5 credit(s), max credits 10, 4 completions allowed;

FR 8208 Research Problems: Environmental Learning and Leadership

1-5 credit(s), max credits 5, 1 completion allowed; prereq

instr consent;**Instructor:** Nelson, Kristen C**Description:** Student may contact the instructor or department for information.**FR 8208 Research Problems: Environmental Learning and Leadership****1-5 credit(s), max credits 5, 1 completion allowed; prereq****instr consent;****Instructor:** Baughman, Mel J.**Description:** Student may contact the instructor or department for information.**FR 8208 Research Problems: Environmental Learning and Leadership****1-5 credit(s), max credits 5, 1 completion allowed; prereq****instr consent;****Instructor:** Carlson, Stephan Paul**Description:** Student may contact the instructor or department for information.**French****260 Folwell Hall****FREN 100 Reading French in the Arts and Sciences****S-N only, 0 credit(s);****Instructor:** Akehurst JD, PhD, Frank Ronald**Description:** Student may contact the instructor or department for information.**FREN 1001 Beginning French****5 credit(s);****Instructor:** STAFF

Description: This course is intended for students with NO previous study of French, or students who have not studied French in recent years (gap of 3 years or more). If you have more than two years of high school French completed within the last year or two, you should register for Fren 1022 which provides students with an accelerated review of Fren 1001 material followed by material covered in Fren 1002. For further information on placement, see your advisor or contact the Department of French and Italian. Fren 1001 is a theme-based course. Students develop their communication skills in French in different areas: speaking, writing, listening and reading. In addition to linguistic skills, students develop a better understanding of diverse aspects of French-speaking cultures. Themes addressed in the course include: student life, family, recreation, life in Francophone cities, housing, Francophone heritage in Northern America and Canada. The text, "Deux Mondes," 6th ed., is accompanied by an electronic workbook (Quia) with a variety of practice activities including listening ones, designed to be used by students outside of class. In the "Deux Mondes" textbook students will work with materials from "Premiere Etape" through Ch. 5. Since the majority of class is devoted to communication activities, class attendance is fundamental. Expect an average of 1.5 hours of outside preparation for each class session hour.

Style: Combination of whole-class and small-group activities**Grading:** 10% mid exam, 15% final exam, 12% reports/papers, 8% special projects, 10% quizzes, 25% other evaluation. written exams; 12% oral tests; 8% workbook exercises**Exam Format:** All exams evaluate listening, vocabulary, grammar, writing, reading and culture.**FREN 1002 Beginning French****5 credit(s); prereq 1001 or equiv; Credit will not be granted if credit has been received for: FREN 4022;****Instructor:** STAFF

Description: Fren 1002 is intended for students who have completed Fren 1001 or the equivalent. In this course students build on the interpersonal, interpretive and presentational skills developed in first-semester French and on their knowledge and understanding of Francophone practices and products. Culture is

taught through multimedia and cultural readings. Fren 1002 is a theme-based course. Themes addressed in this course include: Francophone youth, food, geography, the environment, travel, education and employment. The text, "Deux Mondes," 6th ed., is accompanied by an electronic workbook (Quia/Centro) with a variety of practice activities including listening ones, designed to be used by students outside of class. In the "Deux Mondes" textbook students will work with materials from Ch. 6 through Ch. 10. Since the majority of class is devoted to communication activities, class attendance is fundamental. Expect an average of 1.5 hours of outside preparation for each class session hour.

Style: Class Time: Mostly discussion and student involvement in pair/group activities.**Grading:** 30% written exams, 15% oral exams, 13% final exam, 12% reports/papers, 13% special projects, 12% quizzes, 5% workbook exercises**Exam Format:** All exams evaluate listening, vocabulary, grammar, writing, reading and culture. Oral skills are assessed in pair discussions.**FREN 1003 Intermediate French****5 credit(s); prereq 1002 or Entrance Proficiency Test;****Instructor:** STAFF**Description:** 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**Grading:** Grade: 15%: final exam, 20%: reports/papers, 6%: chapter quizzes, 7%: class participation, 32%: other evaluation: written exams (22.5%), writing assignments on movie, on-line writing assignments (9.5%), 15%: oral exams, 5%: workbook exercises.**Exam Format:** Exam Format: Exams assess a student's listening, reading, speaking and writing proficiency and cultural knowledge and understanding. Oral exams are administered in pairs, written exams involve answering short questions and essay writing.**FREN 1004 Intermediate French****5 credit(s); prereq 1003 or Entrance Proficiency Test;****Instructor:** STAFF

Description: This course is for those who have successfully passed Fren 1003 with a C- or better or have passed all sections of the EPT (Entrance Proficiency Test) for this level. This course continues the building of speaking, writing, listening and reading skills acquired during the first three semesters of French while expanding cultural awareness, knowledge and understanding of Francophone cultures. Emphasis is placed on reading, writing and culture. Themes addressed in this course include cinema, education, travel and leisure, and Francophonie. The textbook "Interaction" 7th ed. includes contemporary informational readings, historical information, and literary texts. In this text students will learn material from Ch. 10, 6, 8, 9. Audio-materials to accompany the workbook are available on the course website for use outside the classroom. Writing skills will be developed

through process-writing essays. Several class sessions will allow students to work with audio-visual resources to develop their listening and culture skills, and to work with authentic web-based resources to develop their reading skills and cultural competence. Students will become more sophisticated readers of literary texts. In the course students will read a short novel 'Une vie de Boy' by F.Oyono. During enrollment in 1004 students who choose to, will have the opportunity to complete the Language Proficiency Exam (LPE) and earn a text line on their transcript endorsing their proficiency in French.

Style: Mostly discussion and student involvement in pair/group activities

Grading: 15% final exam, 20% reports/papers, 8% quizzes, 8% class participation, 30% other evaluation. written exams, 15% oral exams, 5% workbook exercises

Exam Format: Exams assess a student's listening, reading, speaking and writing proficiency. Oral exams are administered in pairs, written exams involve answering short questions and essay writing.

FREN 1022 Accelerated Beginning French

5 credit(s); prereq 2 or more yrs high school French;

Instructor: STAFF

Description: Prereq: 2 or more yrs high school French This beginning French course for false beginners is intended for students who have previously studied French in high school or at a community college, or who are transfer students, while Fren 1001 is a course for students with no previous French studies. The Fren 1022 course begins with a review of Fren 1001 materials (Ch. preliminaire through Ch. 5 in "Deux Mondes" 6th ed.), followed by materials introduced in Fren 1002 (Ch. 6 through Ch. 10). In other words, the course allows students to learn first-year materials in one semester. Upon entering Fren 1022 students should be familiar with basic vocabulary related to daily life and daily survival situations, present and past tenses (please note: "passe compose" will be reviewed and "imparfait" will be introduced). Fren 1022 is a theme-based course. Themes addressed in this course include: student life, family, recreation, housing, Francophone heritage in North-America, Francophone youth, food, geography, the environment, travel, education and employment. Students develop knowledge and understanding of Francophone practices and products through multimedia and cultural readings. The text, "Deux Mondes," 6th ed., is accompanied by an electronic workbook (Quia/Centro) with a variety of practice activities including listening ones, designed to be used by students outside of class. Since the majority of class is devoted to communication class attendance is fundamental.

Style: Mostly discussion and student involvement in pair/group activities

Grading: 36% written exams, 15% oral exams, 13% final exam, 12% reports/papers, 10% special projects, 7% quizzes, 7% workbook exercises

Exam Format: All exams evaluate listening, vocabulary, grammar, writing, reading and culture. Oral skills are assessed in pair discussions.

FREN 3014 French Phonetics

2 credit(s); prereq 1004;

Instructor: Treece PhD,Rick

Description: This course will focus on both the theoretical and practical aspects of French pronunciation, with a strong emphasis on improving pronunciation. In the theoretical portion of the course, the major aspects of French pronunciation will be examined, with particular attention given to areas of contrast between French and English pronunciation. Students will learn to use symbols from the International Phonetic Alphabet in order to do phonetic transcription, i.e. representing French sounds with phonetic symbols. Another important theoretical component is learning the rules governing the correspondence between written letters and their pronunciation. In the practical portion of the course, students will be given extensive pronunciation practice so that they may identify and eliminate errors in their own pronunciation. NOTE: This is NOT a course in French conversation. This course is designed for non-native speakers of French and is a required course for students completing a French major under semesters. However, students with excellent

pronunciation skills may gain exemption from this requirement by passing a practical pronunciation test.

Style: 10% Lecture, 10% Discussion, 80% Laboratory.

Grading: 10% final exam, 5% reports/papers, 20% quizzes, 10% class participation, 10% laboratory evaluation, 45% other evaluation. 8 audio recordings

Exam Format: short answer, multiple choice

FREN 3015 Advanced French Grammar and Communication

4 credit(s); prereq 1004 or equiv or instr consent;

Instructor: STAFF

Description: Fren 3015 is the first in a two-course sequence (with 3016) which combines an intensive review of grammar with a special focus on the articulation and organization of ideas through reading, writing, and textual analysis. In 3015, students will develop skills in a variety of writing forms (e.g. portrait, description, narration) while exploring selected cultural themes through written texts and film. Course requirements include exams as well as regular writing assignments, which usually involve one rewriting. In order to enroll in 3015, it is highly recommended that students have completed Fren 1004 with a minimum grade of B; transfer students should take the Language Proficiency Exam and receive a High Pass. For information on the LPE, see http://langtest.umn.edu/imdatesGPT.html

Style: Language instruction

Exam Format: Grammar exercises, essays

FREN 3016 Advanced French Composition and Communication

4 credit(s); prereq 3015 or equiv or instr consent;

Instructor: STAFF

Description: Fren 3016 is the second in a two-course sequence (with 3015) which combines an intensive review of grammar with a special focus on the articulation and organization of ideas through reading, writing, and textual analysis. In 3016, students will develop skills in a variety of writing forms (e.g. 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 3018 French Oral Communication

3 credit(s); prereq 3014, 3015;

Instructor: Mougel,Patricia M.

Description: In this course students will do intensive work in listening comprehension and oral expression by exploring current events in the Francophone world, with an emphasis on France. The main goals for the course are improvement of listening and speaking skills through the exploration of Francophone current events. Secondary goals include vocabulary expansion and a greater awareness of stylistic variation in French. Intensive practice in listening will be provided using authentic audio and video recordings on current events, and other multi-media materials to be used in and outside of class. Students will write regular journal entries to record vocabulary and content learned through their listening work. Students will practice oral expression through discussions, expressing their opinions on the themes addressed in the course, comparing and contrasting with similar themes/situations in the U.S. They will do oral summaries of aural and textual materials and participate in role-plays and debates, They will also be able to participate in on-line oral discussions with peers and their instructor outside of class to further their speaking skills and interpretations of cultural content. The course is web-enhanced which allows students to work with authentic audio and video materials at their own pace. Articles on current events can be accessed from the course site to expand on themes addressed in the course and further develop linguistic and cultural skills. Beyond resources made available, students

will need to use the Internet regularly for listening practice and to prepare for oral presentations. No text required.

Style: 15% Film/Video, 30% Discussion, 25% Small Group Activities, 20% Student Presentation, 10% Web Based.

Grading: 20% final exam, 18% special projects, 7% quizzes, 25% written homework, 22% in-class presentation, 8% class participation.

FREN 3101W Introduction to French Literature

4 credit(s); prereq 3015 or equiv; Meets CLE req of Literature Core; meets CLE req of Writing Intensive;

Instructor: STAFF

Description: This course is an introduction to literature and methods of literary analysis for students preparing a major or minor in French. This course treats selected works of French and Francophone literature from the Early Modern to the Modern Period. Students learn to identify the salient features of the major genres, to apply techniques of close textual reading, and to write critical analyses of poetry, fictional prose, and plays. Works are analyzed from various perspectives with a view to understanding their place in literary history and cultural context. Some key topics of the course will be subjectivity, language, narration, description, rhetorical figures, identity, power, and desire. Writing is an important component of this class; class discussions and oral assignments will focus not only on understanding literary works but also on how they function, so that students may apply skills developed through discussion to their written assignments.

Style: 60% Lecture, 40% Discussion.

Grading: 15% mid exam, 60% reports/papers, 15% class participation.

Exam Format: essay

FREN 3101W Introduction to French Literature

4 credit(s); prereq 3015 or equiv; Meets CLE req of Literature Core; meets CLE req of Writing Intensive;

Instructor: Sivert,Eileen B

Description: This course is an introduction to literature and methods of literary analysis for students preparing a major or minor in French. This course treats selected works of French and Francophone literature from the Early Modern to the Modern Period. Students learn to identify the salient features of the major genres, to apply techniques of close textual reading, and to write critical analyses of poetry, fictional prose, and plays. Works are analyzed from various perspectives with a view to understanding their place in literary history and cultural context. Some key topics of the course will be subjectivity, language, narration, description, rhetorical figures, identity, power, and desire. Writing is an important component of this class; class discussions and oral assignments will focus not only on understanding literary works but also on how they function, so that students may apply skills developed through discussion to their written assignments.

FREN 3380 Modern Times: Literature of the 19th and 20th Centuries: Surrealism and the 19th Century

3 credit(s), max credits 9, 3 completions allowed; prereq 3101;

Instructor: Wall-Romana,Christophe M

Description: This course is an introduction to Surrealism, from its early antecedents in 19th century fantastic literature and poetry, through Dadaism, up until World War II. Surrealism is arguably the most influential avant-garde movement of the 20th century, and we will try figuring out why. We will concentrate on writings, but also study collages, paintings, photographs, and films. We will investigate the surrealist theories of Andre Breton, the dynamics of the group, and its social ideas and practices, in particular regarding history, gender, sexuality, anti-nationalism, mysticism, death, and social bonds. Books include Valentine de Saint-Point's Manifeste de la femme futuriste (1912), Aragon's Le Paysan de Paris (1924), Desnos' La Liberte ou l'amour (1927), Claude Cahun's Heroines (1935), and Leonora Carrington's Le Cornet Acoustique. We will watch films by Man Ray, Luis Buñuel, and Jean Cocteau. The reading list is hefty, but we will also experiment with surrealist games.

Style: 25% Lecture, 15% Film/Video, 40% Discussion, 10% Small Group Activities, 10% Student Presentation.

FREN 3451 North African Cinema

3 credit(s); prereq 3101;

Instructor: Abderrezak,Hakim

Description: Fren 3451 North African Cinema: Contemporary Beur and Maghrebi Film. This course is designed to introduce students to the French cinema of North African origin, as well as the cinemas of the Maghreb, which is comprised of the nations of Morocco, Algeria and Tunisia. Through films, supplemented by readings in philosophy, history, sociology, anthropology and, more broadly, cultural critique, students will learn about the cultural, social and political realities of ethnic minorities in France as well as Francophone and Arabophone North Africa. This course focuses on cinematic representations of communitarian integration, national identity, and cultural exchanges. Themes investigated this semester include globalization, immigration and French secularism. Among the films that we will analyze are all shown outside of class: Nadir Mokneche's Delice Paloma, and Abdellatif Kechiche's trilogy La Faute a Voltaire, Games of Love and Chance and The Secret of the Grain.

Style: 40% Lecture, 30% Discussion, 20% Small Group Activities, 10% Student Presentation.

Grading: 25% mid exam, 25% final exam, 15% reports/papers, 10% attendance, 10% in-class presentation, 15% class participation.

FREN 3479 Francophone Writers of the African Diaspora

3 credit(s); prereq 3101; Meets CLE req of International Perspective Theme;

Instructor: Preckshot,J E

Description: Although entitled "Africans in Paris: Stories of Students and Workers," this course is focused as much on the movement between Africa and France as it is on Paris, the dream destination for many Sub-Saharan francophone Africans who have made their way to France either as students or workers throughout the 20th century. The first belong to an elite class of educated Africans among which have been celebrated intellectuals, writers, and artists as well as future heads of state. The second, often semi-illiterate and from impoverished rural areas, found their way to France first as seamen or soldiers in the Colonial Army called upon to defend France during two world wars, more recently as laborers and undocumented workers. What conjoins these two distinct classes is the fact of being in transit between two continents. Recurring in literature and film, the figures of the student and worker embody aspirations towards greater opportunities motivating their movement from South to North and are emblematic of sometimes alienating lived experience resulting in immigration for some and return home for others. This course invites reflection on transnational movements from the perspective of francophone African authors and film-makers, whose works will be supplemented by readings documenting relevant social and historical phenomena such as the Tirailleurs Senegalais, 1931 colonial exposition, sapeurs and sans-papiers.

Style: 35% Lecture, 15% Film/Video, 35% Discussion, 15% Student Presentation.

FREN 3541 Oral Discourse of French

3 credit(s); prereq 3015; Ling 3001 recommended;

Instructor: Kerr,Betsy Jean

Description: Are you confused, or intrigued, by the differences between the formal French you've learned in class, and the 'real' French you've heard spoken in France? How does oral language, no matter what the language, differ from written language? This seminar will explore these questions. The main course texts are Ball, ?Colloquial French Grammar?, and Blanche-Benveniste, ?Approches de la langue parlee en Francais?. Ball's text is a thorough treatment of the syntactic and morphological features which distinguish colloquial spoken French from more formal styles of the language. Descriptions and analyses will be illustrated with data from the Minnesota Corpus and other available electronic corpuses (large samples of real-world language). Outside-of-class preparation will include readings, hands-on work such as transcription of recordings of conversation and analysis of data by means of a concordancer (glorified search engine - instruction provided), in-class presentations, and one course project. Readings in French and

English, class discussion and assignments in French. The course is intended for advanced undergraduates and graduate students with an interest in French linguistics. Note: This course is NOT A CONVERSATION COURSE. Ideally, students should have some background in linguistics (either French or general), but students with advanced proficiency in French (minimum Fren 3015, preferably 3016) may be admitted without prior linguistics coursework.

Style: 20% Lecture, 60% Discussion, 10% Student Presentation, 10% Web Based.

Grading: 10% reports/papers, 25% special projects, 5% quizzes, 15% written homework, 25% in-class presentation, 20% class participation.

FREN 3650 Topics in French/Francophone Cultures: The Idea of Paris
3 credit(s), max credits 9, 3 completions allowed; prereq 3015;

Instructor: Brewer, Daniel

Description: This course examines the meanings that the idea of Paris has acquired in the modern French cultural imagination. Focusing on constructions of Paris in various media, including literature, painting, photography, film, and built space, we will read and view Paris as a metaphor or allegory of urban and global modernity. We will analyze and evaluate specific figures, stories, and images of Paris in order to explore issues pertaining to lived urban experience such as: mass culture and alienation, the technology of city pleasure, the growth of capitalism and consumerism, the city as memory site, urban resistance and revolution, the porous global city, the gendering of urban life. This course is designed to offer a greater knowledge of modern and contemporary French cultural history. Secondary readings will provide historical and cultural background for our readings and discussions, as well as important theoretical paradigms for evaluating the idea of Paris. Offered in French.

Style: 45% Lecture, 10% Film/Video, 35% Discussion, 10% Student Presentation.

FREN 4001 Beginning French
2 credit(s); prereq Grad student;
Instructor: STAFF

Description: This course is intended for students with NO previous study of French, or students who have not studied French in recent years (gap of 3 years or more). If you have more than two years of high school French completed within the last year or two, you should register for Fren 4022 which provides students with an accelerated review of Fren 4001 material followed by material covered in Fren 4002. For further information on placement, see your advisor or contact the Department of French and Italian. Fren 4001 is a theme-based course. Students develop their communication skills in French in different areas: speaking, writing, listening and reading. In addition to linguistic skills, students develop a better understanding of diverse aspects of French-speaking cultures. Themes addressed in the course include: student life, family, recreation, life in Francophone cities, housing, Francophone heritage in Northern America and Canada. The text, "Deux Mondes," 6th ed., is accompanied by an electronic workbook (Quia) with a variety of practice activities including listening ones, designed to be used by students outside of class. In the "Deux Mondes" textbook students will work with materials from "Premiere Etape" through Ch. 5. Since the majority of class is devoted to communication activities, class attendance is fundamental. Expect an average of 1.5 hours of outside preparation for each class session hour.

Style: Combination of whole-class and small-group activities

Grading: 10% mid exam, 15% final exam, 12% reports/papers, 8% special projects, 10% quizzes, 25% other evaluation. written exams; 12% oral tests; 8% workbook exercises

Exam Format: All exams evaluate listening, vocabulary, grammar, writing, reading and culture.

FREN 4002 Beginning French
2 credit(s); prereq Grad student;
Instructor: STAFF

Description: Fren 4002 is intended for students who have

completed Fren 4001 or the equivalent. In this course students build on the interpersonal, interpretive and presentational skills developed in first-semester French and on their knowledge and understanding of Francophone practices and products. Culture is taught through multimedia and cultural readings. Fren 4002 is a theme-based course. Themes addressed in this course include: Francophone youth, food, geography, the environment, travel, education and employment. The text, "Deux Mondes," 6th ed., is accompanied by an electronic workbook (Quia/Centro) with a variety of practice activities including listening ones, designed to be used by students outside of class. In the "Deux Mondes" textbook students will work with materials from Ch. 6 through Ch. 10. Since the majority of class is devoted to communication activities, class attendance is fundamental. Expect an average of 1.5 hours of outside preparation for each class session hour.

Style: Mostly discussion and student involvement in pair/group activities

Grading: 30% written exams, 15% oral exams, 13% final exam, 12% reports/papers, 13% special projects, 12% quizzes, 5% workbook exercises

Exam Format: All exams evaluate listening, vocabulary, grammar, writing, reading and culture. Oral skills are assessed in pair discussions.

FREN 4003 Intermediate French
2 credit(s); prereq Grad student;
Instructor: STAFF

Description: 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); prereq Grad student;
Instructor: STAFF

Description: This course is for those who have successfully passed Fren 1003 with a C- or better or have passed all sections of the EPT (Entrance Proficiency Test) for this level. This course continues the building of speaking, writing, listening and reading skills acquired during the first three semesters of French while expanding cultural knowledge. Emphasis is placed on reading, writing and culture. Themes addressed in this course include cinema, transportation and technology, education, leisure, and the francophone world. The text, "Interaction" 6th ed., includes contemporary informational readings, historical information, and literary texts. In this text students will learn material from Ch. 6 through Ch. 10. Audio-materials to accompany the workbook are available on the course website for use outside the classroom. Writing skills will be developed through process-writing essays. Several class sessions will allow students to work with audio-visual resources to develop their listening and culture

skills, and to work with authentic web-based resources to develop their reading skills and cultural competence. Students will become more sophisticated readers of literary texts (from France and the francophone world) as they work with a selection of 19th- and 20th-century literary readings compiled in "Explorations: La littérature du monde français", 4th ed.

FREN 4022 Accelerated Beginning French

2 credit(s); prereq Grad student; Credit will not be granted if credit has been received for: FREN 1002;

Instructor: STAFF

Description: Prereq: 2 or more yrs high school French This beginning French course for false beginners is intended for students who have previously studied French in high school or at a community college, or who are transfer students, while Fren 4001 is a course for students with no previous French studies. The Fren 4022 course begins with a review of Fren 4001 materials (Ch. préliminaire through Ch. 5 in "Deux Mondes" 6th ed.), followed by materials introduced in Fren 4002 (Ch. 6 through Ch. 10). In other words, the course allows students to learn first-year materials in one semester. Upon entering Fren 4022 students should be familiar with basic vocabulary related to daily life and daily survival situations, present and past tenses (please note: "passe compose" will be reviewed and "imparfait" will be introduced). Fren 4022 is a theme-based course. Themes addressed in this course include: student life, family, recreation, housing, Francophone heritage in North-America, Francophone youth, food, geography, the environment, travel, education and employment. Students develop knowledge and understanding of Francophone practices and products through multimedia and cultural readings. The text, "Deux Mondes," 6th ed., is accompanied by an electronic workbook (Quia/Centro) with a variety of practice activities including listening ones, designed to be used by students outside of class. Since the majority of class is devoted to communication class attendance is fundamental.

Grading: 36% written exams, 15% oral exams, 13% final exam, 12% reports/papers, 10% special projects, 7% quizzes, 7% workbook exercises

Exam Format: All exams evaluate listening, vocabulary, grammar, writing, reading and culture. Oral skills are assessed in pair discussions.

FREN 4101V Honors: Seminar in French Studies

3 credit(s); prereq Completion of all pre-elective requirements for major or permission of DUS; Meets CLE req of Writing Intensive;

Instructor: Wall-Romana, Christophe M

Description: Students design and carry out a substantial research project on a topic of their choice in the area of French and Francophone Studies (linguistics, literature or culture). The topic must be approved by the instructor, and the research paper will be written in consultation with the lead instructor and other faculty members in the Department, as appropriate. French majors who plan to complete the requirements for another CLA major (including senior paper) are not required to take Fren 4101, although they may wish to. These students must substitute 3 credits in advanced electives numbering 3111 or above in the French major for Fren 4101.

Style: 100% Discussion.

Grading: 75% reports/papers, 10% in-class presentation, 15% class participation.

Exam Format: Essay

FREN 4101W Seminar in French Studies

3 credit(s); prereq Completion of all pre-elective requirements for major or permission of DUS; Meets CLE req of Writing Intensive;

Instructor: Wall-Romana, Christophe M

Description: Students design and carry out a substantial research project on a topic of their choice in the area of French and Francophone Studies (linguistics, literature or culture). The topic must be approved by the instructor, and the research paper will be written in consultation with the lead instructor and other faculty members in the Department, as appropriate. French majors who plan to complete the requirements for another CLA major (including senior paper) are not required to take Fren

4101, although they may wish to. These students must substitute 3 credits in advanced electives numbering 3111 or above in the French major for Fren 4101.

Style: 100% Discussion.

Grading: 75% reports/papers, 10% in-class presentation, 15% class participation.

Exam Format: Essay

FREN 4970 Directed Readings

1-4 credit(s), max credits 9, 9 completions allowed; prereq instr consent;

Instructor: STAFF

Description: Meets unique requirements decided on by faculty member and student. Individual contracts are drawn up listing contact hours, number of credits, written and other work required.

FREN 5350 Topics in Literature and Culture: Work of

Translation: Theory, Function, Practice

3 credit(s), max credits 12, 4 completions allowed; prereq 3101 or equiv;

Instructor: Allen, Joseph R

Description: Student may contact the instructor or department for information.

FREN 5470 Post/Colonial Francophone Literatures

3 credit(s), max credits 9, 3 completions allowed; prereq 3111 or above;

Instructor: Abderrezak, Hakim

Description: Fren 5470 Post/Colonial Francophone Literatures: Consumptions in Beur and Maghrebi Literature, Cinema and Theory In this seminar, we will read a wide array of western and North African theoretical works concerning postcolonial issues ranging from migration and globalization in the Mediterranean to politics of food esthetics in ethnic minorities in France; and the link between the western genre and the colonization of Algeria. The selected readings will provide us with the necessary tools to engage in informed discussions of a selection of Maghrebi (North African) as well as Beur (French of North African descent) literary and cinematographic works.

Style: 50% Lecture, 30% Discussion, 20% Student Presentation.

Grading: 30% mid exam, 40% final exam, 5% attendance, 15% in-class presentation, 10% class participation.

FREN 5541 Oral Discourse of French

3 credit(s); prereq 3015, grad student; Ling 5001 recommended;

Instructor: Kerr, Betsy Jean

Description: Are you confused, or intrigued, by the differences between the formal French you've learned in class, and the 'real' French you've heard spoken in France? How does oral language, no matter what the language, differ from written language? This seminar will explore these questions. The main course texts are Ball, ?Colloquial French Grammar?, and Blanche-Benveniste, ?Approches de la langue parlee en Francais?. Ball's text is a thorough treatment of the syntactic and morphological features which distinguish colloquial spoken French from more formal styles of the language. Descriptions and analyses will be illustrated with data from the Minnesota Corpus and other available electronic corpuses (large samples of real-world language). Outside-of-class preparation will include readings, hands-on work such as transcription of recordings of conversation and analysis of data by means of a concordancer (glorified search engine - instruction provided), in-class presentations, and one course project. Readings in French and English, class discussion and assignments in French. The course is intended for advanced undergraduates and graduate students with an interest in French linguistics. Note: This course is NOT A CONVERSATION COURSE. Ideally, students should have some background in linguistics (either French or general), but students with advanced proficiency in French (minimum Fren 3015, preferably 3016) may be admitted without prior linguistics coursework. Class meets with Fren 3541. Graduate students will be required to develop one of the course projects into a full-blown research paper, requiring additional outside reading as well as original research. Graduate students will also be

expected to demonstrate a more thorough grasp of course topics, and more original responses to course material in class discussions and written work.

Style: 20% Lecture, 60% Discussion, 10% Student Presentation, 10% Web Based.

Grading: 40% reports/papers, 5% quizzes, 20% written homework, 10% in-class presentation, 25% class participation.

FREN 8110 Topics in Early Medieval French Literature:

Experiments in Romance

3 credit(s), max credits 9, 3 completions allowed;

Instructor: Brown, Mary Frances

Description: Experiments in Romance This course will consider the earliest manifestations of one of the principal genres of the Middle Ages: romance, predecessor of the novel. The genre first appeared toward the middle of the twelfth century, in highly experimental form. In French and Angevin milieux, clerks trained in Latin, who would ordinarily have exercised their literary skills only in that language, for the benefit of their fellow clerks and a small elite of highly educated nobles, began to wish to reach a larger audience. They therefore tried their hand at writing in the vernacular, which we now call Old French but which they referred to simply as "romanz," the "Romance language." Their approaches varied: while some engaged in loose translation/adaptation of classical epic (the "Romans d'Antiquite"), others adapted Celtic tales (the Tristan and Arthurian legends). Chretien de Troyes, the most synthetic thinker among this coterie of writers, sometimes drew upon broadly divergent traditions in what he called, famously, a "mout belle conjointure" (a "very lovely conjoining"). We shall read a broad selection of these texts, studying not only those well-known romances that have become staples of medieval literature syllabi, but also a few texts neglected in modern scholarship but nevertheless highly significant in their own time and indispensable for an understanding of early romance. Readings will therefore include the Tristan romances of Thomas and Beroul, selections from the Roman de Troie of Benoit de Sainte-Maure and the Roman d'Alexandre, and all five of Chretien's romances. At the end of the semester, we shall look beyond the end of the twelfth century, taking account of the new prose romance of the thirteenth by studying the *Quete du saint Graal*. This selection of texts opens up a number of avenues for inquiry. Early romance lends itself to analyses of folklore or of translation. Alternatively, these texts may be read through the lens of psychoanalytic, feminist, queer, and postcolonial theory. Since romance could serve both as a bearer of ideology and as a venue for the critique of that ideology, its representations of women, of sexuality, of violence, and of the antique, Muslim, Byzantine, or Celtic Other have all been the subject of scholarship, but there remains much work to be done. Finally, romance's relationship to its own historical context remains a fraught but fascinating question. The course will be taught in English, and students from all programs are welcome. A reading knowledge of Modern French is required. No prior knowledge of Old French is presupposed. Students will read the texts in Modern French translation; those interested in studying the texts in their original language may sign up for the optional, one-credit Old French workshop (one additional hour of instruction per week).

FREN 8220 Staging Modernity: Seminar in Problems of 20th-Century Theatre

3 credit(s), max credits 9, 3 completions allowed;

Instructor: Brewer, Maria M

Description: Prof. Maria Brewer French 8220 Staging Modernity: Problems of 20th-Century French and Francophone Theater At the intersection of a variety of cultural practices and disciplines, modern theater offers productive sites of experimentation with, and at, the limits of representation. This seminar examines major developments in modern French and Francophone drama and performance in France, with a focus on avant-garde innovations at the turn of the century and after 1945 in the work of dramatists and directors who have shaped theater in the 20th-Century. Taking the paradigms of theatricality and common ground, which frame a number of ongoing debates, the seminar will question the material and symbolic dimensions of theater in terms of language, space, time, the body, play, and

community. Among other topics, the following will be pursued: 1) theater and the "making visible" of the *socius*, 2) the stage as material, symbolic, and unconscious representation, 3) gender, sexuality, and performance, and 4) theater and global cultural exchange. Theatrical movements we will be studying include symbolist, existentialist, avant-garde, and contemporary drama and performance. The essential contributions of Antonin Artaud and Berthold Brecht in articulating and theorizing the modern stage will be studied. Plays and critical essays include the work of Aime Cesaire, Jean-Paul Sartre, Albert Camus, Samuel Beckett, Eugene Ionesco, Jean Genet, Marguerite Duras, Helene Cixous, Ariane Mnouchkine, Bernard-Marie Koltès, Jose Pliya, and Koffi Kwahule. These readings will be informed by selected essays in theater studies, including theater history and Prague School theater semiology as well as psychoanalysis, gender studies, and postmodern critical thought. Video and DVD versions of plays as well as powerpoint presentations of slides and video-clips of stage productions will be viewed and discussed. The seminar will be conducted in French. Students from other programs who know French may participate in English. Seminar Requirements: presentations, seminar paper, participation

French and Italian *260 Folwell Hall*

FRIT 5999 Teaching of French and Italian: Theory and Practice **3 credit(s);**

Instructor: Mougel, Patricia M.

Description: This course is designed primarily for new graduate students who will be teaching language courses in the Department of French and Italian, but is open to advanced undergraduates as well. The course is taught primarily in English. Course goals are both theoretical and practical: 1) To understand language acquisition theory as applied to foreign language instruction and the current context of foreign language instruction at the college level. 2) To gain a better understanding of the Natural Approach, including both its theoretical foundations and its practical implementation. 3) To gain a better understanding of the processes involved in learning and teaching a foreign language and its culture(s) with respect to each of the four skills (reading, writing, listening, speaking). 4) To understand how current theory translates into practice through various practical activities. 5) To acquire a critical, reflective attitude about one's own teaching. Assignments include the following: course readings (80-100 pages/week), reports of several class observations, journals, preparation of teaching and testing activities (pedagogical materials portfolio), summaries of professional articles and a final oral presentation on a topic of interest to the student.

Style: 40% Lecture, 60% Discussion.

Gay, Lesbian, Bisexual, and Transgender Studies *425 Ford Hall*

GLBT 1001 Introduction to GLBT Studies

3 credit(s);

Instructor: Giusti, Jessica

Description: Student may contact the instructor or department for information.

GLBT 3472 Gay Men and Homophobia in American Culture **3 credit(s); Meets CLE req of Cultural Diversity Theme;**

meets CLE req of Historical Perspective Core;

Instructor: Conley, John E

Description: Why are gay men socially marginalized yet symbolically central to the production and reproduction of our ideas about both society and of self in our present historical

moment? In other words, what currently are ? and what have been ? the uses (and abuses) of gay men in American society? Whose interests are served in the maintenance and proliferation of forms of homophobia? In this course, we will pose some tough questions to the world in which we live ? and, undoubtedly, to ourselves ? by way of an introductory study of gay male subjectivity, homoeroticism, queer life, HIV/AIDS, and homophobia in American culture.

Style: 40% Lecture, 30% Discussion, 30% Student Presentation.

GLBT 3610 Topics in GLBT Studies: Intro to GLBTA Community and UM Resources

3 credit(s), max credits 6;

Instructor: Phibbs, Anne Elizabeth

Description: The Twin Cities boasts one of the most politically and socially active GLBTA communities in the country. Similarly, the U of M Twin Cities campus offers multiple opportunities for involvement in GLBTA service, scholarship and community. This one credit course is an opportunity for any interested students to learn about - and experience - this multi-faceted gay, lesbian, bisexual, transgender and ally (GLBTA) community, both in the Twin Cities and at the U of M Twin Cities campus. Students with little - or with lots - of GLBTA-related experience are encouraged to attend, as are any and all interested community members.

Style: 20% Discussion, 20% Field Trips, 40% Guest Speakers, 20% Service Learning.

GLBT 3610 Topics in GLBT Studies: A Movement of Poets

3 credit(s), max credits 6;

Instructor: Katz, Judith

Description: Thirty years before Ellen, before Will and Grace, or The LWord, gay and lesbian writers and poets were publishing their own work and making a culture for themselves. Magazines such as The Ladder, which contained writing by members of the lesbian organization Daughters of Bilitis and the gay men's Matachine Society were sent to subscribers in plain brown wrappers. The Ladder became the mother of journals such as Sinister Wisdom and Conditions which would carry early and established work by authors such as Gloria Anzaldúa, Dorothy Alison, Barbara Smith, and Cherrie Moraga among many others. While City Lights books in San Francisco was publishing work by Allen Ginsberg, Glad Day and other small presses were bringing out work by many other queer poets. Self publishers in the late 1960's and early 1970's, unable or unwilling to find mainstream venues for their writing published ground breaking work on their own. Soon, in the wake of the women's movement and the Stonewall uprising, small presses were publishing work by established poets and writers as well as known queer artists and theoreticians. This class will attempt to examine and contextualize the history of this publishing movement by reading work by and about the writers involved in these various publishing enterprises, using original texts where available. We will also take advantage of local research resources such as the University of Minnesota's Tretter Collection and augment our study with guests from the community. Texts for this course will include work by Audre Lorde; Adrienne Rich; Allen Ginsberg; Essex Hemphill; Cherrie Moraga, and many others.

Style: 40% Lecture, 10% Film/Video, 30% Discussion, 10% Student Presentation, 10% Guest Speakers.

Grading: 40% reports/papers, 10% attendance, 25% in-class presentation, 25% class participation.

GLBT 4101 Gender, Sexuality, and Politics in America

3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core;

Instructor: Cartwright, Ryan Lee

Description: Student may contact the instructor or department for information.

GLBT 4403 Queering Theory

3 credit(s); prereq 1002 or 3102 or instr consent ;

Instructor: Puotinen, Sara Lynne

Description: Student may contact the instructor or department for information.

Gender, Women, and Sexuality Studies

425 Ford Hall

GWSS 1001 Gender, Power, and Everyday Life

3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;

Instructor: Hedgmon, M. L.

Description: Student may contact the instructor or department for information.

GWSS 1001 Gender, Power, and Everyday Life

3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;

Instructor: Creel Falcon, Kandace

Description: Student may contact the instructor or department for information.

GWSS 1902 Freshman Seminar: What's Normal, What's Not: Critical Look at Autism

A-F only, 3 credit(s); prereq Fr with no more than 29 cr; Meets CLE req of Cultural Diversity Theme;

Instructor: Desai, Jigna

Description: Anyone watching the news recently knows about the alarming increase in autism diagnoses, nationally and locally. What is autism? Are autistic brains broken or just different? In this course, we will explore how people are diagnosed as autistic and what that diagnosis means, medically, socially, and personally. We will investigate the broader political and social consequences of diagnoses that label people as being disabled or different from "normal", and where our societal ideas about normality come from.

GWSS 3002 Gender, Race, and Class: Women's Lives in the United States

3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Cultural Diversity Theme;

Instructor: Moskow, Rebecca J

Description: Student may contact the instructor or department for information.

GWSS 3003 Gender and Global Politics

3 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core;

Instructor: Detournay, Diane Angela

Description: Student may contact the instructor or department for information.

GWSS 3003 Gender and Global Politics

3 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core;

Instructor: Purcell Gates, Laura

Description: Student may contact the instructor or department for information.

GWSS 3102W Feminist Thought and Theory.

3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive;

Instructor: Bashore, Katie L

Description: Student may contact the instructor or department for information.

GWSS 3203W Skin, Sex, and Genes

3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive;

Instructor: Urquhart, Alex T

Description: Student may contact the instructor or department for information.

GWSS 3302 Women and the Arts

3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core;

Instructor: Connolly, Patricia K

Description: What is the relationship between art and social justice? How do women artists position themselves and their art in relation to social change? How are women artists experimenting with form and subject not only to respond to existing social inequalities, but to also imagine alternative ways of being? And how do projects by contemporary women artists complement, complicate, and challenge one another? So asks this course through an exploration of contemporary women artists and their work. Thinking through various art forms (the visual, performance-based, dance, spoken word, music, the written) we will explore how women artists contest and complicate notions of gender and genre as they intersect with questions of identity (race, class, sexuality, religion, nation) and political commitments. While we will engage with artists from a wide range of social and geopolitical spheres, we will also engage on the local level, taking particular advantage of the vibrant arts scene in the Twin Cities. Because art cannot simply be studied, but must also be experienced, in addition to reading key pieces of feminist and queer art criticism, a large part of the course will be devoted to attending, reflecting, and discussing local arts events in the community. Students will be asked to attend at least 5 arts events during the semester. The majority of writing will be reflective and/or creative, allowing students to work through and respond to questions and thematics addressed in the works we engage throughout the semester.

GWSS 3307 Feminist Film Studies

3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core;

Instructor: Kumar, Elakshi

Description: Student may contact the instructor or department for information.

GWSS 3308W Women's Contemporary Fiction

3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;

Instructor: Pu, Xiumei

Description: This course explores the concept and re/conceptualization of community and nature in women's contemporary fiction. Students will be introduced to ecofeminist and womanist literary criticism. Readings and discussions will be focused on interlocking issues of race, class, gender, sexuality, spirituality, and the environment. Required core texts will include *Now Is the Time to Open Your Heart* by Alice Walker, *Daughter of the Mountain* by Edna Escamill, *Green Fires: Assault on Eden-A Novel of the Ecuadorian Rainforest* by Marnie Mueller, and *Saving Fish from Drowning* by Amy Tan. These four women writers come from diverse ethnic backgrounds. We will investigate how they approach issues of race, class, gender, sexuality, spirituality, and the environment from different standpoints and perspectives. Convergences regarding these issues will be examined as well. The goals of this class are to foster critical thinking and help students practice literary analytical skills. Class activities will include short lectures, discussions, film screening, and peer review.

Grading: 10% attendance, 30% reflection paper, 10% class participation, final paper proposal: 10% peer review: 10% final paper: 30%

GWSS 3390 Topics: Visual, Cultural, and Literary Studies: A Movement of Poets

3 credit(s), max credits 6;

Instructor: Katz, Judith

Description: Thirty years before Ellen, before Will and Grace, or *The LWord*, gay and lesbian writers and poets were publishing their own work and making a culture for themselves. Magazines such as *The Ladder*, which contained writing by members of the lesbian organization *Daughters of Bilitis* and the gay men's *Matachine Society* were sent to subscribers in plain brown wrappers. *The Ladder* became the mother of journals such as *Sinister Wisdom* and *Conditions* which would carry early and

established work by authors such as Gloria Anzaldua, Dorothy Alison, Barbara Smith, and Cherrie Moraga among many others. While *City Lights* books in San Francisco was publishing work by Allen Ginsberg, Glad Day and other small presses were bringing out work by many other queer poets. Self publishers in the late 1960's and early 1970's, unable or unwilling to find mainstream venues for their writing published ground breaking work on their own. Soon, in the wake of the women's movement and the Stonewall uprising, small presses were publishing work by established poets and writers as well as known queer artists and theoreticians. This class will attempt to examine and contextualize the history of this publishing movement by reading work by and about the writers involved in these various publishing enterprises, using original texts where available. We will also take advantage of local research resources such as the University of Minnesota's Tretter Collection and augment our study with guests from the community. Texts for this course will include work by Audre Lorde; Adrienne Rich; Allen Ginsberg; Essex Hemphill; Cherrie Moraga, and many others.

Style: 40% Lecture, 10% Film/Video, 30% Discussion, 10% Student Presentation, 10% Guest Speakers.

Grading: 40% reports/papers, 10% attendance, 25% in-class presentation, 25% class participation.

GWSS 3407 Women in Early and Victorian America: 1600-1890 **3 credit(s), max credits 5; Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core;**

Instructor: Martino, Gina Michelle

Description: Student may contact the instructor or department for information.

GWSS 3410 La Chicana

3 credit(s); Credit will not be granted if credit has been received for: CHIC 3212; Meets CLE req of Cultural Diversity Theme;

Instructor: Bueno, Marianne M.

Description: This course explores the roles and lives of Chicanas in the US from a feminist and interdisciplinary perspective. In order to understand the historical and contemporary positionality of Chicanas we will use the Aztec deity, Coyolxauhqui, as our organizing concept. The dismemberment of Coyolxauhqui by her brother, Huitzilopochtli, not only represents the first misogynistic act perpetrated against the antecedents of present-day Chicanas, but also symbolizes the dismemberment of Chicanas by the political, economic, social and cultural structures of the US. As such, this class will examine the roles and lives of Chicana artists, intellectuals, activists, scholars, writers and workers. We will use a variety of sources, including scholarly articles, creative writing, film and art, in order to construct a nuanced understanding of Chicanas at different historical moments and in our contemporary society. As we interrogate the lived experience of Chicanas over the course of the semester we will also attempt to re-member Coyolxauhqui in order to reconstruct her in a new feminist order.

GWSS 3415 Feminist Perspectives on Domestic Violence and Sexual Assault

3 credit(s);

Instructor: Schuster, Mary Lay

Description: This course focuses on the history of and contemporary thinking about activism, social change, public policies, and legal remedies directed toward sexual assault and domestic violence in the US, particularly from the point of view of feminist perspectives. The course deals with how social construction of women's and men's bodies, including their reproductive responsibilities, and changing notions of privacy contribute to attitudes toward stranger sexual assault and intimate partner violence. Readings in the course offer insight into early links between slavery and rape, between the temperance movement and domestic violence, and between views of child abuse and sexual abuse, as well as the increasing roles of psychiatry and social work in addressing such violence. The course traces how these historical foundations and cultural attitudes help determine contemporary responses by legal officials, and the course covers such diverse topics as the impact

of HIV/AIDS on rape survivors; sexual abuse of men in prison; incest; and sex offender treatment. Students will visit the domestic violence court in Hennepin County, and the course ends with a close look at a project by the president of William Mitchell Law School on sexual predator laws, such as civil commitment and community notification, in terms of their effectiveness, feminist perspectives, and impact on Constitutional rights. Course Objectives: ? To study sexual assault and domestic violence, within a historical and contemporary culture context and from the point of view of feminist perspectives. ? To compare and contrast cultural foundations and legal responses to the two crimes. ? To learn how the history of legal and public policy issues toward domestic violence and sexual assault has influenced contemporary thinking. ? To understand the construction of the private and public sphere and how these constructions influence legal and public policy remedies directed at domestic violence and sexual assault. ? To understand how social attitudes toward gender roles and how media responses to crime determine legal and public policy responses to domestic violence and sexual assault. ? To observe and understand the cultural and historical foundations of legal responses to domestic violence and sexual assault such as orders of protection, restitution, anger management courses, domestic violence treatment, and jail time versus probation. ? To understand the systemic changes that might be needed or recommended to enhance our cultural and legal reactions to sexual assault and domestic violence. Assignments and Course Grade: Participation and discussion: 10% Reading quizzes: 15% First take-home essay exam: 35% Second take-home exam: 35% Field trip report; 5% **Grading:** 35% mid exam, 35% final exam, 5% reports/papers, 15% quizzes, 10% class participation. Exams are essay take-home exams

GWSS 3590 Topics: Social Change, Activism, Law, and Policy Studies: Multiracial Feminist Activism

3 credit(s), max credits 6;

Instructor: Isoke PhD, Zenzele

Description: Multiracial Feminist Politics and Policy This course will explore the contemporary ways that multiracial feminists have confronted the intersecting effects of racism, sexism, and colonialism through local, translocal, and transnational social and political activism. Most of the readings, discussions, and workshops will be focused on domestic violence, immigration, criminalization, and reproductive justice. This course will introduce students to new theorizing on politics, feminist policy alternatives, and the actual organizing strategies that multiracial feminists have employed to challenge intersecting social inequalities. Required Texts: Color of Violence: The Incite! Anthology. Boston: South End Press, 2006. The Fire This Time: Young Activists and the New Feminism edited by Vivian Labaten and Dawn Lundy Martin. New York: Anchor Books, 2004.

GWSS 4102 Women, Gender, and Science

3 credit(s); prereq 1001 or 1002 or 3102 or instr consent; Meets CLE req of Cultural Diversity Theme;

Instructor: Kohlstedt, Sally Gregory

Description: Women, gender, and science are intersecting themes. This history class will be consider historical patterns from the seventeenth century to the present: the goals and incentives of women in science, the patterns of their participation, and the gendered configurations that influence the practice and substance of science. The participation of women in science will be addressed through biographies of some well-known women scientists; accounts of the many women writers, illustrators, and teachers fundamental in the development of modern science; and discussions about women in scientific and medical literature. The institutional organizations and patterns of participation that influenced women's lives vary considerably by time and place, making historical outlook critical. Increasingly scholars have been investigating the ways in which women's participation intersects with the gendered practices of science. Gender constructions external to and within science frame issues in science as well as medicine and technology. We will meet weekly for discussion and presentations based on readings and other class preparation. Sources continue to

multiply on this topic as professional scientific associations create web sites about women in specific disciplines, as film makers place women in scientific and medical situations, and as scholars investigate women's lives through archival records.

Style: The class will use a variety of resources to participate in class activities - panel discussions, debates, and even impersonations if there are students with a theatrical bent. We will use of an internet resources on women scientific travelers.

GWSS 4103 Transnational Feminist Theories

3 credit(s);

Instructor: Murthy, Pashmina V

Description: What is the transnational, and why is it such an important area of study today? In this course, we will explore the term in relation to feminist theories and activism, focusing particularly on the following aspects: ? distinctions among the transnational, the international, and the global ? the advantages and challenges of transnational activism ? universal rights versus cultural particularity ? resisting and participating in hegemonic feminism(s) ? the role of the UN and other organizations Over the course of the semester, we will learn to navigate the complex terrain of agency and resistance, local and global processes, and critiques of power and violence. Proposed assignments for the course include Reflections, 50 minutes, and Shop Talk.

GWSS 4403 Queering Theory

3 credit(s); prereq 1002 or 3102 or instr consent ; Credit will not be granted if credit has been received for: GWSS 5503;

Instructor: Puotinen, Sara Lynne

Description: Lesbianism and lesbian identities as products of cultural practices, relations, and meanings that are historically specific/changing.

GWSS 5103 Feminist Pedagogies

3 credit(s); prereq grad or instr consent;

Instructor: Puotinen, Sara Lynne

Description: Student may contact the instructor or department for information.

GWSS 8108 Feminist Theories and Methods I

3 credit(s); prereq Feminist studies PhD or grad minor student or instr consent ;

Instructor: Zita, Jacquelyn N

Description: Two-semester interdisciplinary seminar. First term: current debates in gender theory; intersections of gender theory with critical race theory, post-colonial theory, sexuality theory, and social class analysis. Second term: inter-/multi-disciplinary feminist research frameworks/methodologies from humanities and social sciences. 8108 is the first in the two -semester seminars.

GWSS 8190 Topics: Feminist Theory: Feminisms and Praxis

A-F only, 2 credit(s), max credits 12, 12 completions allowed;

Instructor: Nagar, Richa

Description: Student may contact the instructor or department for information.

GWSS 8190 Topics: Feminist Theory: Post Colonial Feminist Theory: Need more be said?

A-F only, 3 credit(s), max credits 12, 12 completions allowed;

Instructor: Murthy, Pashmina V

Description: The study of postcolonial feminist theory obviates the need for an explanation because an engagement with it is always imperative, timely, and critical. But the question posed in the course title also interrogates precisely that timeliness. In the much-studied intersectionality of race, class, gender, and nation, does the continued study of postcolonial feminist theory add any new perspectives, or does it merely echo what has already been said? The goal of this course is two-fold. We will examine some of the central concerns of postcolonial feminist theory in the past two decades, particularly those that emerge from its relationship with the (inter)disciplinary domains of postcolonial and feminist studies. The second, though by no means secondary, focal point will be to tease out its usefulness as a critical paradigm in

exploring the large conceptual umbrellas of globalization and neo-colonialism. If we think of postcolonial studies as ? what Ali Behdad has termed ? a `belated? critical praxis, can postcolonial feminist theory still engage successfully with contemporary political and cultural vicissitudes? Or is there a demand for a new theorization that builds upon postcolonial feminism while simultaneously moving beyond it? What more need be said? The readings for the course will be predominantly theoretical, including writings by Bruce Robbins, Rajeswari Sunder Rajan, Ileana Rodriguez, Walter Dignolo, Rey Chow, Ien Ang, Jean Comaroff, and Wendy Brown, among others.

GWSS 8301 Feminist Literary Criticism

3 credit(s);

Instructor: Kaminsky, Amy K

Description: Student may contact the instructor or department for information.

GWSS 8996 Feminist Studies Colloquium

S-N only, 1 credit(s), max credits 4, 4 completions allowed; prereq Grad major or minor in feminist studies;

Instructor: Scheman, Naomi

Description: Student may contact the instructor or department for information.

GWSS 8997 Feminist Research and Writing

1-3 credit(s), max credits 9, 3 completions allowed; prereq 8109, passed written prelims in degree granting program;

Instructor: Desai, Jigna

Description: Our very notions of native citizen was forged against ?aliens ineligible for citizenship,? our ideas of cultural appropriateness were formulated in relation to groups deemed to have ?excessive culture? on the one hand and ?no culture? in the other, and the designation of some groups as ?model minorities? was intended to discipline ?not-so-model minorities.? We thus believe that a serious engagement with the heterogeneous and trans-national histories and relationships among communities such as African Americans, Euro-Americans, Asian Americans, Latinos, and Native Americans is necessary for contemporary scholarship of race in general, as well as of any particular community or identity. Even research projects that are not explicitly comparative must think through the various subtexts, shadows, and other categories through which or against which their particular foci was constructed. We believe that by interrogating comparative racial formations both across ?minority? groups as well as between majority and minority groups, this seminar will strengthen a wide-array of interdisciplinary research that engage with questions of race, privilege, power, identity, intersectionality, citizenship, American culture and history, and diaspora. Within this context, the course will also explore how racial formations are inflected and must be understood as articulated through and mutually constituted by other forms of social difference such as class, ethnicity, citizenship, gender, and sexuality. This class is designed for those who have passed their prelim exams. Creating a supportive and rigorous environment in which graduate students learn to both expand their conceptual paradigms and assemble the building blocks of writing a dissertation is a central goal of the course. The design of the course is thus two-fold: it will combine both interdisciplinary readings and discussion in comparative race and ethnic studies and peer feedback workshops. A central theme of the class, then, will be to think through the process and methodology of writing, to develop our writing ? both process and the product ? in conversation with each other. First, by building an interdisciplinary peer writing community, the seminar will require students to present their research topics and questions in a manner that is understandable to those in other disciplines while learning to make explicit the possibilities and limitations of their own scholarship. Second, we will acknowledge and discuss explicitly the very particular process and form of writing a dissertation, and in doing so, we hope to create an enriched learning experience that seeks to demystify the steps of completing a PhD. We realize that the writing process can be painful, isolating, invigorating, frustrating, and inspiring. Through peer workshops and faculty feedback, the hope is that this class

will establish an intellectually engaging environment and tackle the specificities of the dissertation format.

GWSS 8997 Feminist Research and Writing

1-3 credit(s), max credits 9, 3 completions allowed; prereq 8109, passed written prelims in degree granting program;

Instructor: Kaminsky, Amy K

Description: Student may contact the instructor or department for information.

General Dentistry

15-209 MoosT

GEND 5152 Advanced General Dentistry Seminar II

S-N only, 5-10 credit(s), max credits 10, 1 completion allowed;

Instructor: Gambucci, James Robert

Description: Student may contact the instructor or department for information.

GEND 5255 Advanced General Dentistry Clinic II

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 5262 Advanced General Dentistry Clinical Administration II

S-N only, 5-10 credit(s), max credits 10, 1 completion allowed;

Instructor: Gambucci, James Robert

Description: Student may contact the instructor or department for information.

GEND 5265 Advanced General Dentistry Clinic V

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 6152 General Practice Seminar II

S-N only, 5-10 credit(s), max credits 10, 1 completion allowed;

Instructor: Gambucci, James Robert

Description: Student may contact the instructor or department for information.

GEND 6255 General Practice Clinic II

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 6262 General Practice Clinical Administration II

S-N only, 5-10 credit(s), max credits 10, 1 completion allowed;

Instructor: Gambucci, James Robert

Description: Student may contact the instructor or department for information.

GEND 6265 General Practice Clinic V

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.

Genetics, Cell Biology and Development

6-160 Jackson Hall

GCD 3022 Genetics

3 credit(s); prereq BIOL 1002 or BIOL 1009; Credit will not be granted if credit has been received for: BIOL 4003;
Instructor: Shaw,Jocelyn E
Description: Student may contact the instructor or department for information.

GCD 3022 Genetics

3 credit(s); prereq BIOL 1002 or BIOL 1009; Credit will not be granted if credit has been received for: BIOL 4003;
Instructor: Brooker,Robert James
Description: Student may contact the instructor or department for information.

GCD 4015 Genetics Laboratory

2 credit(s); prereq 3022 or Biol 4003 or BioC 4332;
Instructor: Franco PhD,Peter John
Description: Student may contact the instructor or department for information.

GCD 4015 Genetics Laboratory

2 credit(s); prereq 3022 or Biol 4003 or BioC 4332;
Instructor: Merriman PhD,Peter Jason
Description: Student may contact the instructor or department for information.

GCD 4161 Developmental Biology

3 credit(s); prereq Biol 4003; Concurrent registration is required (or allowed) in BIOL 4004 irecommended;
Instructor: Rougvie,Ann E
Description: This course is intended for upper level undergraduates who have had previous courses in genetics and cell biology and who have an interest in understanding developmental mechanisms. The course will present a comprehensive discussion of developmental biology with emphasis on recent findings, particularly concerning the molecular mechanisms involved. The course will focus on development in model organisms, including nematodes, fruit flies, mice, zebrafish, frogs, and chicks, as well as discussion of human development as appropriate. Students will learn fundamental regulatory mechanisms common to developmental programs in most animals, in addition to understanding the differences that exist among species. Topics to be covered include fertilization, formation of the body plan, sex determination, limb formation, regeneration, and developmental disruptions caused by teratogens. Experimental approaches to development will be emphasized. The textbook utilized will be Scott Gilbert's, "Developmental Biology," 8th edition, 2006. The course is web-enhanced, with a course website, as well as a textbook website (<http://www.devbio.com/>).
Style: 90% Lecture, 10% Discussion.
Grading: 52% mid exam, 34% final exam, 14% problem solving.
Exam Format: Essay, some short answer

GCD 4793W Directed Studies: Writing Intensive

S-N only, 1-7 credit(s), max credits 7, 7 completions allowed;
prereq instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Berry MD,Susan A
Description: Student may contact the instructor or department for information.

GCD 4793W Directed Studies: Writing Intensive

S-N only, 1-7 credit(s), max credits 7, 7 completions allowed;
prereq instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Bolman,R Morton
Description: Student may contact the instructor or department

for information.

GCD 4793W Directed Studies: Writing Intensive

S-N only, 1-7 credit(s), max credits 7, 7 completions allowed;
prereq instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Campbell,Colin R
Description: Student may contact the instructor or department for information.

GCD 4793W Directed Studies: Writing Intensive

S-N only, 1-7 credit(s), max credits 7, 7 completions allowed;
prereq instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Berman,Judith G
Description: Student may contact the instructor or department for information.

GCD 4793W Directed Studies: Writing Intensive

S-N only, 1-7 credit(s), max credits 7, 7 completions allowed;
prereq instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Blumenfeld,Martin
Description: Student may contact the instructor or department for information.

GCD 4793W Directed Studies: Writing Intensive

S-N only, 1-7 credit(s), max credits 7, 7 completions allowed;
prereq instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Brooker,Robert James
Description: Student may contact the instructor or department for information.

GCD 4793W Directed Studies: Writing Intensive

S-N only, 1-7 credit(s), max credits 7, 7 completions allowed;
prereq instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Oetting,William Starr
Description: Student may contact the instructor or department for information.

GCD 4793W Directed Studies: Writing Intensive

S-N only, 1-7 credit(s), max credits 7, 7 completions allowed;
prereq instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: LeRoy,Bonnie S
Description: Student may contact the instructor or department for information.

GCD 4793W Directed Studies: Writing Intensive

S-N only, 1-7 credit(s), max credits 7, 7 completions allowed;
prereq instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Bullard,Kelli M
Description: Student may contact the instructor or department for information.

GCD 4793W Directed Studies: Writing Intensive

S-N only, 1-7 credit(s), max credits 7, 7 completions allowed;
prereq instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Sanderfoot,Anton
Description: Student may contact the instructor or department for information.

GCD 4794W Directed Research: Writing Intensive

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed;
prereq instr consent , dept consent ; Meets CLE req of Writing Intensive;
Instructor: Steer,Clifford John
Description: Student may contact the instructor or department for information.

GCD 4794W Directed Research: Writing Intensive

- S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ; Meets CLE req of Writing Intensive;**
Instructor: Gale MD,Cheryl Ann
Description: Student may contact the instructor or department for information.
- GCD 4794W Directed Research: Writing Intensive**
S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ; Meets CLE req of Writing Intensive;
Instructor: Largaespada,David Andrew
Description: Student may contact the instructor or department for information.
- GCD 4794W Directed Research: Writing Intensive**
S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ; Meets CLE req of Writing Intensive;
Instructor: Fahrenkrug,Scott Christopher
Description: Student may contact the instructor or department for information.
- GCD 4794W Directed Research: Writing Intensive**
S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ; Meets CLE req of Writing Intensive;
Instructor: Schimmenti MD,Lisa A
Description: Student may contact the instructor or department for information.
- GCD 4794W Directed Research: Writing Intensive**
S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ; Meets CLE req of Writing Intensive;
Instructor: Lewis,Michelle
Description: Student may contact the instructor or department for information.
- GCD 4794W Directed Research: Writing Intensive**
S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ; Meets CLE req of Writing Intensive;
Instructor: Herzberg,Mark C
Description: Student may contact the instructor or department for information.
- GCD 4794W Directed Research: Writing Intensive**
S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ; Meets CLE req of Writing Intensive;
Instructor: Bitterman,Peter B
Description: Student may contact the instructor or department for information.
- GCD 4794W Directed Research: Writing Intensive**
S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ; Meets CLE req of Writing Intensive;
Instructor: Simmons,Michael J
Description: Student may contact the instructor or department for information.
- GCD 4794W Directed Research: Writing Intensive**
S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ; Meets CLE req of Writing Intensive;
Instructor: Hays,Tom S
Description: Student may contact the instructor or department for information.
- GCD 4794W Directed Research: Writing Intensive**
S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ; Meets CLE req of Writing Intensive;
Instructor: Ward,John M
Description: Student may contact the instructor or department for information.
- Instructor:** Vallera PhD,Daniel A.
Description: Student may contact the instructor or department for information.
- GCD 4794W Directed Research: Writing Intensive**
S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ; Meets CLE req of Writing Intensive;
Instructor: Fan,David P
Description: Student may contact the instructor or department for information.
- GCD 4794W Directed Research: Writing Intensive**
S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ; Meets CLE req of Writing Intensive;
Instructor: Kuriyama,Ryoko
Description: Student may contact the instructor or department for information.
- GCD 4794W Directed Research: Writing Intensive**
S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ; Meets CLE req of Writing Intensive;
Instructor: Hering,Bernhard J.
Description: Student may contact the instructor or department for information.
- GCD 4794W Directed Research: Writing Intensive**
S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ; Meets CLE req of Writing Intensive;
Instructor: Goldstein,Stuart F
Description: Student may contact the instructor or department for information.
- GCD 4794W Directed Research: Writing Intensive**
S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ; Meets CLE req of Writing Intensive;
Instructor: Dayton,William R
Description: Student may contact the instructor or department for information.
- GCD 4794W Directed Research: Writing Intensive**
S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ; Meets CLE req of Writing Intensive;
Instructor: Hamilton,David W
Description: Student may contact the instructor or department for information.
- GCD 4794W Directed Research: Writing Intensive**
S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ; Meets CLE req of Writing Intensive;
Instructor: Hackett Jr,Perry B
Description: Student may contact the instructor or department for information.
- GCD 4794W Directed Research: Writing Intensive**
S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ; Meets CLE req of Writing Intensive;
Instructor: Chen,Wei
Description: Student may contact the instructor or department for information.
- GCD 4794W Directed Research: Writing Intensive**
S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ; Meets CLE req of Writing Intensive;
Instructor: Ward,John M
Description: Student may contact the instructor or department for information.

GCD 4794W Directed Research: Writing Intensive

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ; Meets CLE req of Writing Intensive;

Instructor: Marchant,Jonathan S

Description: Student may contact the instructor or department for information.

for information.

GCD 4993 Directed Studies

S-N only, 1-7 credit(s), max credits 7, 7 completions allowed; prereq instr consent, dept consent;

Instructor: Blumenfeld,Martin

Description: Student may contact the instructor or department for information.

GCD 4794W Directed Research: Writing Intensive

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ; Meets CLE req of Writing Intensive;

Instructor: Clarke,Duncan John

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; prereq instr consent, dept consent;

Instructor: Brooker,Robert James

Description: Student may contact the instructor or department for information.

GCD 4794W Directed Research: Writing Intensive

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ; Meets CLE req of Writing Intensive;

Instructor: Kaufman,Dan S.

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; prereq instr consent, dept consent;

Instructor: Bullard,Kelli M

Description: Student may contact the instructor or department for information.

GCD 4794W Directed Research: Writing Intensive

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ; Meets CLE req of Writing Intensive;

Instructor: Selleck,Scott B

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Steer,Clifford John

Description: Student may contact the instructor or department for information.

GCD 4794W Directed Research: Writing Intensive

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ; Meets CLE req of Writing Intensive;

Instructor: Koepp,Deanna

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Olszewski,Neil 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; prereq instr consent , dept consent ; Meets CLE req of Writing Intensive;

Instructor: Papas,Klearchos K

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Kren,Betsy Jean

Description: Student may contact the instructor or department for information.

GCD 4794W Directed Research: Writing Intensive

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ; Meets CLE req of Writing Intensive;

Instructor: Greenstein,David I.

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Largaespada,David Andrew

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; prereq instr consent, dept consent;

Instructor: Ahrens,Mary Jarvis

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Neufeld,Thomas Peter

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; prereq instr consent, dept consent;

Instructor: Bolman,R Morton

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Bowles,Walter Ray

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; prereq instr consent, dept consent;

Instructor: Campbell,Colin R

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Stupar,Robert M

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Porter,Mary E

Description: Student may contact the instructor or department for information.

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Mickelson,James R

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Campbell,Colin R

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Jardine,Paul James

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Simon,Jeffrey A

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Hering,Bernhard J.

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Berman,Judith G

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Schottel,Janet L

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Zarkower,David A

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Stephens,David William

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Simmons,Michael J

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Rice,Stephen Anthony

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Jemmerson,Ronald R

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Heimpel,George Eugene

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Brooker,Robert James

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Low,Walter Cheney

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Young,Nevin Dale

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Fiol,Miguel E

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Petzel PhD,Sue V.

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Petryk,Anna

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Wei,Li-Na

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Sachdev,Deepali

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Kirkpatrick,David T

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Bohjanen,Paul R

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Davis,Dana

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Khodursky,Arkady B

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Chen,Lihsia

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Koepp,Deanna

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Harris,Reuben

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Benyumov,Alexey

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Fleischmann,William Robert

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Firpo,Meri

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Galnick,Jeffrey A

Description: Student may contact the instructor or department

for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Mashek,Douglas

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Bereiter,David A

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Greenstein,David I.

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Huang,Haojie

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Gammill,Laura Susan

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Divani,Afshin Andre

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Dehm,Scott M

Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ;

Instructor: Kawakami,Yasuhiko

Description: Student may contact the instructor or department for information.

GCD 5036 Molecular Cell Biology

3 credit(s); prereq Biol 4004 or instr consent; [sr or grad student] recommended;

Instructor: STAFF

Description: Student may contact the instructor or department for information.

GCD 8103 Human Histology

5 credit(s); prereq Undergraduate biology, chemistry, math, and physics course; instr consent; Credit will not be granted if credit has been received for: GCD 6103;

Instructor: Norrander PhD,Jan Marie

Description:

Style: 50% Lecture, 50% Laboratory.

Grading: 44% mid exam, 44% final exam, 12% quizzes.

GCD 8151 Cell Structure and Function

3 credit(s); prereq [[4034 or 8121 or BioC 8002], Biol 4004] or BMBB or MCDB&G, instr consent;

Instructor: Titus, Margaret A

Description: Student may contact the instructor or department for information.

A-F only, 3 credit(s); prereq MCDG MS student with genetic counseling specialization or instr consent;

Instructor: Bartels, Dianne Mary

Description: Student may contact the instructor or department for information.

GCD 8171 Literature Analysis

A-F only, 2 credit(s); prereq Grad MCDG major;

Instructor: Shaw, Jocelyn E

Description: Student may contact the instructor or department for information.

GCD 8920 Special Topics

1-4 credit(s), max credits 8, 8 completions allowed; prereq Grad MCDG major or instr consent;

Instructor: LeRoy, Bonnie S

Description: Student may contact the instructor or department for information.

GCD 8181 Stem Cell Biology

3 credit(s); prereq [[4034 or 8121 or BIOC 8002], [4161 or 8161]] or instr consent ;

Instructor: Slack, Jonathan M W

Description: Stem Cell Biology GCD 8181 Course objectives: The course aims to provide beginning graduate students with an overview of stem cell biology. It will cover the biology of embryonic and adult stem cells, and be based on principles of developmental biology. Although primarily a biological science course it will include brief consideration of the ethical and legal aspects of embryonic stem cells, and some examples of clinical applications of cell therapy. Students will be expected to read primary research literature. Course topics: Embryonic stem cells; biochemistry of pluripotency; neural and hematopoietic stem cells; cell production and renewal in muscle, kidney and pancreas; limb regeneration. Ethical and legal issues raised by embryonic stem cell work; clinical cell therapy in selected areas. Course director: Dr Jonathan Slack. Because this is a team taught course, the director will ensure that the content is cohesive and non-redundant. Contact Jonathan Slack at slack017@umn.edu for further information.

Style: 80% Lecture, 20% Student Presentation. Students are expected to spend approximately 6 hours per week outside the classroom reading and analysing papers and preparing their presentation. Up to 11 sessions will be devoted to student presentations focusing on recent research papers.

Grading: 65% final exam, 35% in-class presentation. Evaluation will be based on performance in the class discussion/presentation (35%), and a final exam (65%).

Exam Format: Written, take-home exam with 3 questions chosen from a list of about 10. Exam questions will assess the student's ability to critically analyze and interpret experimental data and to propose further experiments relating to a specific project.

GCD 8993 Directed Studies

1-5 credit(s), max credits 15, 15 completions allowed; prereq MCDG MS student with genetic counseling specialization or instr consent ;

Instructor: LeRoy, Bonnie S

Description: Student may contact the instructor or department for information.

GCD 8994 Research

S-N only, 1-5 credit(s), max credits 20, 20 completions allowed; prereq MCDG MS student with genetic counseling specialization or instr consent ;

Instructor: LeRoy, Bonnie S

Description: Student may contact the instructor or department for information.

Geographic Information Science 414 Social Science Building

GIS 5530 GIS Internship

S-N only, 1-3 credit(s), max credits 6; prereq instr consent , strong GIS/mapping skills;

Instructor: McMaster, Susanna Akiko

Description: Student may contact the instructor or department for information.

GIS 5555 Basic Spatial Analysis

3 credit(s); prereq [Stat 3001 or equiv, MGIS student] or instr consent;

Instructor: Manson, Steven M.

Description: Subject. Spatial analysis is used to understand a range of human and environmental systems, their patterns and dynamics, and their interactions with the broader world. Students. Students in this course have tended to come from across the social, natural, and information sciences with no clear majority in any one area. This distribution makes for a lively and challenging meeting of the minds. The course is oriented towards Masters, MGIS, or PhD students. Advanced undergraduates are invited to speak with the instructor to determine if they would find the course appropriate to their educational goals. Purpose. This course expands on aspects of GISc and statistics covered by previous courses. It is designed to give hands-on experience with advanced methods in geographic, spatial, and statistical research. Goals. Students who successfully complete this course will be able to use a range of spatial analysis tools to explore the patterns and dynamics of almost any problem that has a spatial element. Depending on student orientation, this course can be used to gain insight into the technical underpinnings of introductory spatial analysis, complement on-going research, or provide an applied focus for research or policy. Prior experience. Students should be proficient in GIS, basic mathematics, and standard statistical methodology including descriptive statistics and bivariate regression. As noted above in the prerequisites, this translates into having at least one statistics course and the Principles of GIS course or its equivalent. Students without this experience fare poorly in this course. Structure. This is an intensive hands-on class with a focus on reading, discussion, and applications. This translates into 30% Lecture, 20% Discussion, 50% Laboratory.

GCD 8213 Selected Topics in Molecular Biology

4 credit(s); prereq 8121 or BioC 8002 or instr consent; **Credit will not be granted if credit has been received for: BIOC 8213;**

Instructor: Hendrickson, Eric A

Description: This course is officially called topics in Molecular Biology. This is deceptive, however. In fact, this is a writing course. This course is designed for 1st year graduate students. Extensive writing assignments will be assigned to help the student learn how to write research articles, grant applications and preliminary written proposals. Learning anything about topics in Molecular Biology is considered a distant second in terms of importance.

GCD 8900 Seminar

S-N only, 1 credit(s), max credits 4, 4 completions allowed; prereq Grad MCDG major or instr consent;

Instructor: Hays, Tom S

Description: Student may contact the instructor or department for information.

GCD 8900 Seminar

S-N only, 1 credit(s), max credits 4, 4 completions allowed; prereq Grad MCDG major or instr consent;

Instructor: Koob, Michael D

Description: Student may contact the instructor or department for information.

GCD 8914 Ethical and Legal Issues in Genetic Counseling

Style: 30% Lecture, 20% Discussion, 50% Laboratory.
Grading: 35% reports/papers, 10% class participation, 55% laboratory evaluation.

10% special projects, 20% class participation.
Exam Format: Mostly essay; some short answer

GIS 5571 ArcGIS I

3 credit(s); prereq [GEOG 5561 or equiv, status in MGIS program, familiarity with computer operating systems] or instr consent ;

Instructor: Lindberg, Mark B

Description: Student may contact the instructor or department for information.

GIS 5573 Desktop Mapping

1.5 credit(s); prereq Geog 5561 or equiv, Geog 3511 or equiv, status in MGIS program or instr consent;

Instructor: Hansen, Catherine Lucia

Description: Student may contact the instructor or department for information.

GIS 5574 GIS and the Internet

1.5 credit(s); prereq Geog 5561 or equiv, status in MGIS program or instr consent;

Instructor: Fischer, Brian Charles

Description: Student may contact the instructor or department for information.

GIS 8501 Survey of Geographic Information Science: Past, Present, and Future Trends and Activities

3 credit(s); prereq MGIS student or instr consent;

Instructor: McMaster, Susanna Akiko

Description: Student may contact the instructor or department for information.

GIS 8990 MGIS Capstone Project

A-F only, 2-6 credit(s), max credits 6, 3 completions allowed; prereq MGIS, instr consent;

Instructor: McMaster, Susanna Akiko

Description: Student may contact the instructor or department for information.

Geography

414 Social Sciences Building

GEOG 1301W Our Globalizing World

4 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core; meets CLE req of Writing Intensive;

Instructor: Braun, Bruce Philip

Description: Have you wondered how your life is connected to others around the world? Are you curious about the community in which you live and why it has the characteristics it has? Do you wonder about global inequalities in wealth; conflict in Kosovo or the Middle East; or environmental change in the U.S. West? Have you wanted to know why Twin Cities neighborhoods are so different from each other, or why certain spaces are associated with certain groups and activities? Geographers ask these questions and many more. We study how and why people transform the world into concrete places, like cities, farms, nations and neighborhoods, and why these places develop where and as they do. We explore how spaces are produced and how this affects people's lives, locally, nationally and globally. This is an entry level course, designed for first and second year students, introducing what it means to think geographically about the world and about human development. The course supports diverse learning styles, through a combination of lectures, discussion sections, videos, field trips and group work. After taking this class you will see your surroundings in new ways, as you learn to ask why people's lives differ from place to place, how they are interconnected, and whether globalization is making the world smaller and less diverse, or more complex and interesting.

Style: 55% Lecture, 30% Discussion, films/videos

Grading: 25% mid exam, 25% final exam, 20% reports/papers,

GEOG 1403 Biogeography of the Global Garden

4 credit(s); Meets CLE req of Biological Sciences/Lab Core; meets CLE req of Environment Theme;

Instructor: Kipfmüller, 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 1425 Introduction to Meteorology

4 credit(s); prereq High school algebra; Credit will not be granted if credit has been received for: ESPM 1425; Meets CLE req of Environment Theme; meets CLE req of Physical Science/Lab Core;

Instructor: Klink, Katherine

Description: Weather is part of our everyday lives, sometimes memorably so, such as when we experience snowstorms, hurricanes, tornadoes, or heat waves. Our society also is increasingly concerned about environmental issues such as ozone depletion and climate change, which have a fundamental atmospheric component. What do we understand about how the atmosphere works? How might our own actions affect weather and climate? Our goals for this course are to: 1) learn about weather and climate, including the physical laws that govern the atmosphere, the current tools and technologies used to study the atmosphere, and to interpret weather and climate data; 2) experience and gain insight into the nature of science and scientific uncertainty; 3) become better able to evaluate critically scientific questions and claims, especially those concerning the human impacts on the atmosphere; 4) understand the limits to what we know about weather, climate, and climate change; and 5) reflect on our roles and responsibilities as agents of local and global environmental change, especially as related to the atmosphere. ? Goals 1-3 are directly related to the objectives of the Physical Science Core: to learn about key basic concepts and consequences regarding the natural laws, processes, and properties of matter and energy; to use basic research methods such as observation, hypothesis formation/testing, and/or computer simulations; understanding the limits and uncertainty associated with these methods; and to become more informed about the scientific basis of claims about climate and environmental change. ? Goals 3-5 are directly related to the objectives of the Environment Theme: to inform your understanding of the interrelationships between the non-human environment (e.g., the atmosphere) and human society; to introduce you to important underlying scientific principles within environmental issues, particularly as related to the atmosphere; to consider the possibilities and limitations of various technologies, practices, and policies aimed at adapting to, and/or mitigating, the potentially negative impacts of global climate change; and to reflect on our ethical commitments as global citizens on the issue of climate/environmental change. Questions

we will try to answer include: What makes the wind blow? Why don't all clouds produce rain? What causes thunderstorms and tornadoes? How do satellites work? How does El Niño affect the weather in North America? How do you make a weather forecast? Are human activities really affecting the atmosphere? What is the greenhouse effect, and should we be concerned about it? What do we know about climate change? This course fulfills the CLE Physical Science with Lab Core, and the Environment Theme. Prerequisites: Students are expected to be familiar with pre-college algebra (at the level of the standard University entrance requirement).

Style: 60% Lecture, 10% Discussion, 30% Laboratory.

Grading: 25% final exam, 30% additional semester exams, 45% laboratory evaluation.

Exam Format: multiple choice, short answer

GEOG 1905 Freshman Seminar

3 credit(s); prereq freshman;

Instructor: Leitner, Helga

Description: This seminar explores some salient issues of contemporary immigrant America, with the goal of fostering a deeper understanding and more knowledgeable appreciation of the diverse experiences of immigrants to the US; the challenges of living with difference, from the perspective of both immigrants and the majority population; and of future prospects for peaceful co-existence in a multicultural/multiracial United States. Utilizing readings from across the social sciences and humanities, films and videos, and short field trips into Minneapolis neighborhoods, we will attempt to gain insights into diversity of contemporary immigrant experiences and the specific opportunities and challenges they and their children face in making the U.S. their home. We will also examine the contributions that immigrants have made to U.S. society, economy, polity and everyday life, and their reception in our neighborhoods, communities and the nation.

GEOG 1973 Geography of the Twin Cities

3 credit(s); Credit will not be granted if credit has been received for: GEO 1009; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Cultural Diversity Theme;

Instructor: Martin, Judith A

Description: This course is a survey of the historical and contemporary geographical patterns of the Twin Cities metropolitan area. Questions raised include: Where are things located? (industry, transportation, housing, people of diverse backgrounds and resources, retail trade and services) Why are they located as they are? What are things like at the neighborhood level and how have these changed over time? How do economic and demographic forces produce changes on the landscape? How do publicly sponsored planning and redevelopment programs try to correct the consequences of past actions? Class format is lecture and discussion. Questions are encouraged. Visual materials (power-point, overhead transparencies, slides, and occasional videos) will be used extensively. Course materials are the same for Geog 1973 and Geog 3973, but those registered in 3973 are expected to perform at a much higher level of analysis, and this will be reflected in the point scale for assignments. Two large field studies make up the bulk of the work and most of the readings are on E-reserve.

Style: 75% Lecture, 10% Film/Video, 10% Discussion, 5% Small Group Activities.

Grading: 15% mid exam, 25% final exam, 60% reports/papers.

GEOG 3101 Geography of the United States and Canada

4 credit(s); Credit will not be granted if credit has been received for: GEOG 3102; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;

Instructor: Hart, John Fraser

Description: A visual tour of the continent, with ca. 80 slides in each lecture. Emphasis on the ways in which different groups of people have interacted with different physical environments to produce distinctive regions. Satisfies the Social Science Core and Cultural Diversity theme requirements. The instructor has a quirky sense of humor, and the lectures are interesting.

Style: 100% Lecture.

Grading: 60% mid exam, 30% final exam, 10% reports/papers.

Exam Format: Multiple choice based on maps

GEOG 3111 Geography of Minnesota

3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Environment Theme;

Instructor: Squires, Roderick H

Description: Student may contact the instructor or department for information.

GEOG 3111 Geography of Minnesota

3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Environment Theme;

Instructor: Squires, Roderick H

Description: Student may contact the instructor or department for information.

GEOG 3141 Africa

3 credit(s); Credit will not be granted if credit has been received for: AFRO 3141; Meets CLE req of Environment Theme; meets CLE req of International Perspective Theme;

Instructor: STAFF

Description: Geography of Africa introduces students to the human and environmental diversity of Africa, and examines the effects of internal and external forces on the spatial organization of Africa economies and societies. Geographic (case) studies are used to discuss important developmental issues, or changes that reflect modern trends and gender conditions. We examine selected regions and topics or themes in depth rather than to present general profiles of individual nations. This approach highlights the importance of culture in environmental and social change. Handouts (including current news reports), lecture units, slides/video documentaries and class discussions are used to provide the latest information available.

Style: 70% Lecture, 30% Discussion.

Grading: 20% mid exam, 40% final exam, 20% reports/papers, 20% other evaluation. 2 map-based quizzes, 10% each

Exam Format: mixed

GEOG 3161 Europe: A Geographic Perspective

3 credit(s); Credit will not be granted if credit has been received for: GLOS 3921; Meets CLE req of International Perspective Theme; meets CLE req of Social Science Core;

Instructor: Schueth, Sam

Description: Student may contact the instructor or department for information.

GEOG 3371W Cities, Citizens, and Communities

4 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core; meets CLE req of Writing Intensive;

Instructor: Henderson, George Lawlor

Description: This course is about how structures of class, race/ethnicity, gender, and sexuality combine to produce varieties of urban experience in the United States. The course will also deal with why the city--why urbanization as a distinctive process--shapes those social structures in particular ways. The course centers especially on the city as a crucial locus for capitalism and on capitalism as irrevocably a socially made and contested process. It is a hallmark of capitalism that it leads not only to the making of different kinds of urban environments and histories. It also relies upon and fosters social differences. Through discussion, lecture, case study readings (including two books and a variety of articles), and group projects we will try to come to a more layered understanding of what makes the American city tick.

Style: 50% Lecture, 50% Discussion.

Grading: 30% mid exam, 30% final exam, 30% reports/papers, 10% class participation.

Exam Format: Exams are a combination of short answer and long essay.

GEOG 3376 Political Ecology of North America

3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Environment Theme;

Instructor: Cadieux, Kirsten Valentine

Description: This is an interdisciplinary course devoted to

understanding the interconnections of society and environment in the North American context. In the class you will develop ways to think critically about the relation of ecological processes to social, cultural, political, and economic processes, as well as to place, space, and scale. You will learn to see human environments in terms of the biophysical processes that shape and sustain them, and physical environments in terms of the social, political, economic, and legal practices that determine their material form. You will also learn how and why the environment has been politicized in the ways it has, and why environmental change occurs how and where it does in an age of neoliberal capitalism. The course is structured around a series of readings, modules on environmental topics and approaches to them, and case studies taken from different sites across North America, from the movement for alternative agroecologies to the regulation of environmental impacts from changing land uses along the transportation corridor between the Twin Cities and St. Cloud. It will challenge you to develop a thorough understanding of the ecological processes underlying environmental problems, the relation between capital, state, and nature, to understand the different ways that environmental movements have emerged to contest and shape environmental change, and to critically examine the intersections of race, gender, and environment in particular environmental conflicts. The course meets CLE requirements for the Environment theme and the Citizenship/Public Ethics Theme.

GEOG 3377 Music in the City

A-F only, 3 credit(s); Meets CLE req of Cultural Diversity Theme;

Instructor: Saldanha, Arun

Description: Music fills space with meaning. Through music, people feel physically and emotionally connected to landscapes, neighborhoods, and particular buildings. But this also differentiates them from other people. Practices of music reveal the gender, class, and racial relations in American society. This course tries to understand how the connections between sound, place, and social difference emerge 'on the ground?'. Case studies of local, regional, and transnational music scenes in the United States, as well as several field trips and a research project, will enable you to obtain an in-depth sense of the urban geographies of music. Cases include minority music-making in the Twin Cities; Elvis pilgrimage and whiteness in Memphis; Detroit techno and blackness; hiphop and the politics of the 'hood?; illegal warehouse parties in San Francisco; exoticism in 'world? music; the symphony and cultural capital; and the racial and sexual ambivalences of Prince.

Style: 40% Lecture, 15% Film/Video, 15% Discussion, 10% Small Group Activities, 10% Student Presentation, 10% Field Trips. Listening to and discussing music fragments are also part of the lectures.

Grading: 20% final exam, 35% reports/papers, 10% written homework, 20% in-class presentation, 15% class participation.

Exam Format: Essay questions aimed at comprehension and based on a reading.

GEOG 3378 The Third World: Development, poverty, possibility 3 credit(s);

Instructor: Bialostosky, Ivan Julius

Description: Student may contact the instructor or department for information.

GEOG 3381W Population in an Interacting World

4 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core; meets CLE req of Writing Intensive;

Instructor: Bloch, Stefano

Description: Student may contact the instructor or department for information.

GEOG 3388 Going Places: Geographies of Travel and Tourism

A-F only, 0-3 credit(s), max credits 3, 1 completion allowed;

Instructor: Saldanha, Arun

Description: One of the largest industries, tourism reveals that the world is rapidly globalizing. The geography of global tourism shows how it connects economies, ecosystems, and cultures in

new and complex ways. These connections largely follow from deeper economic and technological inequalities, but are also liable to trends and fashions. Important ethical and political demands are posed on tourism policies, whether on the local, national, or global scale, as the environmental and social impacts of tourism have become apparent. This course will also ask how to conceive tourism critically and historically in relation to other kinds of travel, such as migration, colonization, and seasonal work. Investigating the landscapes and media representations of resorts, cities, parks, museums, beaches, etc., we will also understand the exotic sense of place that tourism always entails. The global flows of tourism allow for grasping crucial contemporary debates of the social sciences on consumption, development, identity, and climate change.

Style: 50% Lecture, 15% Film/Video, 20% Discussion, 5% Small Group Activities, 5% Student Presentation, 5% Field Trips.

Grading: 20% final exam, 35% reports/papers, 10% written homework, 20% in-class presentation, 15% class participation.

Exam Format: Essay questions on a case not dealt with in class

GEOG 3411W Geography of Health and Health Care

4 credit(s); Credit will not be granted if credit has been received for: GEOG 5411; Meets CLE req of Environment Theme; meets CLE req of International Perspect Theme; meets CLE req of Writing Intensive;

Instructor: Weil, Connie

Description: This course surveys medical geography, a subdiscipline which encompasses a broad range of geographical work on health and health care. What distinguishes medical geography from the discipline of geography as a whole is its thematic focus on health and health care. It shares with the discipline a remarkable breadth of theoretical approaches, methodologies and sub-themes. In other words, medical geography does not differ from the rest of geography in theory or method. It is distinctive only in subject matter. This course uses medical geographic examples to explore three groups of theoretical approaches in geography: ecological approaches, which systematically analyze relationships between peoples and their environments; spatial approaches, which employ maps and spatial statistics to identify patterns of single and associated variables; and social approaches, including political economy and recent humanist approaches, which address issues related to both space and place. Students in the course are encouraged continually to consider the relationships among research questions, philosophical assumptions, and appropriate methods as well as to question the complementarity and inherent tensions among different theoretical approaches.

Style: 60% Lecture, 20% Discussion. multi-media

GEOG 3431 Plant and Animal Geography

3 credit(s); Credit will not be granted if credit has been received for: GEOG 5431; Meets CLE req of Environment Theme;

Instructor: Ziegler, Susy S

Description: Learn about biogeography as practiced by geographers! In this course we will observe and understand patterns of plant and animal distributions at different scales over both time and space. Readings and discussions focus on evolutionary, ecological, and applied biogeography, with an emphasis on Minnesota. We will cover paleobiogeography; vegetation-environment relationships; vegetation dynamics and disturbance ecology; human impact on plants and animals; and nature conservation. Class format will include lively discussions, group and individual projects, and local field trips.

Style: 50% Lecture, 35% Discussion, 15% Field Trips.

Grading: 25% mid exam, 25% final exam, 35% special projects, 5% quizzes, 10% in-class presentation. Percentages are approximate.

Exam Format: Short answer and essay

GEOG 3531 Numerical Spatial Analysis

4 credit(s); Credit will not be granted if credit has been received for: GEOG 5531;

Instructor: Edsall, Rob

Description: Student may contact the instructor or department for information.

GEOG 3561 Principles of Geographic Information Science**4 credit(s); prereq Jr or sr;****Instructor:** Edsall,Rob**Description:** Student may contact the instructor or department for information.**GEOG 3605W Geographical Perspectives on Planning****4 credit(s); Credit will not be granted if credit has been****received for: GEOG 5605W; Meets CLE req of****Citizenship/Publ Ethics Theme; meets CLE req of****International Perspect Theme; meets CLE req of Writing****Intensive;****Instructor:** Miller,Roger P

Description: Planning is State intervention in the development process, and the ideologies used to justify, influence, and legitimate that intervention. Planning functions at practical, political, and ideological levels. Studying planning involves understanding what was planned, by whom, and for what purposes. This course will introduce students to the historical, political, and economic contexts within which international urban and regional planning evolved. The course will examine the nature of the social problems that called forth various planning solutions, and the new urban and regional geographies produced by those solutions. Readings and discussions will emphasize the ways in which planning strategies and the development of planning institutions differed in a variety of national settings. We will explore the reasons for the marked dissimilarity between European modes of urban and regional planning and their American counterparts, both historically and in contemporary practice. The course will also focus on the major actors in the development of plan-ning, and the groups with whom they were associated, and it will address issues of how planning encourages or discourages citizen participation in controlling the built urban environment and the kinds of activities that occur within it.

GEOG 3900 Topics in Geography**3 credit(s), max credits 9, 3 completions allowed;****Instructor:** Harvey,Francis

Description: Overview (from the syllabus) The information age is with us in many guises. One of the key areas we experience its impact is in the increasing use of geospatial information technologies--everything from cell phone tracking and vehicle navigation to virtual globe mapping. These technologies are often implicit but key technologies in developing the information society. For a number of reasons, our location becomes a key factor in facilitating our interactions with others. As a starting point we can distinguish two sides to this. One of the the most common geospatial information technologies, cell phones with GPS make it harder to get lost, but now the cell phone services are making also it harder to hide. How can we control access to this information? Indeed, the data used to help a cell phone customer figure out where they are can also be used by the government to find out where you have been. Justice department access to this data without probable cause has been an issue in many courts across the nation. The geospatial capabilities of cell phones and other information technologies puts us and society before many questions. What kind of control do we want over these technologies? What kind of control should we have? What kind of rights to privacy should apply to these technologies? What can we even do with these technologies? What are they? In this course, you will examine different types of these technologies and consider a range of applications as you learn about potentials, limits, and concerns about their use and ongoing developments. This course also takes up surveillance, cyberspace, and more common geospatial applications, especially those relying on cell phones. Objectives and Outcomes Digital Planet 1 is organized around a range of topics that lead you to understand four key questions about geospatial information technologies in the information society: what do they involve? how and who uses them? what are the limits of their use? what are concerns about their use?

Style: 20% Lecture, 60% Small Group Activities, 10% Student Presentation, 10% Demonstration.**Grading:** 30% special projects, 50% written homework, 20% class participation.**GEOG 3973 Geography of the Twin Cities****3 credit(s); Credit will not be granted if credit has been received for: GEO 1009; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Cultural Diversity Theme;****Instructor:** Martin,Judith A

Description: This course is a survey of the historical and contemporary geographical patterns of the Twin Cities metropolitan area. Questions raised include: Where are things located?(industry, transportation, housing, people of diverse backgrounds and resources, retail trade and services) Why are they located as they are? What are things like at the neighborhood level and how have these changed over time? How do economic and demographic forces produce changes on the landscape? How do publicly sponsored planning and redevelopment programs try to correct the consequences of past actions? Class format is lecture and discussion. Questions are encouraged. Visual materials (power-point, overhead transparencies, slides, and occasional videos) will be used extensively. Course materials are the same for Geog 1973 and Geog 3973, but those registered in 3973 are expected to perform at a much higher level of analysis, and this will be reflected in the point scale for assignments. Two large field studies make up the bulk of the work and most of the readings are on E-reserve.

Style: 75% Lecture, 10% Film/Video, 10% Discussion, 5% Small Group Activities.**Grading:** 15% mid exam, 25% final exam, 60% reports/papers.**GEOG 3985V Honors Senior Project Seminar****4 credit(s); prereq Honors, instr consent; Meets CLE req of Writing Intensive;****Instructor:** Hart,John Fraser**Description:** Student may contact the instructor or department for information.**GEOG 3985W Senior Project Seminar****4 credit(s); prereq [jr or sr], instr consent; Meets CLE req of Writing Intensive;****Instructor:** Hart,John Fraser**Description:** Student may contact the instructor or department for information.**GEOG 4001 Modes of Geographic Inquiry****4 credit(s);****Instructor:** Henderson,George Lawlor

Description: This is an exciting "ways of knowing" course, applicable to Geography but also to the social sciences, sciences, and humanities more generally. In the course we explore why the geographical interrelatedness of phenomena (e.g. places, people, social, economic, and natural processes) means we need to understand those phenomena from an integrated perspective. We will see, however, that this is not enough: We need to understand that there are profoundly different ways of achieving integrated understandings and that every "integrated" understanding has its blindspots. To do this work we will focus on the topic of "Oil" as an especially important intersection of geography, geology, human history, politics, and more.

Style: 50% Lecture, 50% Discussion.**Grading:** 30% mid exam, 30% final exam, 30% reports/papers, 10% class participation.**Exam Format:** Combined short answer and essay format**GEOG 4121W Latin America****4 credit(s); Credit will not be granted if credit has been received for: LAS 4121W; Meets CLE req of Environment Theme; meets CLE req of International Perspect Theme; meets CLE req of Writing Intensive;****Instructor:** Weil,Connie**Description:** Student may contact the instructor or department for information.**GEOG 4700 Community Service Learning****1-3 credit(s), max credits 6, 6 completions allowed; prereq Concurrent enrollment in a Geog course that has community service learning as a component; Meets CLE req of Citizenship/Publ Ethics Theme;**

Instructor: Weil, Connie

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.

Style: 50% Lecture. field trips

Grading: 100% reports/papers.

Exam Format: no exam

GEOG 5431 Plant and Animal Geography

3 credit(s); Credit will not be granted if credit has been received for: GEOG 3431; Meets CLE req of Environment Theme;

Instructor: Ziegler, Susy S

Description: This course is an introduction to bio-geography as practiced by geographers. The focus is on observing and understanding the patterns of plant and animal distributions at different scales over both time and space. Readings and discussions focus on evolutionary, ecological, and applied bio-geography. Specific topics covered include paleobiogeography; vegetation-environment relationships; vegetation dynamics and disturbance ecology; human impact on plants and animals; and nature conservation. Class format will include lively discussions, group and individual projects, and local field trips.

GEOG 5531 Numerical Spatial Analysis

4 credit(s); Credit will not be granted if credit has been received for: GEOG 3531;

Instructor: Edsall, Rob

Description: Student may contact the instructor or department for information.

GEOG 5561 Principles of Geographic Information Science

4 credit(s); prereq grad;

Instructor: Edsall, Rob

Description: Student may contact the instructor or department for information.

GEOG 5562 Geographic Information Science and Analytical Cartography

3 credit(s); prereq GIS 5571 or instr consent ;

Instructor: Lindberg, Mark B

Description: Student may contact the instructor or department for information.

GEOG 5605W Geographical Perspectives on Planning

4 credit(s); prereq Grad student or instr consent; Credit will not be granted if credit has been received for: GEOG 3605W; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of International Perspect Theme; meets CLE req of Writing Intensive;

Instructor: Miller, Roger P

Description: Planning is State intervention in the development process, and the ideologies used to justify, influence, and legitimate that intervention. Planning functions at practical, political, and ideological levels. Studying planning involves understanding what was planned, by whom, and for what purposes. This course will introduce students to the historical, political, and economic contexts within which international urban

and regional planning evolved. The course will examine the nature of the social problems that called forth various planning solutions, and the new urban and regional geographies produced by those solutions. Readings and discussions will emphasize the ways in which planning strategies and the development of planning institutions differed in a variety of national settings. We will explore the reasons for the marked dissimilarity between European modes of urban and regional planning and their American counterparts, both historically and in contemporary practice. The course will also focus on the major actors in the development of planning, and the groups with whom they were associated, and it will address issues of how planning encourages or discourages citizen participation in controlling the built urban environment and the kinds of activities that occur within it.

GEOG 8001 Problems in Geographic Thought

A-F only, 3 credit(s);

Instructor: Miller, Roger P

Description: Student may contact the instructor or department for information.

GEOG 8102 Proseminar: The State, the Economy, and Spatial Development

3 credit(s); prereq instr consent;

Instructor: Leitner, Helga

Description: Student may contact the instructor or department for information.

GEOG 8230 Theoretical Geography

3 credit(s); prereq instr consent;

Instructor: Saldanha, Arun

Description: Few students of the city, colonialism, or violence can escape at some point addressing the question of race. As a system of classifying and segregating bodies, race pops up even when we think we are studying something else. Obviously there is biological variation within the human species, but exactly why this variation has become so insidiously political is a difficult problematic, shaking up any attempt at disciplining academic boundaries. This graduate seminar seeks to investigate the conceptual intricacies of the becoming-political of human life, of biopolitics. ? This fall, emphasis will be given to the intersections of theorizations of biopolitics and race with feminist theory, since the latter has for decades been at the forefront of conceiving the politicization of biology. What can feminist theory ? itself diverse and dynamic ? teach us for thinking race as a material process of sexual, laboring, violent, migrating bodies? The course understands the politicization of phenotypic differences to be a planetary process, to a large extent determined by European colonization involving bodies and desires positioned in particular places and inequalities. It is however also entirely contingent, and thus changeable by anticacist politics and research. Meets Thursdays, 12.20-3.00. Place TBA (West Bank) Workload: 80-150pp. reading/week; two 4-page reading reports; 20-page research paper

GEOG 8292 Seminar in GIS: Spatial Analysis and Modeling

3 credit(s); prereq 3511 [or equiv statistics course], [3561 or 5561 or equiv intro GIS course] or instr consent ;

Instructor: Manson, Steven M.

Description: Overview. Spatial analysis and modeling involves the use of mathematical and computational methods in conjunction with spatial data to explore human and environmental systems. This course is a standard seminar focussed on readings, a student-led presentations, and a final paper. Subject. Spatial analysis and modeling involves the use of mathematical and computational methods in conjunction with spatial data to explore human and environmental systems. Students. Students in this course come from across the social, natural, and information sciences with no clear majority in any one area. Disciplines represented range from conservation biology and ecology to anthropology and geography to bioinformatics and computer science to veterinary science, public health, and public policy. This distribution makes for a lively meeting of the minds. The course is oriented towards MGIS, Masters, or PhD students. Purpose. This course expands

on aspects of GIS, statistics, and modeling covered by introductory or advanced GIS classes. It provides an overview of a variety of techniques used in spatial analysis and modeling, not only examining their technical nature but also their larger conceptual dimensions and societal ramifications. Goals. Students who successfully complete this course will better understand a number of spatial analysis and modeling approaches. Depending on student orientation, this course can be used to gain insight into the technical underpinnings of spatial analysis for use on the job, complement on-going research in statistics and modeling, or give essential background knowledge on methodological, theoretical, and policy dimensions of spatial analysis. Prerequisites. In keeping with the prerequisites, students should be proficient in GIS. Students may also find it helpful, but not necessary, to have some background in statistics, calculus, and probability theory. Structure. This is an intensive seminar focused on reading and discussion in class and an independent project conducted outside of class meetings. This is a classic graduate seminar and there is no direct instruction offered in GIS software or spatial analysis tools. This course has a substantial reading load, student-led presentations, and a literature review project that balances synthesis and research. Regular participation in class discussion is essential to a successful learning experience.

Style: 70% Discussion, 30% Student Presentation.

Grading: 64% reports/papers, 17% attendance, 17% in-class presentation. See course website for more information.

GEOG 8302 Research Development

S-N only, 3 credit(s); prereq instr consent;

Instructor: Samatar,Abdi Ismail

Description: Student may contact the instructor or department for information.

GEOG 8405 Seminar: Graduate Student Professional Development

S-N only, 1 credit(s), max credits 2; prereq Geography grad student;

Instructor: Klink,Katherine

Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings

1-5 credit(s), max credits 10; prereq dept consent ;

Instructor: Adams,John S

Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings

1-5 credit(s), max credits 10; prereq dept consent ;

Instructor: Martin,Judith A

Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings

1-5 credit(s), max credits 10; prereq dept consent ;

Instructor: Lindberg,Mark B

Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings

1-5 credit(s), max credits 10; prereq dept consent ;

Instructor: Leitner,Helga

Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings

1-5 credit(s), max credits 10; prereq dept consent ;

Instructor: Mc Master,Robert B

Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings

1-5 credit(s), max credits 10; prereq dept consent ;

Instructor: Hart,John Fraser

Description: Student may contact the instructor or department

for information.

GEOG 8970 Directed Readings

1-5 credit(s), max credits 10; prereq dept consent ;

Instructor: Gersmehl,Philip J

Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings

1-5 credit(s), max credits 10; prereq dept consent ;

Instructor: Miller,Roger P

Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings

1-5 credit(s), max credits 10; prereq dept consent ;

Instructor: Brown,Dwight A

Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings

1-5 credit(s), max credits 10; prereq dept consent ;

Instructor: Samatar,Abdi Ismail

Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings

1-5 credit(s), max credits 10; prereq dept consent ;

Instructor: Klink,Katherine

Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings

1-5 credit(s), max credits 10; prereq dept consent ;

Instructor: Weil,Connie

Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings

1-5 credit(s), max credits 10; prereq dept consent ;

Instructor: Sheppard,Eric

Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings

1-5 credit(s), max credits 10; prereq dept consent ;

Instructor: Squires,Roderick H

Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings

1-5 credit(s), max credits 10; prereq dept consent ;

Instructor: Skaggs,Richard H

Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings

1-5 credit(s), max credits 10; prereq dept consent ;

Instructor: Till,Karen E

Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings

1-5 credit(s), max credits 10; prereq dept consent ;

Instructor: Braun,Bruce Philip

Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings

1-5 credit(s), max credits 10; prereq dept consent ;

Instructor: Gidwani,Vinay Krishin

Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings

1-5 credit(s), max credits 10; prereq dept consent ;
Instructor: Ziegler,Susy S
Description: Student may contact the instructor or department for information.

Instructor: Martin,Judith A
Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings

1-5 credit(s), max credits 10; prereq dept consent ;
Instructor: McMaster,Susanna Akiko
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography

1-5 credit(s), max credits 10; prereq dept consent ;
Instructor: Lindberg,Mark B
Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings

1-5 credit(s), max credits 10; prereq dept consent ;
Instructor: Harvey,Francis
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography

1-5 credit(s), max credits 10; prereq dept consent ;
Instructor: Leitner,Helga
Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings

1-5 credit(s), max credits 10; prereq dept consent ;
Instructor: Henderson,George Lawlor
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography

1-5 credit(s), max credits 10; prereq dept consent ;
Instructor: Mc Master,Robert B
Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings

1-5 credit(s), max credits 10; prereq dept consent ;
Instructor: Manson,Steven M.
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography

1-5 credit(s), max credits 10; prereq dept consent ;
Instructor: Hart,John Fraser
Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings

1-5 credit(s), max credits 10; prereq dept consent ;
Instructor: Shuman,Bryan Nolan
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography

1-5 credit(s), max credits 10; prereq dept consent ;
Instructor: Gersmehl,Philip J
Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings

1-5 credit(s), max credits 10; prereq dept consent ;
Instructor: Kipfmueller,Kurt
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography

1-5 credit(s), max credits 10; prereq dept consent ;
Instructor: Miller,Roger P
Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings

1-5 credit(s), max credits 10; prereq dept consent ;
Instructor: Saldanha,Arun
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography

1-5 credit(s), max credits 10; prereq dept consent ;
Instructor: Brown,Dwight A
Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings

1-5 credit(s), max credits 10; prereq dept consent ;
Instructor: Kayzar,Brenda
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography

1-5 credit(s), max credits 10; prereq dept consent ;
Instructor: Samatar,Abdi Ismail
Description: Student may contact the instructor or department for information.

GEOG 8980 Topics in Geography

1-3 credit(s), max credits 15, 10 completions allowed; prereq instr consent ;
Instructor: Braun,Bruce Philip
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography

1-5 credit(s), max credits 10; prereq dept consent ;
Instructor: Klink,Katherine
Description: Student may contact the instructor or department for information.

GEOG 8980 Topics in Geography

1-3 credit(s), max credits 15, 10 completions allowed; prereq instr consent ;
Instructor: Harvey,Francis
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography

1-5 credit(s), max credits 10; prereq dept consent ;
Instructor: Weil,Connie
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography

1-5 credit(s), max credits 10; prereq dept consent ;
Instructor: Adams,John S
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography

1-5 credit(s), max credits 10; prereq dept consent ;
Instructor: Sheppard,Eric
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography

1-5 credit(s), max credits 10; prereq dept consent ;

GEOG 8990 Research Problems in Geography

1-5 credit(s), max credits 10; prereq dept consent ;
Instructor: Squires,Roderick H
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
 1-5 credit(s), max credits 10; prereq dept consent ;
Instructor: Skaggs,Richard H
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
 1-5 credit(s), max credits 10; prereq dept consent ;
Instructor: Till,Karen E
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
 1-5 credit(s), max credits 10; prereq dept consent ;
Instructor: Braun,Bruce Philip
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
 1-5 credit(s), max credits 10; prereq dept consent ;
Instructor: Gidwani,Vinay Krishin
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
 1-5 credit(s), max credits 10; prereq dept consent ;
Instructor: Ziegler,Susy S
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
 1-5 credit(s), max credits 10; prereq dept consent ;
Instructor: McMaster,Susanna Akiko
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
 1-5 credit(s), max credits 10; prereq dept consent ;
Instructor: Harvey,Francis
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
 1-5 credit(s), max credits 10; prereq dept consent ;
Instructor: Henderson,George Lawlor
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
 1-5 credit(s), max credits 10; prereq dept consent ;
Instructor: Manson,Steven M.
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
 1-5 credit(s), max credits 10; prereq dept consent ;
Instructor: Shuman,Bryan Nolan
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
 1-5 credit(s), max credits 10; prereq dept consent ;
Instructor: Kipfmueller,Kurt
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
 1-5 credit(s), max credits 10; prereq dept consent ;
Instructor: Saldanha,Arun
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
 1-5 credit(s), max credits 10; prereq dept consent ;
Instructor: Kayzar,Brenda

Description: Student may contact the instructor or department for information.

Geological Engineering

122 Civil & Mineral Engineering

GEOE 3301 Soil Mechanics I
 A-F only, 3 credit(s); prereq IT student, AEM 3031; Credit will not be granted if credit has been received for: CE 3301;
Instructor: Detournay,Emmanuel Michel
Description: Student may contact the instructor or department for information.

GEOE 3301 Soil Mechanics I
 A-F only, 3 credit(s); prereq IT student, AEM 3031; Credit will not be granted if credit has been received for: CE 3301;
Instructor: Detournay,Emmanuel Michel
Description: Student may contact the instructor or department for information.

GEOE 4102W Capstone Design
 A-F only, 4 credit(s); prereq CE 4301, CE 4401, CE 4501, CE 4502; Meets CLE req of Writing Intensive;
Instructor: Eickenberg,Paul Thomas
Description: Teams of 3 - 5 students solve civil engineering problems posed by practicing engineers (mentors). Student work progresses from problem description and formulation of objectives, through conceptual solutions, preliminary planning and analysis, design and environmental impact assessment, to feasibility plans and specifications, cost analysis, and recommendations. Each team makes three presentations. Draft reports and a final project report are reviewed.
Style: 5% Lecture, 10% Discussion, 50% Small Group Activities, 20% Student Presentation, 10% Demonstration, 5% Guest Speakers. Team work on an engineering project
Grading: 60% reports/papers, 5% attendance, 30% in-class presentation, 5% class participation.

GEOE 4301 Soil Mechanics II
 A-F only, 3 credit(s); prereq Upper division student in IT; 3301, CE 3301, or instr consent; Credit will not be granted if credit has been received for: CE 4301;
Instructor: Guzina,Bojan B
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: Detournay,Emmanuel Michel
Description: Student may contact the instructor or department for information.

GEOE 8351 Advanced Groundwater Mechanics I
 A-F only, 3 credit(s); prereq CE 4351, IT grad student or instr consent; Credit will not be granted if credit has been received for: CE 8351;
Instructor: Strack PhD,Otto D
Description: Student may contact the instructor or department for information.

Geology and Geophysics

106 Pillsbury Hall

GEO 1001 Earth and Its Environments
 4 credit(s); Meets CLE req of Environment Theme; meets CLE req of Physical Science/Lab Core;
Instructor: Kleinspehn,Karen L
Description: Student may contact the instructor or department

for information.

GEO 1001 Earth and Its Environments

4 credit(s); Meets CLE req of Environment Theme; meets CLE req of Physical Science/Lab Core;

Instructor: Kirkby, Kent Charles

Description: An introduction to the principles of geology with an emphasis on the physical processes that shape the Earth. Through lectures, slides, videos, and demonstrations, students learn how volcanoes, earthquakes, plate tectonics, wind, rivers, and glaciers have shaped our planet's landscape. In the laboratory sessions students learn to identify rocks and minerals, use them to interpret the Earth's past history, and understand how they affect our society. They will create geologic maps; locate earthquakes and choose environmentally sound landfill sites. A major goal of the course is to provide students with a better understanding of our planet in the context of current environmental issues and global change. GEO 1001 satisfies the Diversified Core Curriculum's requirements for both the environmental theme and as a physical science with lab. This course is designed for undergraduate students that are not geology majors. There are no college prerequisites. During the fall and spring semesters there is an optional Saturday field trip to the St. Croix River Valley and other local geologic sites.

Style: 55% Lecture, 40% Laboratory. Video

Grading: 45% mid exam, 20% final exam, 10% reports/papers, 25% laboratory evaluation.

Exam Format: Mid-term: Multiple choice, short answer/short essay Final: Multiple choice only.

GEO 1001 Earth and Its Environments

4 credit(s); Meets CLE req of Environment Theme; meets CLE req of Physical Science/Lab Core;

Instructor: Teyssier, Christian

Description: Student may contact the instructor or department for information.

GEO 1001 Earth and Its Environments

4 credit(s); Meets CLE req of Environment Theme; meets CLE req of Physical Science/Lab Core;

Instructor: Stout, James H

Description: Student may contact the instructor or department for information.

GEO 1006 Oceanography

4 credit(s); Credit will not be granted if credit has been received for: GEO 5006; Meets CLE req of Environment Theme; meets CLE req of Physical Science/Lab Core;

Instructor: Seyfried Jr, William E

Description: Welcome to Oceanography! Although the oceans surround us, in many ways they remain more mysterious than the surface of the Moon. The world oceans include the deepest places and the largest mountains on earth, a dynamic and ever-changing pattern of waves, tides, and currents, and an array of unfamiliar creatures that live in a three-dimensional solution of life-sustaining chemical nutrients. In the short space of a semester, this course will try to provide at least a flavor of this complex and fascinating part of our world. We start with the nature of the ocean basins: their physical structure and evolution. We then examine the linkage between the evolution of the Earth and the formation of the oceans, and explore why and how seawater is what it is. Recently discovered spectacular geysers of hot seawater issuing from vents on the ocean floor, not only help to regulate seawater chemistry, but provide a unique environment for unusual microbial species, which serve as the base of the food chain for a diverse community of organisms. Next, we consider the dynamics of the great water masses, currents like the Gulf Stream, and the waves and tides that directly affect the lives of people on and near the sea. We then examine biological production and decomposition of organic matter and how they control nutrient distributions. The course ends with a look at how oceans and climate have evolved over time and where we may be headed in the future. Throughout the course, we emphasize ways in which the oceans directly affect humankind. Some examples include ocean-atmosphere interactions, which account for the El Niño phenomenon that has

such a profound affect on global weather patterns and the human condition on Earth; tsunamis, which can influence people's lives in virtually all coastal communities; coastal storms and the effects they produce; and the oceans and global warming. We also work on questions of marine policy, fishing, and marine mineral resources from the perspectives of human impacts.

Style: 55% Lecture, 40% Laboratory, 5% Small Group Activities.

Grading: 25% final exam, 42% quizzes, 33% laboratory evaluation.

GEO 1006 Oceanography

4 credit(s); Credit will not be granted if credit has been received for: GEO 5006; Meets CLE req of Environment Theme; meets CLE req of Physical Science/Lab Core;

Instructor: Matsumoto, Katsumi

Description: Welcome to Oceanography! Although the oceans surround us, in many ways they remain more mysterious than the surface of the Moon. The world oceans include the deepest places and the largest mountains on earth, a dynamic and ever-changing pattern of waves, tides, and currents, and an array of unfamiliar creatures that live in a three-dimensional solution of life-sustaining chemical nutrients. In the short space of a semester, this course will try to provide at least a flavor of this complex and fascinating part of our world. We start with the nature of the ocean basins: their physical structure and evolution. We then examine the linkage between the evolution of the Earth and the formation of the oceans, and explore why and how seawater is what it is. Recently discovered spectacular geysers of hot seawater issuing from vents on the ocean floor, not only help to regulate seawater chemistry, but provide a unique environment for unusual microbial species, which serve as the base of the food chain for a diverse community of organisms. Next, we consider the dynamics of the great water masses, currents like the Gulf Stream, and the waves and tides that directly affect the lives of people on and near the sea. We then examine biological production and decomposition of organic matter and how they control nutrient distributions. The course ends with a look at how oceans and climate have evolved over time and where we may be headed in the future. Throughout the course, we emphasize ways in which the oceans directly affect humankind. Some examples include ocean-atmosphere interactions, which account for the El Niño phenomenon that has such a profound affect on global weather patterns and the human condition on Earth; tsunamis, which can influence people's lives in virtually all coastal communities; coastal storms and the effects they produce; and the oceans and global warming. We also work on questions of marine policy, fishing, and marine mineral resources from the perspectives of human impacts.

Style: 80% Lecture, 10% Film/Video, 10% Guest Speakers.

Grading: 25% final exam, 42% quizzes, 33% laboratory evaluation.

Exam Format: Multiple choice

GEO 1101 Introduction to Geology

3 credit(s); Credit will not be granted if credit has been received for: GEO 5001; Meets CLE req of Environment Theme;

Instructor: Kleinspehn, Karen L

Description: Student may contact the instructor or department for information.

GEO 1101 Introduction to Geology

3 credit(s); Credit will not be granted if credit has been received for: GEO 5001; Meets CLE req of Environment Theme;

Instructor: Kirkby, Kent Charles

Description:

Style: 95% Lecture. Video

GEO 1101 Introduction to Geology

3 credit(s); Credit will not be granted if credit has been received for: GEO 5001; Meets CLE req of Environment Theme;

Instructor: Teyssier, Christian

Description: Student may contact the instructor or department for information.

GEO 1101 Introduction to Geology

3 credit(s); Credit will not be granted if credit has been received for: GEO 5001; Meets CLE req of Environment Theme;

Instructor: Stout, James H

Description: Student may contact the instructor or department for information.

GEO 1102 Introduction to Earth History

3 credit(s); Credit will not be granted if credit has been received for: GEO 1002;

Instructor: Kirkby, Kent Charles

Description: Designed for undergraduate non-majors GEO 1102, a lecture-based version of GEO 1002, is an introduction to the evolution of Earth systems and life. Throughout the course we trace the development of the present ecosystem through the course of drifting continents, climate change and organic evolution. Along the way, students gain an appreciation of how science works, the interconnections of the Earth's physical and biological components, the fragility of ecosystems and the tenacity of life. The origin of life; causes of mass extinctions; and such major transitions as the rise of eukaryotes, multi-cellular life, and colonization of the land; furnish excellent opportunities to examine how scientific controversies are resolved. An exploration of past cosmologies also provides alternate views of the Earth and an appreciation for how societal views impact scientific investigation. A critical course goal is to provide students with a better understanding of the Earth's nature: how it works, how it has evolved, and how human activity has affected it. Students can become reacquainted with a world in which mammoths still lived while early Egyptian pyramids were built; and in which a combination of human hunting, agriculture, and natural climate change has resulted in extinctions whose scale rivals that of past mass extinction events.

Style: 85% Lecture, 15% Discussion.

Grading: 100% quizzes. grade is based on best 5 of 7 biweekly quizzes and final quiz

Exam Format: multiple choice and short essay

GEO 1106 Oceanography

3 credit(s); Credit will not be granted if credit has been received for: GEO 1006;

Instructor: Seyfried Jr, William E

Description: Welcome to Oceanography! Although the oceans surround us, in many ways they remain more mysterious than the surface of the Moon. The world oceans include the deepest places and the largest mountains on earth, a dynamic and ever-changing pattern of waves, tides, and currents, and an array of unfamiliar creatures that live in a three-dimensional solution of life-sustaining chemical nutrients. In the short space of a semester, this course will try to provide at least a flavor of this complex and fascinating part of our world. We start with the nature of the ocean basins: their physical structure and evolution. We then examine the linkage between the evolution of the Earth and the formation of the oceans, and explore why and how seawater is what it is. Recently discovered spectacular geysers of hot seawater issuing from vents on the ocean floor, not only help to regulate seawater chemistry, but provide a unique environment for unusual microbial species, which serve as the base of the food chain for a diverse community of organisms. Next, we consider the dynamics of the great water masses, currents like the Gulf Stream, and the waves and tides that directly affect the lives of people on and near the sea. We then examine biological production and decomposition of organic matter and how they control nutrient distributions. The course ends with a look at how oceans and climate have evolved over time and where we may be headed in the future. Throughout the course, we emphasize ways in which the oceans directly affect humankind. Some examples include ocean-atmosphere interactions, which account for the El Niño phenomenon that has such a profound affect on global weather patterns and the human condition on Earth; tsunamis, which can influence people's lives in virtually all coastal communities; coastal storms

and the effects they produce; and the oceans and global warming. We also work on questions of marine policy, fishing, and marine mineral resources from the perspectives of human impacts.

Style: 95% Lecture, 5% Small Group Activities.

Grading: 38% final exam, 62% quizzes.

Exam Format: Short answer, multiple choice

GEO 1106 Oceanography

3 credit(s); Credit will not be granted if credit has been received for: GEO 1006;

Instructor: Matsumoto, Katsumi

Description: Student may contact the instructor or department for information.

GEO 1901 Freshman Seminar: Environment: Geology and Civilization

A-F only, 3 credit(s), max credits 6; prereq freshman; Meets CLE req of Environment Theme;

Instructor: Whitney, Donna L

Description: Student may contact the instructor or department for information.

GEO 1901 Freshman Seminar: Environment: Polar Environments: Rocks, Ice, and Human Impact

A-F only, 3 credit(s), max credits 6; prereq freshman; Meets CLE req of Environment Theme;

Instructor: Teyssier, Christian

Description: Student may contact the instructor or department for information.

GEO 1901 Freshman Seminar: Environment: Geology of Minnesota

A-F only, 3 credit(s), max credits 6; prereq freshman; Meets CLE req of Environment Theme;

Instructor: Thorleifson, Harvey

Description: Student may contact the instructor or department for information.

GEO 2201 Geodynamics I: The Solid Earth

A-F only, 4 credit(s); prereq Concurrent registration is required (or allowed) in Phys 1301 or instr consent ;

Instructor: Moskowitz, Bruce Matthew

Description: Student may contact the instructor or department for information.

GEO 2301 Mineralogy

3 credit(s); prereq concurrent enrollment in Chem 1021 and Math 1271 or instr consent;

Instructor: Feinberg, Joshua M.

Description: Student may contact the instructor or department for information.

GEO 3005 Earth Resources

3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of International Perspect Theme;

Instructor: Alexander Jr, E Calvin

Description: Student may contact the instructor or department for information.

GEO 3093 Problems in Geology and Geophysics: Junior

1-4 credit(s), max credits 6, 6 completions allowed; prereq instr consent;

Instructor: STAFF

Description: Students interested in working on a particular problem or issue in either geology or geophysics can contact the department office for referral to appropriate faculty members. Students will work on a one-to-one basis with a faculty member. Projects may include literature review, laboratory or field work, or computer modeling. Depending on the scope of the project students can earn from 1-4 credits for each project. This course may be taken more than once when different problems are pursued.

Style: varies with instructions

Grading: varies with instructions

Exam Format: varies with instructions

GEO 3202 Geodynamics II: The Fluid Earth**3 credit(s); prereq concurrent enrollment 2201;****Instructor:** Paola,Chris**Description:** Student may contact the instructor or department for information.**GEO 4010 Undergraduate Seminar: Current Topics in Geology and Geophysics****1-4 credit(s), max credits 12, 12 completions allowed; prereq instr consent ;****Instructor:** STAFF**Description:** Seminar courses are offered to undergraduate students on varying topics taught by departmental faculty. Students interested in learning which seminars are offered during a semester should contact either the department office or individual faculty members. Credit for seminar courses vary from 1-4 credits and this course may be taken more than once.**Style:** varies with instructions**Grading:** varies with instructions**Exam Format:** varies with instructions**GEO 4093 Problems in Geology and Geophysics: Senior****1-4 credit(s), max credits 6, 6 completions allowed; prereq instr consent;****Instructor:** STAFF**Description:** Students interested in working on a particular problem or issue in either geology or geophysics can contact the department office for referral to appropriate faculty members. Students will work on a one-to-one basis with a faculty member. Projects may include literature review, laboratory or field work, or computer modeling. Depending on the scope of the project students can earn from 1-4 credits for each project. This course may be taken more than once when different problems are pursued.**GEO 4094 Senior Thesis****2 credit(s), max credits 4; prereq Sr, Geo or GeoPhys major, instr consent;****Instructor:** STAFF**Description:** This course is intended for senior level majors to engage in independent research under faculty supervision. Students select problems according to individual interests and in consultation with faculty committee. Year long project results in a written thesis and oral defense.**Style:** varies with instructions**Grading:** varies with instructions**Exam Format:** varies with instructions**GEO 4203 Principles of Geophysical Exploration****3 credit(s); prereq Phys 1302;****Instructor:** Moskowitz,Bruce Matthew**Description:** This course deals with the applications of geophysical techniques for subsurface exploration and characterization of mineral and energy resources, geotechnical, site investigation, and environmental problems, and for global studies of the earth's interior. However, the main emphasis is on the shallow subsurface environment. Topics include potential field techniques (gravity and magnetics), seismic exploration (reflection and refraction), and electrical and electromagnetic methods. For each topic, the development will proceed from basic principles through methodology to applications. Grading is based on a combination of problem sets, midterm exams, and a final exam. The course is designed for, but not limited to, undergraduate majors and graduate students in geology, geophysics, geological engineering and related fields.**Style:** 100% Lecture.**Grading:** 40% mid exam, 30% final exam, 30% problem solving.**Exam Format:** mixed short answer, multiple choice, and simple problems**GEO 4203 Principles of Geophysical Exploration****3 credit(s); prereq Phys 1302;****Instructor:** Chandler,Val W**Description:** This course deals with the applications of geophysical techniques for subsurface exploration and characterization of mineral and energy resources, geotechnical,

site investigation, and environmental problems, and for global studies of the earth's interior. However, the main emphasis is on the shallow subsurface environment. Topics include potential field techniques (gravity and magnetics), seismic exploration (reflection and refraction), and electrical and electromagnetic methods. For each topic, the development will proceed from basic principles through methodology to applications. Grading is based on a combination of problem sets, midterm exams, and a final exam. The course is designed for, but not limited to, undergraduate majors and graduate students in geology, geophysics, geological engineering and related fields.

Style: 100% Lecture.**Grading:** 40% mid exam, 30% final exam, 30% problem solving.**Exam Format:** mixed short answer, multiple choice, and simple problems**GEO 4211 Solid Earth Geophysics I****A-F only, 3 credit(s); prereq 2201, Phys 1302;****Instructor:** Revenaugh,Justin**Description:** Student may contact the instructor or department for information.**GEO 4501 Structural Geology****3 credit(s); prereq 2201, 2302;****Instructor:** Hudleston,Peter John**Description:** Student may contact the instructor or department for information.**GEO 4631W Earth Systems: Geosphere/Biosphere Interactions****3 credit(s); prereq 3401; Meets CLE req of Writing Intensive;****Instructor:** Ito,Emi**Description:** Student may contact the instructor or department for information.**GEO 4703 Glacial Geology****4 credit(s); prereq 1001 or 1004 or instr consent;****Instructor:** Jennings,Carrie Ellen**Description:** Student may contact the instructor or department for information.**GEO 4703 Glacial Geology****4 credit(s); prereq 1001 or 1004 or instr consent;****Instructor:** Jennings,Carrie Ellen**Description:** The course will cover Quaternary climate history; the various geologic records used to reconstruct the history of glaciation; formation and dynamics of glaciers and ice sheets; processes of glacial erosion and deposition; and the nature of glacial sediments and landforms. From this course we hope that you will gain a better understanding of the glacial sediments and landforms of Minnesota and the Upper Midwest, an appreciation for the world-wide causes and effects of glaciation, and a better perspective of today's climate in relation to earth's climate history.**Style:** 40% Lecture, 40% Discussion. Overnight field trips**Grading:** 25% mid exam, 25% final exam, 25% quizzes, 25% other evaluation. Lab and field trip write ups**Exam Format:** Short essay**GEO 5204 Geostatistics and Inverse Theory****3 credit(s); prereq Stat 3011 or instr consent ;****Instructor:** Revenaugh,Justin**Description:** Student may contact the instructor or department for information.**GEO 5205 Fluid Mechanics in Earth and Environmental Sciences****3 credit(s); prereq MATH 2263 or instr consent;****Instructor:** Saar,Martin O.**Description:** This introductory course to fluid mechanics covers the physics of fluid flow in geological, geophysical, and environmental processes. We will derive and apply the governing flow equations from conservation of mass, energy, and momentum. These equations describe flow in many Earth and Environmental Science processes including fluid flow in oceans, lakes, rivers, and the atmosphere; flow of the Earth's mantle or outer core; wave propagation; porous medium flow in soils and

fractures; and diffusive, advective, and dispersive transfer of heat and certain tracers, chemicals, contaminants, and microbes within subsurface fluids. However, exact solutions can often only be found for a few special cases. Thus, justifiable assumptions must often be made to solve real problems. Hence, the course will emphasize 1) critical analysis of assumptions that enter derivations or modifications of equations, 2) dimensional analysis and similitude, and 3) solving of specific problems in the Earth and Environmental Sciences. Other topics may include fluid rheology, convection, turbulent flow, porous flow, and poroelasticity.

GEO 5503 Advanced Petrology

3 credit(s); prereq 2302, CHEM 1021, [MATH 1372 or MATH 1272 or MATH 1572];

Instructor: Whitney, Donna L

Description: Student may contact the instructor or department for information.

GEO 5503 Advanced Petrology

3 credit(s); prereq 2302, CHEM 1021, [MATH 1372 or MATH 1272 or MATH 1572];

Instructor: Whitney, Donna L

Description: Student may contact the instructor or department for information.

GEO 5601 Advanced Sedimentology

4 credit(s); prereq 4602 or instr consent;

Instructor: Kleinspehn, Karen L

Description: This course explores sedimentary basins and their processes from the sub-microscopic to basin scale with a focus on the petrology of clastic and carbonate deposits, tectonic and paleoclimatic records, paleocurrent and provenance analysis, thermal histories, diagenetic effects on subsurface fluid flow, and volcanic sedimentation. An additional goal is to interpret and predict deposits including alluvial fans, marine/lacustrine fan deltas, aeolian settings and tidal systems. Remaining lecture topics are open and will be based on the interests of the class registrants and might include glacial settings, fluvial systems, coasts, storms, tsunamis, turbidite fans, carbonate platforms, continental shelves, deep-sea trenches and/or abyssal plains. Lectures are supported by images of outcrops or modern deposits from multiple parts of the world. No textbook is assigned, but vigorous class discussion is based on in-class exercises and reading assignments from the current geoscience literature. Students write reviews of recently published journal articles and a 10-12 page paper and present their paper topic in an informal in-class poster session. This course is for graduate students and upper-level undergraduates who have completed Geo 4602, Sedimentology and Stratigraphy, or an equivalent course.

Style: 60% Lecture, 40% Discussion.

Grading: 40% reports/papers, 10% class participation, 40% other evaluation. Review of published papers

Exam Format: No exams

GEO 5705 Limnogeology and Paleoenvironment

3 credit(s); prereq instr consent;

Instructor: Ito, Emi

Description: Study of within-lake, hydrogeologic and landscape (geological and biological) processes that lead to the formation of various proxy records of paleoenvironment. Physical, geochemical, biogeochemical, and biotic proxies and how they relate to each other will be examined using a systems approach. Includes a general discussion of basic principles as well as specific case studies. Some emphasis will be placed on how various 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.

GEO 8601 Introduction to Stream Restoration

A-F only, 3 credit(s); prereq Grad student in CE or GEO or EEB or WRS or FW or BAE or FR or HORT or ENR or LA or SRSE or instr consent ; Credit will not be granted if credit has been received for: EEB 8601;

Instructor: Paola, Chris

Description: Student may contact the instructor or department for information.

GEO 8994 Research in Geology and Geophysics

1-4 credit(s), max credits 30, 30 completions allowed; prereq instr consent;

Instructor: Gran, Karen B

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

205 Folwell Hall

GER 222 Reading German

A-F only, 0 credit(s);

Instructor: Shepela, Anja Schoenberg

Description: Student may contact the instructor or department for information.

GER 1001 Beginning German

5 credit(s);

Instructor: STAFF

Description: German 1001 is intended for beginners and introduces students to the four language skills areas: speaking, writing, listening, and reading. Homework assignments become the basis for student-to-student interaction, small group work and role-play in class. The text for the course, Wende, covers speaking and writing in daily contemporary issues and stresses reading and listening strategies useful in language learning. Along with this textbook we use a German cultural reader called Oktoberfest, a mystery which takes place in Munich, and grammar reference materials. Students will also complete a variety of writing activities, including essays. First-year language courses involve extensive student interaction, partner activities, and group work. Expect an average of 1.5 hours of outside preparation for each class session hour.

Style: mostly discussion and student involvement and interaction.

Grading: 10% final exam, 12% reports/papers, 4% special projects, 33% quizzes, 28% class participation, 13% other evaluation. reading/group work assignments and computer and audio lab.

Exam Format: written.

GER 1002 Beginning German

5 credit(s); prereq 1001;

Instructor: STAFF

Description: German 1002 is intended for students who have completed German 1001 or the equivalent. The course emphasizes four language skills: speaking, writing, listening, and reading. Homework assignments become the basis for student-to-student interaction, small group work and role-play in class. The text for the course, *Wende*, covers speaking and writing in daily contemporary issues and stresses reading and listening strategies useful in language learning. Along with this textbook we use a German cultural reader called *Grenzverkehr* and grammar reference materials. By the end of the course students should be able to compare the German and American educational systems, and describe free-time activities and career choices. They will also have become familiar with various contemporary social issues in the German-speaking countries. Several class sessions will help familiarize students with computer and Internet resources. This course includes process writing assignments. First-year language courses involve extensive student interaction, partner activities, and group work. Expect an average of 1.5 hours of outside preparation time for each class session hour.

Style: Mostly discussion and student involvement and interaction.

Grading: 10% final exam, 12% reports/papers, 8% special projects, 27% quizzes, 22% class participation, 21% other evaluation. reading/group work assignments and computer/audio lab

Exam Format: written

GER 1003 Intermediate German

5 credit(s); prereq 1002 or Entrance Proficiency Test;

Instructor: STAFF

Description: Students in this course will be working with the course-packet Sprunge and the accompanying listening exercises on Sprunge-Online, short literary texts, a feature film, and online cultural exercises. Topics covered in this course will include free-time activities and travel, living situations, the German educational system, career decisions, and media and technology. The program has a communicative and functional orientation. German 1003 is designed to review basic German language structures and to help students extend their listening and speaking skills. Regular recycling of grammar and vocabulary encourages students to become more fluent in their use of language. Students participate regularly in conversational activities, small group work, role-plays, and internet research of cultural topics. Process-writing essays, presentations on cultural topics, and short interviews round out the course.

Style: varies with instructor

Grading: 10% final exam, 15% reports/papers, 6% special projects, 30% quizzes, 8% in-class presentation, 25% class participation, 6% other evaluation. Role-plays

Exam Format: written, oral interviews

GER 1004 Intermediate German

5 credit(s); prereq 1003 or completion of Entrance Proficiency Test at 1004 level;

Instructor: STAFF

Description: 1004 builds on the skills taught in 1003. Students use the course-packet Sprunge 1004 and listening exercises on Sprunge-Online, read short texts and a play, watch a feature film, and do online cultural exercises. Topics include Berlin, film, and issues of multiculturalism. German 1004 reviews German language structures and helps students expand their listening, speaking, reading and writing skills. Regular recycling of grammar and vocabulary encourages students to become more fluent in their use of language. Students participate regularly in conversational activities, small group work, role-plays, and internet research. Process-writing essays, presentations, and interviews round out the course. Course materials: Sprunge 1004, Durrenmatt's *Die Physiker*. (Oxford UP edition).

Style: varies with instructor.

Grading: 15% final exam, 10% reports/papers, 15% special projects, 30% quizzes, 22% class participation, 8% other evaluation. Interviews

GER 1022 Beginning German Review

5 credit(s); prereq Placement above 1001;

Instructor: STAFF

Description: Intended for students with previous experience in German, primarily those who have studied German in high school or at community colleges, or who are transfer students. The course involves intensive review of all four language modalities (listening, reading, speaking, writing), with a proficiency emphasis to prepare for German 1003. By the end of the course students should be able to discuss familiar topics, such as every day activities, free-time occupations, or career choices, and have become familiar with some contemporary social issues in the German-speaking countries. There is a cultural reader for this course, *Grenzverkehr*. This course includes writing assignments that are process-oriented and require students to work together in editing groups. All class sessions involve extensive student interaction and require an average of 2 hours of outside preparation.

Style: student discussion and interaction

Grading: 10% final exam, 12% reports/papers, 4% special projects, 32% quizzes, 29% class participation, 13% other evaluation. reading/group assignments, 4% computer/audio lab

Exam Format: Written

GER 1601 Fleeing Hitler: German and Austrian Filmmakers Between Europe and Hollywood

3 credit(s); Credit will not be granted if credit has been received for: GER 1601H; Meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core; Instructor: Mc Cormick, Rick

Description: This course investigates the work done by famous German and Austrian film directors who came to Hollywood in years before World War II: Ernst Lubitsch, Fritz Lang, Billy Wilder, and Robert Siodmak, among others. They came to Hollywood to escape the Nazi regime either because they were Jewish or part-Jewish and/or because they had political differences with the Nazi regime. The German cinema's loss was the American cinema's gain, as modernist styles and techniques of the German cinema like Expressionism and New Objectivity were fused with American elements to create new, hybrid entities such as the genre we now call "film noir." They also made comedies and melodramas. The exile directors also made political films for the war effort against the Nazis in the 1940s. The legacy of their work in Hollywood lives on not just in contemporary American cinema but in the postwar European cinema, where filmmakers were strongly influenced by this trans-Atlantic legacy of hybrid genres, styles-and politics. We will study these international dynamics by viewing both German and American films by these directors, and by learning to analyze them both as cinematic works of art and as cultural texts within larger social and political contexts. The German films we watch will all have English subtitles or intertitles.

Style: 33% Lecture, 33% Discussion, 33% Small Group Activities. In-class analysis of specific sequences from the films--both in lecture/discussion and in small groups

Grading: 25% final exam, 35% reports/papers, 20% class participation, 20% other evaluation. informal film responses on WebCT

Exam Format: take-home essay exam (min. 5 pp.)

GER 1905 Freshman Seminar: The Dragon-Slayer Stories

A-F only, 3 credit(s), max credits 6; prereq Fr;

Instructor: Norrman, Lena Elisabeth

Description: Student may contact the instructor or department for information.

GER 3011W Conversation and Composition

4 credit(s); prereq 1004; Meets CLE req of Writing Intensive; Instructor: STAFF

Description: This course is designed to refine students' oral and written expression and aid in the development of critical analysis skills. Contemporary readings introduce important communicative modes of language (description, narrative, debate, report, text analysis), while a grammar review supports works on finer grammar points. Multi-media materials (video clips, feature films, computer resources) will complement the other instructional materials. Graded work includes active class participation, essay writing and revision, individual and group

oral presentations and projects, and informal writing assignments of varying lengths.

Style: 10% Lecture, 10% Film/Video, 30% Discussion, 35% Small Group Activities, 15% Student Presentation.

Grading: 30% reports/papers, 25% quizzes, 10% journal, 25% in-class presentation, 10% class participation.

GER 3104W Reading and Analysis of German Literature

4 credit(s); prereq 3011; Meets CLE req of Literature Core; meets CLE req of Writing Intensive;

Instructor: STAFF

Description: The course introduces you to selected great works of German literature (prose, poetry, and drama) and to the basic skills of literary interpretation. There will be short background lectures, but the emphasis of the course is on active class discussion in which you are encouraged to respond thoughtfully to the texts. As a Writing Intensive course, Ger 3104 also trains you to formulate interpretive arguments in logical, written form, supported by textual evidence. Readings will be chosen on the basis of their intriguing content as well as their superb literary quality. Conducted in German.

Style: 50% Lecture, 50% Discussion.

GER 3460 Women Writers in German Literature: Other Voices: Writings & Films by Minority Women

3 credit(s), max credits 9, 3 completions allowed; prereq 3011;

Instructor: Joeres, Ruth-Ellen B

Description: Not very long ago, in the matter of gender, it was women who were labeled "other." But now, thanks to some nuanced theoretical developments, the gendered "other" has taken on more complex characteristics: not "just" a woman, for example, but a German woman. A woman of color. An old woman. A poor woman. Increase the complexity, augment it by other categories, and you will reach the subject matter of this course: namely, the German writings and films of women in Germany who, however, belong to a hyphenated category of ethnic and national identity, e.g. Afro-German [born in Germany, with German as their native language but with an ethnic heritage that is a mix of German and African/African-American], or who have a multifaceted ethnic background, such as Turkish-German and Japanese-German [perhaps born in Germany, perhaps not, but now resident there and writing in German]. What they all share is their gender and the language in which they have chosen to write or to film. They also share a national location and in their creative work present enriching and revealing illustrations of what it can mean today to be called "German." For obvious reasons, a major focus of our discussions will involve language and the complexities of its use and its meanings when the speaker/writer/filmmaker is herself from a multiethnic background that may be in tension with the language in which she has chosen to speak. In addition to placing a strong emphasis on issues of ethnic identity, we will examine the writings and films also in terms of other categories of identity, namely, gender, class, and national identity. We will also think about the tensions between ethnicity and national identity and on the interjection of "race" into such a discussion. The authors and filmmakers whom we will discuss have been active in the late 20th and early 21st centuries. Included will be Afro-German, Turkish-German, and Japanese-German writers and filmmakers, among others: for example, May Ayim, Afro-German writer and political activist; Fatima El-Tayeb, Afro-German filmmaker and historian; Ika Hugel-Marshall, Afro-German memoirist; the Turkish-German writers Alev Tekinay, Emine Sevgi Ozdamar, and Saliha Scheinhardt; Seyhan Derin, Turkish-German filmmaker; the Japanese-German writer Yoko Tawada who publishes both in German and Japanese. The course will be taught in German and most of the readings will be in German, although there will be some critical texts in English as well as German. The take-home final exam can be written in either German or English.

Style: 30% Lecture, 30% Discussion, 20% Small Group Activities, 20% Student Presentation. Films will be scheduled at a separate time.

Grading: 30% final exam, 20% reports/papers, 10% in-class presentation, 20% class participation. two short papers in German

Exam Format: take-home examination in German or English

GER 3510 Topics in German Studies: Art, Politics, and Diversity

3 credit(s), max credits 9, 3 completions allowed; prereq 3011;

Instructor: Wolbert, Barbara

Description: In this course on the intersection of visual cultural studies and German and European studies, we will focus on art events and cultural institutions - such as exhibitions and museums - in the context of globalization. We will deal with the representation of racial, national, cultural and religious diversity and its representation in the public sphere. In particular, we will concentrate on a variety of forms of expressive culture on the politics of exclusion and inclusion in German art worlds. We will describe the appropriation of concepts such as integration and multiculturalism into political discourses in Germany. Through exhibits of art referred to as ?international art?, ?global art?, ?ethnic art?, ?Non-Western art?, we will analyze the notion of otherness at a particular point in time and critically examine German cultural politics. Thus, we will take a critical view of visual culture, political power and alterity. The course addresses this issue from a diachronic perspective: our discussions will follow a sequence of art exhibition cases from Imperial Germany, the Weimar Republic, Nazi Germany, the Cold War Germanys and Unified Germany. While the selection of catalogs and slides from exhibition sites focuses on the German case, the theoretical readings allow a more general introduction to German studies, cultural studies, and visual studies. You may take this course as an introduction to German cultural politics; it may also serve the interests and needs of students who are seeking to expand their knowledge of German culture and politics. This course aims furthermore at broadening your understanding of the place and role of art in society and raising your awareness of diversity issues and questions of representation. Working not only with texts, but also studying displays on site and dealing with visual images, you will be encouraged to formulate descriptions carefully, develop your own interpretations, and critically make use of the readings.

Style: 50% Lecture, 25% Discussion, 20% Student Presentation, 5% Field Trips.

Grading: 10% mid exam, 20% final exam, 40% reports/papers, 15% in-class presentation, 15% class participation.

Exam Format: Mid term: open questions/short answers expected; final exam: essay form (take-home-exam).

GER 3511W German Civilization and Culture: Middle Ages to 1700

3 credit(s); Meets CLE req of Writing Intensive;

Instructor: Wakefield, Ray M

Description: This course, with lectures in English, offers an overview of the cultural, political, and social development of the German-speaking countries from the earliest days of contact between the Germanic tribes and the Romans until 1700. Emphasis will be placed on the way in which present-day Germany views its medieval and early modern past, and the role of the Middle Ages, the Reformation, and the Thirty Years War in the creation of a German national identity. Topics to be discussed include myths about the origins of the Germans, the Germanic reshaping of the ancient Roman world, the role of the German Empire in the development of medieval Christianity, the social position of women in medieval and early modern times, medieval and early modern court culture, Reformation and Counter-Reformation debates, Baroque culture in the German Empire. Discussions will involve many types of cultural artifacts, e.g., literary, historical, religious, philosophical texts; paintings, engravings, architecture; medieval and early modern music. Authors to be discussed include Tacitus, Einhard, Hildegard von Bingen, Luther, Grimmelshausen, et al. English discussion sections; question-and-answer sessions in German.

GER 3593 Directed Studies: German-Speaking Countries

4 credit(s), max credits 12, 3 completions allowed; prereq 3011, dept consent;

Instructor: STAFF

Description: Preparation for research abroad during semester

before departure. Written and oral reports upon return.

GER 3601 German Medieval Literature

3 credit(s); prereq No knowledge of German required; Meets CLE req of Literature Core;
Instructor: laneva-Lockney, Arsenia
Description: Student may contact the instructor or department for information.

GER 3993 Directed Studies

1-4 credit(s), max credits 12, 12 completions allowed; prereq instr consent, dept consent, college consent;
Instructor: STAFF
Description: Guided individual reading or study. The student approaches an appropriate professor with a topic of interest, and if the professor has time and is willing to guide the student, the student, along with the professor, fills out a form which is available in the department office (205 Folwell). On this form, they specify the topic, reading and study materials, and form of evaluation.

GER 4001 Beginning German

2 credit(s); prereq Grad student;
Instructor: STAFF
Description: German 1001 is intended for beginners and introduces students to the four language skills areas: speaking, writing, listening, and reading. Homework assignments become the basis for student-to-student interaction, small group work and role-play in class. The text for the course, *Wende*, covers speaking and writing in daily contemporary issues and stresses reading and listening strategies useful in language learning. Along with this textbook we use a German cultural reader called *Oktoberfest*, a mystery which takes place in Munich, and grammar reference materials. Students will also complete a variety of writing activities, including essays. First-year language courses involve extensive student interaction, partner activities, and group work. Expect an average of 1.5 hours of outside preparation for each class session hour.
Style: mostly discussion and student involvement and interaction.
Grading: 10% final exam, 12% reports/papers, 4% special projects, 30% quizzes, 30% class participation, 14% other evaluation. reading/group work assignments and computer and audio lab.
Exam Format: written.

GER 4002 Beginning German

2 credit(s); prereq Grad student;
Instructor: STAFF
Description: German 1002 is intended for students who have completed German 1001 or the equivalent. The course emphasizes four language skills: speaking, writing, listening, and reading. Homework assignments become the basis for student-to-student interaction, small group work and role-play in class. The text for the course, *Wende*, covers speaking and writing in daily contemporary issues and stresses reading and listening strategies useful in language learning. Along with this textbook we use a German cultural reader called *Grenzverkehr* and grammar reference materials. By the end of the course students should be able to compare the German and American educational systems, and describe free-time activities and career choices. They will also have become familiar with various contemporary social issues in the German-speaking countries. Several class sessions will help familiarize students with computer and Internet resources. This course includes process writing assignments. First-year language courses involve extensive student interaction, partner activities, and group work. Expect an average of 1.5 hours of outside preparation time for each class session hour.
Style: Mostly discussion and student involvement and interaction.
Grading: 10% final exam, 12% reports/papers, 4% special projects, 30% quizzes, 30% class participation, 14% other evaluation. reading/group work assignments and computer/audio lab
Exam Format: written

GER 4003 Intermediate German

2 credit(s); prereq Grad student;
Instructor: STAFF
Description: Students in this course will be working with the course-packet *Sprunge* and the accompanying listening exercises on *Sprunge-Online*, short literary texts, a feature film, and online cultural exercises. Topics covered in this course will include free-time activities and travel, living situations, the German educational system, career decisions, and media and technology. The program has a communicative and functional orientation. German 1003 is designed to review basic German language structures and to help students extend their listening and speaking skills. Regular recycling of grammar and vocabulary encourages students to become more fluent in their use of language. Students participate regularly in conversational activities, small group work, role-plays, and internet research of cultural topics. Process-writing essays, presentations on cultural topics, and short interviews round out the course.

GER 4004 Intermediate German

2 credit(s); prereq Grad student;
Instructor: STAFF
Description: 1004 builds on the skills taught in 1003. Students use the course-packet *Sprunge* 1004 and listening exercises on *Sprunge-Online*, read short texts and a play, watch a feature film, and do online cultural exercises. Topics include Berlin, film, and issues of multiculturalism. German 1004 reviews German language structures and helps students expand their listening, speaking, reading and writing skills. Regular recycling of grammar and vocabulary encourages students to become more fluent in their use of language. Students participate regularly in conversational activities, small group work, role-plays, and internet research. Process-writing essays, presentations, and interviews round out the course. Course materials: *Sprunge* 1004, Durrenmatt's *Die Physiker*. (Oxford UP edition).

GER 5011 Advanced Conversation and Composition

3 credit(s); prereq 3011, [grad student or adv undergrad];
Instructor: Firchow, Evelyn S
Description: GER 5011 "Beginning with a thorough grammar review using Hilke Dreyer and Richard Schmitt, "Lehr- und Übungsbuch der Deutschen Grammatik" Neu Bearbeitung Hueber (die neue Gelbe) 2008 or later. The course will go on to deal with selections from the leading German weekly "Der Spiegel." These selections, as well as a number of carefully chosen reference works and handbooks, will form the focus of class discussion and provide material for brief reports in class. There will be several quizzes on the assignments, but no mid-term or final examination. Students will write German essays on assigned topics that they can correct and rewrite once for a better grade if they wish. We will do also some work on translations from German to English. The class will be conducted primarily in German. This is the most advanced German LANGUAGE course offered by the Department and is highly recommended for upperclass undergraduates, beginning graduate students, teaching/research assistants, and German teachers."

GER 5610 German Literature in Translation

3 credit(s), max credits 9, 3 completions allowed; prereq No knowledge of German required; cr toward major or minor requires reading in German;
Instructor: Allen, Joseph R
Description: This course is a review of the issues surrounding translation, including theories of representation, ideological work, as well as actual practice. The course is structured around a series of readings and discussion of both historical and contemporary writing on translation; these readings and discussions. While most of the readings center on the theory and particulars of literary translation, students will be encouraged to explore other manifestations of translation as a historical, cultural or aesthetic issue. Along with those interested in languages and literature, students in disciplines such as creative writing, performance, and the plastic arts are also welcomed. You should be native or near-native speaker of English, as well as an advanced speaker/reader of at least one other language, either

classical or vernacular.

GER 5630 Topics in German Cinema: F.R. Germany in the TV crime series TATORT
3 credit(s), max credits 9, 3 completions allowed; prereq 3xxx film course or instr consent ;

Instructor: Hueser,Rembert

Description: The German TV crime series TATORT [?Scene of the Crime?] is one of a kind. As of today [April 8, 2009] 728 episodes of this 90-minute show have been broadcast on German television. The first episode, "Taxi to Leipzig," aired on Nov. 30, 1970. That is 39 years ago. (?ER? in comparison, ran for 14 seasons, 15 years, 331 shows.) New episodes are shown on Sundays at prime-time, still pulling in huge audiences (about 20% of the entire viewing public). What is so special about this show? Why has the format been interesting for Hollywood directors such as Samuel Fuller and German filmmakers such as Dominik Graf alike? Why isn't it outdated yet? The concept of the series is inextricably intertwined with the structure of German public television, which reflects the federal system of Germany and its sixteen states. ?Because ARD, Germany?s first channel as it were, is an association of regional public broadcasters, each one gets to make its own, locally-based `Tatort? [...], featuring their own detectives. [...] The advantage of this regional production system is that local sites, accents, dialects and foibles can be exploited to the full? (The Atlantic Times, June 2008). Up to today, 79 different teams of police inspectors from Leipzig, Berlin, Munich, Hamburg, Frankfurt, Cologne, Munster, Stuttgart, you name it, have been solving murders. Several cities have a history of several investigators over the years. The concept of the series can also easily be situated within the political logic of the aftermath of 1968. All episodes do not simply solve crimes, but use to tackle current, explosive, politically charged themes. The class will analyze selected episodes of TATORT in terms of an inland ethnography of Germany. What does this huge archive of ?explosive themes? tell us about the various states of the state of Germany since the seventies? The class will be taught in English. Participants should be able to follow a German film without subtitles.

GER 5721 Introduction to Middle High German
3 credit(s);

Instructor: Firchow,Evelyn S

Description: In this course you will be introduced to Middle High German, its lexicon, grammar and position within the historical development of the German language. We will read and translate a number of excerpts from some of the major literary works to familiarize you with the literature of the period. Major handbooks of the MHG language and literature will be reported on. Longer portions of the Nibelungenlied will be read later in the course to increase your reading speed. The course will be held in German except for the translations from MHG into English. You will be given worksheets to be completed. There will be quizzes as needed and a final examination. In spring 2010 German 5722, the second semester of Middle High German will be offered. We will read more extensive literary works and learn to use the standard scholarly grammars and dictionaries of Middle High German. Some work on medieval palaeography and text editing will also be included.

Style: 25% Lecture, 25% Discussion. Translations.

Grading: 25% quizzes, 25% in-class presentation, 50% other evaluation. Translations. Quizzes will vary between 25 and 30%, class presentation will vary between 20 and 25% .

GER 5734 Old Saxon
3 credit(s);

Instructor: Liberman,Anatoly

Description: Old Saxon is a medieval Germanic language, known mainly from the /Heliand/ (/The Savior/), one of the greatest poetic monuments of old European literature. This life of Jesus, addressed, as it seems, to a recently converted audience and told by a poet of exceptional talent, is a rare window into the language, culture, and mentality of the past. The entire text cannot be covered in one semester, but we will read the most representative passages. As a rule, this course attracts a few graduate students who have had some previous exposure to Old

Germanic, and five or six undergraduates to whom everything will be new. Our initial speed will be geared toward the second group (that is, in September and part of October we will be moving vey slowly), but in five weeks or so the beginners will feel nearly as comfortable as the better prepared graduate students. The course presupposes neither tests nor papers. Its success and the grades will depend exclusively on attendance and performance in class. In addition to weekly assignments, short book reports are envisaged. Every student will be asked to read an article or a chapter in a book in English or Germ and tell its contents to the rest of the group.

GER 5993 Directed Studies

1-4 credit(s), max credits 12, 12 completions allowed; prereq instr consent, dept consent, college consent;

Instructor: STAFF

Description: Guided individual reading or study. The student approaches an appropriate professor with a topic of interest, and if the professor has time and is willing to guide the student, the student, along with the professor, fills out a form which is available in the department office (205 Folwell). On this form, they specify the topic, reading and study materials, and form of evaluation.

GER 8300 Topics in Literature and Cultural Theory: Diversity Troubles

3 credit(s), max credits 9, 3 completions allowed;

Instructor: Joeres,Ruth-Ellen B

Description: Student may contact the instructor or department for information.

German,Scandinavian, and Dutch 205 Folwell Hall

GSD 3451V Honors Major Project Seminar

A-F only, 3 credit(s); prereq Honors student; Credit will not be granted if credit has been received for: GSD 3451W; Meets CLE req of Writing Intensive;

Instructor: Melin,Charlotte Ann

Description: Student may contact the instructor or department for information.

GSD 3451W Major Project Seminar

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: GSD 3451V; Meets CLE req of Writing Intensive;

Instructor: Melin,Charlotte Ann

Description: GSD 3451 is a required course that provides guidance and feedback to students who write their major projects for the B.A. degrees in German and Scandinavian. The Major Project Seminar provides a framework to help students conceptualize, research and write their major projects. The project should demonstrate the student?s ability to define a research problem, gather and analyze pertinent information, use secondary sources appropriately, present arguments and propose solutions in a clear and logical manner. Students will work with the help of the course instructors to develop and carry out their plans for research and writing. The course is designated as Writing Intensive; over the course of the semester the students will write and revise a substantial paper, normally 20-25 pages, double-spaced, usually written in English following standard scholarly format. Each student will also be assigned a ?second reader? from the faculty who can provide feedback on the student?s project proposal, bibliography, and at least one draft of the project. GSD 3451W and 3451V meet together; 3451V is meant for honors students planning to graduate with Latin honors. Please note that the major project seminar is offered during only the fall semester.

GSD 3451W Major Project Seminar

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: GSD 3451V; Meets CLE req of Writing Intensive;

Instructor: Houe,Poul

Description: GSD 3451 is a required course that provides guidance and feedback to students who write their major projects for the B.A. degrees in German and Scandinavian. The Major Project Seminar provides a framework to help students conceptualize, research and write their major projects. The project should demonstrate the student's ability to define a research problem, gather and analyze pertinent information, use secondary sources appropriately, present arguments and propose solutions in a clear and logical manner. Students will work with the help of the course instructors to develop and carry out their plans for research and writing. The course is designated as Writing Intensive; over the course of the semester the students will write and revise a substantial paper, normally 20-25 pages, double-spaced, usually written in English following standard scholarly format. Each student will also be assigned a second reader from the faculty who can provide feedback on the student's project proposal, bibliography, and at least one draft of the project. GSD 3451W and 3451V meet together; 3451V is meant for honors students planning to graduate with Latin honors. Please note that the major project seminar is offered during only the fall semester.

GSD 5103 Teaching of Germanic Languages

3 credit(s);

Instructor: Melin,Charlotte Ann

Description: This seminar is designed primarily for new graduate students who will be teaching language courses in the department. The course is conducted in English and covers both theoretical and practical aspects of language teaching. Instructors will be encouraged to develop self-reflexive teaching practices and to construct teaching and testing materials that correspond to topics covered in this course. Weekly assignments will include readings in Hadley, Teaching Language in Context and discussion of the following topics: theories of language teaching, the role of contextualization, proficiency-orientated approaches to teaching the four skills (reading, writing, listening, speaking) as well as culture, and assessment methods. Additional assignments involve several class observations, a report on a current article in the field of Second Language Acquisition, and critical discussions of materials covered. URL not known, but can be found under class web.

Style: 10% Lecture, 90% Discussion.

GSD 8001 Approaches to Textual Analysis

3 credit(s);

Instructor: Morris,Leslie C

Description: This course is designed to introduce students to the theoretical approaches to textual analysis that currently shape the disciplinary identity of Germanic studies. Students will learn about the various processes of reading that make our discipline different from other disciplines. The syllabus must incorporate at least four of the theoretical fields relevant to literary and cultural studies that have been so designated by the faculty. This course serves in part as the preparation for the M.A. exam, in which students choose one text from each of two theoretical fields.

Gerontology

D-351 Mayo (Box 197 UMHC)

GERO 5100 Topics in Gerontology: Neuroscience of Disease

0.5-4 credit(s), max credits 10, 10 completions allowed;

Instructor: Low,Walter Cheney

Description: Student may contact the instructor or department for information.

GERO 5105 Multidisciplinary Perspectives on Aging

3 credit(s);

Instructor: STAFF

Description: This course is designed to: develop an understanding of aging as a normal process; describe the biological, psychological, and sociological consequences of

aging; identify major health theories and approaches that different disciplines contribute to the field of gerontology; describe selected successful and maladaptive responses of older adults to the development tasks, opportunities and crises that confront them; identify specific interventions and agencies that enhance the life of the older person; discuss the value of a multidisciplinary approach to the study of aging and to the provision of services to an aging clientele; and identify the student's own values and beliefs about the aging process and older adults. The class format includes lectures, guest speakers, discussions, and readings of current material relating to aging and older adults. Specific topics covered include: Sociological; Psychological Aspects of Aging; Theories of Aging; Death and Bereavement; Issues and Problems of Older Adults in America; Human Services and Their Delivery Systems (Health, Nutrition, Long-term Care, Education); Public Policy & Legislation; Environment and Housing; Retirement. The course is targeted to upper division undergraduates and graduate students.

Style: 80% Lecture, 20% Discussion.

GERO 5115 Introduction to Geriatrics

S-N only, 2 credit(s);

Instructor: Kane,Robert L

Description: Student may contact the instructor or department for information.

GERO 8020 Seminar in Gerontology

2 credit(s); prereq instr consent;

Instructor: Thompson PhD,LaDora V

Description: Student may contact the instructor or department for information.

Global Studies **214 Social Science**

GLOS 1015W Globalization: Issues and Challenges

4 credit(s); Credit will not be granted if credit has been received for: GLOS 1015V; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspective Theme; meets CLE req of Writing Intensive;

Instructor: Farmer,Edward L

Description: This class is an ambitious and demanding course designed as an introduction to global history in the last fifty years. The course will provide you with a framework for thinking about the recent past, world geography, and some general trends. The course is organized comparatively, and will emphasize selected "cases" in Asia (The People's Republic of China and the Republic of China), Africa (South Africa and Mozambique) and Latin America (Cuba and Guatemala). Throughout the course we will not only attempt to understand the big picture of global history (East West rivalry in the Cold War, the North South division in development, global ecology and economy) but also how changes have affected people's everyday lives. We do this through the concepts of livelihood and identity that reveal the impact of national and international forces at the personal level. We will seek out the "voices" of individuals by reading short stories and biographical accounts.

Style: 50% Lecture, 40% Discussion. Peer Review of Writing
Grading: 25% mid exam, 20% final exam, 30% reports/papers, 25% class participation.

Exam Format: Identification 20%; Essay 80%

GLOS 1015W Globalization: Issues and Challenges

4 credit(s); Credit will not be granted if credit has been received for: GLOS 1015V; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspective Theme; meets CLE req of Writing Intensive;

Instructor: Hakim,Carol

Description: This class is an ambitious and demanding course designed as an introduction to global history in the last fifty years. The course will provide you with a framework for thinking about the recent past, world geography, and some general trends. The course is organized comparatively, and will

emphasize selected "cases" in Asia (The People's Republic of China and the Republic of China), Africa (South Africa and Mozambique) and Latin America (Cuba and Guatemala). Throughout the course we will not only attempt to understand the big picture of global history (East West rivalry in the Cold War, the North South division in development, global ecology and economy) but also how changes have affected people's everyday lives. We do this through the concepts of livelihood and identity that reveal the impact of national and international forces at the personal level. We will seek out the "voices" of individuals by reading short stories and biographical accounts.
Style: 50% Lecture, 40% Discussion. Peer Review of Writing
Grading: 25% mid exam, 20% final exam, 30% reports/papers, 25% class participation.
Exam Format: Identification 20%; Essay 80%

GLOS 1905 Freshman Seminar: The World Within: Contemporary Immigrant America

A-F only, 3 credit(s); prereq freshman;
Instructor: Leitner, Helga
Description: This seminar explores some salient issues of contemporary immigrant America, with the goal of fostering a deeper understanding and more knowledgeable appreciation of the diverse experiences of immigrants to the US; the challenges of living with difference, from the perspective of both immigrants and the majority population; and of future prospects for peaceful co-existence in a multicultural/multiracial United States. Utilizing readings from across the social sciences and humanities, films and videos, and short field trips into Minneapolis neighborhoods, we will attempt to gain insights into diversity of contemporary immigrant experiences and the specific opportunities and challenges they and their children face in making the U.S. their home. We will also examine the contributions that immigrants have made to U.S. society, economy, polity and everyday life, and their reception in our neighborhoods, communities and the nation.

GLOS 1905 Freshman Seminar: Making of Global Cities

A-F only, 3 credit(s); prereq freshman;
Instructor: Goldman, Michael R
Description: In 2007, someone moved to the city. That move marked the tipping point of a new urban century in which more than half of the world's population now lives in cities. Most metropolitan growth is occurring in cities of the global South, such as Guangzhou (China) and Johannesburg (South Africa), where populations are expected to double over the next three decades. It is imagined that these global cities 'in the making' will cultivate new entrepreneurs that will catapult poor countries into rich players in the global marketplace. Is this the best hope for the world's poor, to become globally competitive urbanites? Does living in cities reflect new types of freedom, democracy, and opportunity? Does the growth of cities spark the diffusion of new artistic expression and creativity? We will explore these questions by reading fiction, watching films, and learning about the power of finance capital, real estate speculation, and subterranean urban cultures. We will visit a range of cities, experiencing them from street level, to gain a robust understanding of how cities work in this new era of globalization.

GLOS 3144 Knowledge, Power, and the Politics of Representation in Global Studies

4 credit(s); prereq 6 cr in social sciences including [Geog 1301 or Hist 1015 or Hist 1019 or Hist 1012 or Hist 1018 or Pol 1025]; Credit will not be granted if credit has been received for: GLOS 3144H; Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core;
Instructor: Kaminsky, Amy K
Description: Student may contact the instructor or department for information.

GLOS 3144H Honors: Knowledge, Power, and the Politics of Representation in Global Studies

4 credit(s); prereq honors, 6 cr in social sciences [including Geog 1301 or Hist 1015 or Hist 1019 or Hist 1012 or Hist 1018 or Pol 1025]; Credit will not be granted if credit has been received for: GLOS 3144; Meets CLE req of

International Perspect Theme; meets CLE req of Social Science Core;

Instructor: Kaminsky, Amy K

Description: Student may contact the instructor or department for information.

GLOS 3401 International Human Rights Law

A-F only, 3 credit(s); prereq [3101, 3144] or instr consent;

Instructor: Frey, Barbara A

Description: International Human Rights law is designed to introduce students to issues, procedures and advocacy strategies involved in the promotion and protection of human rights worldwide. The class encourages students to analyze case situations and to evaluate the most effective methods to prevent human rights violations. Because of the evolving nature of the laws and issues in this field, students can participate as strategists and investigators on human rights issues. The instructor, Barbara Frey, is a lawyer and human rights activist.
Style: 50% Lecture, 25% Discussion. guest speaker, debates and other exercises

Grading: 25% mid exam, 40% final exam, 25% reports/papers, 10% class participation.

Exam Format: Take home with 7 short answer questions and 1 essay question

GLOS 3550V Honors Course: Supervised Research Paper 4 credit(s); prereq dept consent ; Meets CLE req of Writing Intensive;

Instructor: Craddock, Susan L

Description: Student may contact the instructor or department for information.

GLOS 3550V Honors Course: Supervised Research Paper 4 credit(s); prereq dept consent ; Meets CLE req of Writing Intensive;

Instructor: Payne, Leigh A

Description: Student may contact the instructor or department for information.

GLOS 3602 Other Worlds: Globalization and Culture

A-F only, 3 credit(s); prereq [3101, 3144] or instr consent;

Instructor: Messer-Davidow, Ellen

Description: "Globalization: Capital and Culture" focuses on transnational business which, as supported by neoliberal policies, has played a large role in transforming both the economic and cultural sectors. We will explore the problems in of their subsectors: economic inequality, low-wage labor, trade, and migration; the media, apparel, and food industries and cultures; the spectacles of Hollywood, beauty pageants, and shock-and-awe war; and finally globalization theory. Course readings illuminate three kinds of diversity: demographic/cultural (sex, race/ethnicity, class, nationality); disciplinary; and modality (scholarship, journalism government documents, mass-market nonfiction, etc). In addition, we will emphasize globalization's problems so that we can practice solving them as if we were public leaders and grassroots groups. To that end, the semester project can be an academic paper or a piece of writing designed to make a public intervention such as a legislative proposal or NGO report.

Style: 10% Lecture, 80% Discussion, 10% Web Based.

Percentages are approximate and may be adjusted to include other activities depending upon student needs/desires.

Grading: Around week 10, the students and I will negotiate the percentages to assign to careful reading, active class discussion, email contributions, and writing projects.

GLOS 3701W Population in an Interacting World 4 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core; meets CLE req of Writing Intensive;

Instructor: Bloch, Stefano

Description: Student may contact the instructor or department for information.

GLOS 3900 Topics in Global Studies: Genocide and Global Conflict: Armenia to Darfur

3 credit(s), max credits 15, 3 completions allowed;**Instructor:** Kennedy, Ellen Jane Nar

Description: We will explore past and present attempts by elites to exterminate targeted civilian groups beginning with the mass murder of Armenians in the Ottoman Empire; the Nazi Holocaust of the Jews and the handicapped, gypsies, and gays; the Communist-led genocide in Cambodia; the brutal genocides in Rwanda and Yugoslavia in the 1990s; and the 21st century's first genocide in Darfur, Sudan. We will look at the uniqueness of each catastrophe as well as their similarities to understand geopolitical, economic, socio-cultural, and environmental factors involved in decisions to eliminate innocent people. We will assess humanitarian intervention and peacekeeping, and study the complex issues involved in addressing needs of internally-displaced and refugee populations. The course concludes by examining post-genocidal issues of ongoing generational impact, justice, reparations, denial, and the responsibility to protect innocent civilians when their own governments are unwilling or unable to do so.

Style: 15% Lecture, 10% Film/Video, 20% Discussion, 5% Small Group Activities, 5% Student Presentation, 20% Guest Speakers, 25% Service Learning.

Grading: 17% mid exam, 17% final exam, 32% special projects, 17% in-class presentation. Students' active engagement with the material and with course activities is expected. The class will provide opportunities for students to explore the political and social consequences of genocide in activities outside of the classroom.

Exam Format: Students will receive essay questions several days before the exams and will be expected to prepare thoughtful and critical responses in class.

GLOS 3900 Topics in Global Studies: Anthropology of Hip Hop in a Global Perspective**3 credit(s), max credits 15, 3 completions allowed;****Instructor:** Riviere, Melisa

Description: The course covers the historical trajectory of hip-hop from its inception in New York City during the 1970's in the form of four elements - break dancing, rap, turntablism, and graffiti art - to its contemporary identity as a global youth phenomenon. The historical development of hip-hop will be accompanied with the analysis of scholarly works ranging from contemporary academic research to old-school rap lyrics. Literature, lectures, films and multi-media projects will individually analyze each element and question the four-element paradigm that defines hip-hop today. We will review legal cases filed against hip-hop artists and/or their publications as well as examine the role gender, class, politics, urban geography, economics, and race play in the use of hip-hop as a tool for social change versus a capitalist marketing device. Weekend workshops with local well-known hip-hop artists will amplify the theoretical focus of the course to an applied learning of lyricism, break dance, DJing, and aerosol art. The course aims to re-structure stereotypes and offer a deeper perspective into how hip-hop simultaneously defines the identities of individuals as well as the consciousness of masses. Previous class highlights from 2006 & 2008 include: ? Hands-on weekend workshops with community hip-hop artists Desdamona, DJ Fundamentalist, Carnage, b-boy Daylight, & aerosol artist CHEN (AKB). ? In class speakers filmmaker Eli Jacobs-Fantauzzi, producer Will Ways, MC/singer/songwriter Maria Isa, & DJ Drea. ? Live interviews with Fab 5 Freddy, b-girl Rokafella, & Jeff Chang.

GLOS 3900 Topics in Global Studies: The Making of Contemporary Europe**3 credit(s), max credits 15, 3 completions allowed;****Instructor:** Wolfe, Thomas C

Description: This course is an introduction to European history in the 20th century. It will be useful for first and second year students in all fields who are thinking of concentrating in European affairs, as well as for students thinking of studying abroad in Europe in their junior or senior years. It is also geared to the general student who simply wishes to better understand the dramatic events that unfolded on the European continent during the past 100 years. Its goal is to provide a basic vocabulary of events, persons, and processes that shaped this

tumultuous era. After all, this century saw two catastrophic world wars, political revolutions, depressions, a four decade long Cold War, as well as dramatic revolutions that brought the Cold War to an end. We will examine in particular the evolution of the virulent nationalisms that propelled these wars, and that brought European statesmen in the late 1940s to create supranational institutions to make future European wars impossible, institutions that in 1992 became the European Union. It will provide students with a valuable foundation for further study of contemporary European history, politics, culture and society.

Style: 50% Lecture, 50% Discussion.

Grading: 20% mid exam, 25% final exam, 40% reports/papers, 15% class participation.

Exam Format: Essay

GLOS 3900 Topics in Global Studies: Secularism and the Challenge of Religion**3 credit(s), max credits 15, 3 completions allowed;****Instructor:** Skaria, Ajay

Description: Today, we all live in a secular age. Even those who are religious must, regardless of whether they live in 'religious' or 'secular' societies or states, contend with the global power of the secular vision and secular institutions. This course will explore the intertwined emergence of modern secularism and modern religion. It will have two themes. First, it explores some key elements of the modern secular vision. It will ask questions such as: what is secular tolerance? What would be involved in a secular ethics and politics? Why have so many groups been dissatisfied with such an ethics and politics. Second, it will look at the modern remaking of religion. How and why did secularism come to identify some practices as religious? Which practices came to be thought of as religious? How and why did the right to religious freedom simultaneously become the confinement of religion to the private sphere? How and in what ways does religion come to be identified with intolerance? And what do we make to the apparent resurgence, around the world, of 'religion'? The course will be conducted primarily through discussions of readings. Grades will be on the basis of two essays (40%), as well as weekly responses (60%). Our required text will be Charles Taylor's recent *A Secular Age*. All other readings will be available online.

Grading: 40% Essays (2); 60% Weekly responses

GLOS 3900 Topics in Global Studies: 60 Years of China on Film: 1949-2009**1 credit(s), max credits 15, 3 completions allowed;****Instructor:** Chan, Ka Yee

Description: October 1, 2009 marks the sixtieth anniversary of the founding of the People's Republic of China. To mark the occasion, in November the University of Minnesota and the Walker Art Center will offer an unprecedented series of films showing the history of revolutionary and post-revolutionary China through the lens of PRC filmmakers from the 1940s to the 2000s. Films range from Mao era classics in which the young PRC establishes a 'Red' version of history, to post-Mao films that in many ways challenge the revolutionary legacy, to more current films that experiment with form and look critically at the market-driven culture of China during its current economic boom. This unique 1-credit course will meet only during the month of November. Students will attend four 2.5-hour lecture/discussion sessions on Tuesday evenings throughout the month, and students will attend a minimum of seven of the thirteen films in the series, including at least three at the Bell Auditorium (on DVD) and three at the Walker Art Center (on 35mm film). Besides film and class attendance, course requirements include regular postings to a film series blog, participation in class discussions, small group work, and short assignments. Film screening attendance and work obligations can be negotiated if advance notice is given. Film Screening Schedule: Screenings are held on Mondays and Wednesdays at 6:00pm at the Bell Auditorium throughout the month of November. Films to be shown at the Walker Art Center will be announced in the near future. Please contact Jessica Ka Yee Chan for further information (chan0770@umn.edu). Schedule is subject to change.

GLOS 3900 Topics in Global Studies: Global Migration and Photography**3 credit(s), max credits 15, 3 completions allowed;****Instructor:** Wolbert, Barbara

Description: Investigating in particular the significance of photographs in coping with migration, this course touches upon a central feature of photography--its ability to make present the absent. Rather than as recipients of images produced by mass media we look at immigrants as producers of images: Our point of departure is the socially extremely effective but often-underestimated individual image production. We will focus on private photographs, on photos taken, owned and circulated by migrants. These photographs, which may or may not depict immigrants, refugees or displaced persons open insights into immigrants' lives on multiple levels. Beyond the study of the narratives of those who are in the photo and of those, who took it and who hold on to it, the study of practices of collecting, framing, and displaying of photographs allows us to better understand processes of identification. By comparing earlier photograph collections of migrant families to more recent snapshots - analogue and digital - as well as to migrants - video, internet, and mobile phone practices, we will explore immigrants' changing sense of place and their migratory concepts. We will hence discuss legacies of first generations of immigrants and constructions of neighborhoods, real and virtual. In a second step we juxtapose these visual practices with visual representations of migration in the press and other mass media, using them as a key to public discourses on migration, shaping immigration policies and integration politics.

Style: 40% Lecture, 5% Film/Video, 40% Discussion, 10% Student Presentation, 5% Field Trips.**Grading:** 55% reports/papers, 10% quizzes, 15% in-class presentation, 20% class participation. Journal for Extra-Credit**GLOS 3900 Topics in Global Studies: Introduction to U.S. Immigration****3 credit(s), max credits 15, 3 completions allowed;****Instructor:** Park, Lisa Sun-Hee

Description: This introductory course will focus on the ways immigrant communities have transformed the foundations of American life. We will tackle three particular themes that have a significant presence within public discourse surrounding immigrants and immigration: new racial transformations, the immigrant narrative, and social citizenship. In doing this, we will discuss the impact of immigrants on the ideologies and institutions that structure our communities and society. Required texts include: *Whiteness of a Different Color*, by Matthew Frye Jacobson *Domestica*, by Pierrette Hongdagneu-Sotelo *Homebound*, by Yen Espiritu *Black Identities*, by Mary Waters *The Latehomecomer*, by Kao Kalia Yang *Entry Denied*, by Eithne Luibheid

GLOS 3921 Europe: A Geographic Perspective**3 credit(s); Credit will not be granted if credit has been received for: GEOG 3161; Meets CLE req of International Perspective Theme; meets CLE req of Social Science Core;****Instructor:** STAFF

Description: What holds Europe together, what drives it apart? Processes of geographic integration and fragmentation characterize contemporary Europe. Performances of apparently opposite phenomena take place simultaneously, e.g., of homogeneity and heterogeneity, of political integration and declining political affiliation, and of emerging local identities as well as nationalism. This course systematically addresses the changing demographic, ethnic/cultural, economic, political and urban landscapes of European regions. The purpose of the course is not only to describe the similarities and differences in the landscapes, but also to provide geographic explanations of the observed phenomena, patterns and processes. With the country project you will learn about one country in greater detail and can apply the content of the readings, debates and lectures. You are encouraged to complement the in-class discussions on the geography of Europe with your in-depth study of the country of your choice. This class fulfills the "International Perspectives" and "Social Science Core" Liberal Education requirements. The instructor, Albertine van Diepen, is a visiting professor from the

University of Amsterdam.

Style: 55% Lecture, 30% Discussion. multimedia**Grading:** 20% mid exam, 35% final exam, 35% reports/papers, 10% quizzes.**GLOS 3981W Major Project Seminar****A-F only, 3 credit(s); prereq dept consent ; Meets CLE req of Writing Intensive;****Instructor:** Craddock, Susan L**Description:** Student may contact the instructor or department for information.**GLOS 3981W Major Project Seminar****A-F only, 3 credit(s); prereq dept consent ; Meets CLE req of Writing Intensive;****Instructor:** Payne, Leigh A**Description:** Student may contact the instructor or department for information.**GLOS 3993 Directed Study****1-5 credit(s), max credits 12, 12 completions allowed; prereq instr consent , dept consent , college consent ;****Instructor:** STAFF**Description:** Student may contact the instructor or department for information.**GLOS 4311 Race, Class, and the Politics of Nature****A-F only, 3 credit(s); Meets CLE req of Environment Theme; meets CLE req of International Perspective Theme;****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 4406 Sociology of International Law****A-F only, 3 credit(s); prereq SOC 1001 or 3101 or 3102 or 3111 or instr consent ; Credit will not be granted if credit has been received for: SOC 4170; Meets CLE req of International Perspective Theme;****Instructor:** Boyle, Elizabeth Heger

Description: This course takes a broad sociological look at both international law and global culture. Students will consider particular international laws, such as the Geneva Convention and the Universal Declaration of Human Rights, and also look at international legal institutions, such as Interpol, the International Criminal Court, and the International Court of Justice. Students will explore the effect of international law on civil and political rights, economic rights, rules of war, child labor, female genital cutting, and immigration. Finally, students will engage critical questions such as the likely implications of "opting out" of international law and the circumstances under which international law is likely to lead to real changes. The course grade is based on two take-home exams, one paper, and a short documentary project.

Style: 40% Lecture, 40% Discussion. video/audio presentations

Grading: 20% mid exam, 30% final exam, 15% reports/papers, 10% class participation, 25% other evaluation. documentary

Exam Format: take-home exam

Description: Student may contact the instructor or department for information.

GLOS 5403 Human Rights Advocacy

3 credit(s); prereq Grad student or instr consent ;

Instructor: Frey,Barbara A

Description: This 3-credit seminar will study the histories, philosophies and activities of human rights activists and organizations. The course examines the theoretical basis of the human rights movement, the principles underlying key organizations in the human rights field, as well as their strategies, tactics and programs. The class provides an opportunity to put in perspective students' previous experiences as interns or staff with non-governmental organizations (NGOs) in the human rights field. The class will use case studies and other active methods to understand and to evaluate the work of human rights activists. Topics to be considered include fact-finding and documentation, campaigns on human rights issues, cultural relativism, economic rights, and corporate responsibility for human rights. Students will consider the basic organizational structure and fundraising needs of NGOs. Students will design and present a research project based on their selection of in-class topics. Readings include material on the history of NGOs; roots and development of the human rights movement; analysis of key NGOs; advocacy within international institutions; and reports and publications from NGOs working in the field.

Style: 15% Lecture, 75% Discussion. 10% Group Work

Grading: 50% reports/papers, 35% special projects, 15% in-class presentation.

GRAD 5102 Preparation for University Teaching for Nonnative English Speakers

S-N only, 2 credit(s); prereq [SPEAK score of 45 or successful completion of Foundations in English], [current or anticipated] TA assignment, instr consent ;

Instructor: Stetsenko,Elena V.

Description:

GRAD 5102 Preparation for University Teaching for Nonnative English Speakers

S-N only, 2 credit(s); prereq [SPEAK score of 45 or successful completion of Foundations in English], [current or anticipated] TA assignment, instr consent ;

Instructor: Stetsenko,Elena V.

Description:

GRAD 5105 Practicum in University Teaching for Nonnative English Speakers

S-N only, 2 credit(s); prereq [5102 or SPEAK score of 50], instr consent ;

Instructor: Meyers,Colleen Marie

Description: Student may contact the instructor or department for information.

GRAD 5105 Practicum in University Teaching for Nonnative English Speakers

S-N only, 2 credit(s); prereq [5102 or SPEAK score of 50], instr consent ;

Instructor: Meyers,Colleen Marie

Description: Student may contact the instructor or department for information.

GLOS 5900 Topics in Global Studies: Water in the World: Science, Society, Scarcity

2 credit(s), max credits 12, 3 completions allowed; prereq Jr or sr or grad student;

Instructor: Greiman,Brad

Description: Student may contact the instructor or department for information.

GRAD 5105 Practicum in University Teaching for Nonnative English Speakers

S-N only, 2 credit(s); prereq [5102 or SPEAK score of 50], instr consent ;

Instructor: Rosen,Caroline Frances

Description:

GLOS 5993 Directed Studies

1-4 credit(s), max credits 12, 12 completions allowed; prereq instr consent , dept consent , college consent ;

Instructor: STAFF

Description: Student may contact the instructor or department for information.

GRAD 5105 Practicum in University Teaching for Nonnative English Speakers

S-N only, 2 credit(s); prereq [5102 or SPEAK score of 50], instr consent ;

Instructor: Rosen,Caroline Frances

Description: Student may contact the instructor or department for information.

GLOS 5994 Directed Research

1-4 credit(s), max credits 12, 12 completions allowed; prereq instr consent , dept consent , college consent ;

Instructor: STAFF

Description: Student may contact the instructor or department for information.

GRAD 5105 Practicum in University Teaching for Nonnative English Speakers

S-N only, 2 credit(s); prereq [5102 or SPEAK score of 50], instr consent ;

Instructor: Jetter,Mary

Description:

Graduate School

316 Johnston Hall

GRAD 5102 Preparation for University Teaching for Nonnative English Speakers

S-N only, 2 credit(s); prereq [SPEAK score of 45 or successful completion of Foundations in English], [current or anticipated] TA assignment, instr consent ;

Instructor: Beers,Barbara Lee

Description: Student may contact the instructor or department for information.

GRAD 5105 Practicum in University Teaching for Nonnative English Speakers

S-N only, 2 credit(s); prereq [5102 or SPEAK score of 50], instr consent ;

Instructor: Jetter,Mary

Description: Student may contact the instructor or department for information.

GRAD 5102 Preparation for University Teaching for Nonnative English Speakers

S-N only, 2 credit(s); prereq [SPEAK score of 45 or successful completion of Foundations in English], [current or anticipated] TA assignment, instr consent ;

Instructor: Beers,Barbara Lee

GRAD 8101 Teaching in Higher Education

OPT No Aud, 3 credit(s);

Instructor: Brothen,Thomas

Description: GRAD 8101 is designed to help graduate students and post-doctoral fellows become responsive and reflective teachers. Co-teachers along with course participants will model a variety of active learning strategies and will facilitate discussions addressing educational theory and practice. By combining action and analysis, participants will explore and develop teaching skills that promote learning within a diverse student body across a

variety of settings.

GRAD 8101 Teaching in Higher Education

OPT No Aud, 3 credit(s);

Instructor: Wingert, Deborah Ann

Description: Student may contact the instructor or department for information.

GRAD 8101 Teaching in Higher Education

OPT No Aud, 3 credit(s);

Instructor: Brakke, Mary Patricia

Description: GRAD 8101 is designed to help graduate students and post-doctoral fellows become responsive and reflective teachers. Co-teachers along with course participants will model a variety of active learning strategies and will facilitate discussions addressing educational theory and practice. By combining action and analysis, participants will explore and develop teaching skills that promote learning within a diverse student body across a variety of settings.

GRAD 8101 Teaching in Higher Education

OPT No Aud, 3 credit(s);

Instructor: Gonzalez PhD, Anita Marie

Description: GRAD 8101 is designed to help graduate students and post-doctoral fellows become responsive and reflective teachers. Co-teachers along with course participants will model a variety of active learning strategies and will facilitate discussions addressing educational theory and practice. By combining action and analysis, participants will explore and develop teaching skills that promote learning within a diverse student body across a variety of settings.

GRAD 8101 Teaching in Higher Education

OPT No Aud, 3 credit(s);

Instructor: Ching, Paul

Description: GRAD 8101 is designed to help graduate students and post-doctoral fellows become responsive and reflective teachers. Co-teachers along with course participants will model a variety of active learning strategies and will facilitate discussions addressing educational theory and practice. By combining action and analysis, participants will explore and develop teaching skills that promote learning within a diverse student body across a variety of settings.

GRAD 8101 Teaching in Higher Education

OPT No Aud, 3 credit(s);

Instructor: Petersen, Christina Ingrid

Description: GRAD 8101 is designed to help graduate students and post-doctoral fellows become responsive and reflective teachers. Co-teachers along with course participants will model a variety of active learning strategies and will facilitate discussions addressing educational theory and practice. By combining action and analysis, participants will explore and develop teaching skills that promote learning within a diverse student body across a variety of settings.

GRAD 8102 Practicum for Future Faculty

S-N only, 3 credit(s); prereq [8101 or equiv], [native English speaker or [SPEAK Test score of at least 55/60 or ELP score of 1 from [5102, 5105]]];

Instructor: Alexander, Ilene Dawn

Description: GRAD 8102 is designed to give participants opportunities to apply the theories and methods learned in GRAD 8101, "Teaching in Higher Education," and to further enhance understandings of the faculty role in higher education. To accomplish these goals, PFF helps you arrange a metro-area mentoring opportunity as part of this course. Participants will teach three class sessions and observe the faculty role with the guidance of a faculty mentor. Participants explore institutional types, prepare for job searches, and share insights gained from their faculty role mentorship.

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: This course will provide you an opportunity to

expand your skills as a learning-centered instructor. Using a case study approach, you and your classmates will work through four Episodes that feature characters who are facing professional and personal challenges very similar to those faced by graduate instructors at the University of Minnesota. Topics include syllabus design, grading, dealing with difficult student situations, and writing a teaching philosophy. NOTE: This course meets entirely online; workload is 45 hours for the semester.

Greek 245 Nicholson Hall

GRK 1001 Beginning Classical Greek I

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. There are no prerequisites for this course, except for an interest in the ancient world.

Style: 50% Lecture. recitation

Exam Format: translation, grammatical analysis

GRK 3003 Intermediate Greek Prose

4 credit(s); prereq Grade of at least [C- or S] in [1002 or 5001] or instr consent credit will not be granted if credit already received for: Grk 3113; Credit will not be granted if credit has been received for: GRK 5003;

Instructor: STAFF

Description: An introduction to reading unadapted Greek prose from classical authors such as Plato, Lysias, and Xenophon. The course includes some grammar review but also considers literary issues and situates the works we study in their historical context.

Exam Format: translation/comment

GRK 5003 Intermediate Greek Prose: Graduate Student

Enrollment

3 credit(s); prereq Grade of at least [C- or S] in [1002 or 5001] or [instr consent , grad student] credit will not be granted if credit already received for: Grk 3113; Credit will not be granted if credit has been received for: GRK 3003;

Instructor: Olson, S Douglas

Description: Student may contact the instructor or department for information.

GRK 5100 Advanced Reading: Euripides: Alcestis and Bacchae

3 credit(s), max credits 18, 6 completions allowed; prereq 3004 or instr consent ;

Instructor: Sellev, Philip

Description: Close reading and discussion of two plays of Euripides: Alcestis and The Bacchae. These plays -- the first and last of this poet's tragedies to be staged at the annual dramatic festival in fifth-century Athens -- explore and critique important aspects of ancient Greek life, such as the competing values of family and society, or the innovative but potentially destructive encounters with a new god.

Style: 10% Lecture, 80% Discussion, 10% Student Presentation.

Grading: 20% mid exam, 20% final exam, 10% reports/papers, 20% quizzes, 5% attendance, 25% class participation.

GRK 5701 Prose Composition

3 credit(s); prereq Grad student or instr consent credit will not be granted if credit already received for Grk 5012;

Instructor: Smith, Stephen

Description: Student may contact the instructor or department

for information.

format.

GRK 5800 Sight Reading for Graduate Students

S-N only, 1 credit(s), max credits 6, 6 completions allowed; prereq Enrollment in a grad program in Department of Classical/Near Eastern Studies;

Instructor: Sellw, Philip

Description: Student may contact the instructor or department for information.

GRK 8100 Readings in Greek Prose

3 credit(s), max credits 18, 6 completions allowed; prereq Advanced grad student;

Instructor: Belfiore, Elizabeth S

Description: Student may contact the instructor or department for information.

Health Informatics

777 Mayo (Mayo Mail Code 511)

HINF 5430 Health Informatics I

A-F only, 4 credit(s);

Instructor: Gatewood PhD, Lael Cranmer

Description: Student may contact the instructor or department for information.

HINF 5436 Seminar

S-N only, 1 credit(s);

Instructor: Speedie, Stuart M

Description: Student may contact the instructor or department for information.

HINF 5494 Topics in Health Informatics

1-6 credit(s), max credits 6, 1 completion allowed; prereq instr consent;

Instructor: Connelly, Donald P

Description: Student may contact the instructor or department for information.

HINF 5496 Internship in Health Informatics

S-N only, 1-6 credit(s), max credits 18, 3 completions allowed; prereq 5430, 5431, instr consent ;

Instructor: Connelly, Donald P

Description: Student may contact the instructor or department for information.

HINF 5499 Capstone Project for the Masters of Health Informatics

A-F only, 3 credit(s); prereq [[5430, 5431] or instr consent], MHI student;

Instructor: Speedie, Stuart M

Description: Student may contact the instructor or department for information.

HINF 8446 Professional Studies in Health Informatics

A-F only, 1-2 credit(s), max credits 2, 1 completion allowed; prereq 5431, PubH 5452 or instr consent, grad hlth inf major;

Instructor: Gatewood PhD, Lael Cranmer

Description: Student may contact the instructor or department for information.

Health Systems Management

20 Classroom Office Building

HSM 4561 Health Care Administration and Management

A-F only, 3 credit(s); prereq 45 cr;

Instructor: Henry, William Floyd

Description: For details on this course, go to <http://idwebdb.cce.umn.edu/courses.asp> and search for online

Hebrew

245 Nicholson Hall

HEBR 1001 Beginning Hebrew I

5 credit(s); Credit will not be granted if credit has been received for: HEBR 4001;

Instructor: Schneller, Renana Segal

Description: Modern Israeli Hebrew seeks to serve several kinds of students. Typically, students in this course present a wide variety of backgrounds and interests, which include Jewish, or Israeli cultural studies, archaeology, linguistics, travel or work in Israel, and biblical studies. This is a course for complete beginners. You will learn basic listening, speaking, reading and writing skills with stress on proficiency in communication. Cultural materials are incorporated. The course serves as a good base for subsequent work in biblical Hebrew. The difference between this course and Hebr 1104, Biblical Hebrew, is that this course has a spoken, conversation component and prepares students to read texts without the diacritic marks. (This reading skill is necessary for those interested in reading Hebrew journal articles and post-biblical Hebrew commentaries.) The pronunciation of Hebrew taught will be the same in both courses.

Style: 50% Lecture, 50% Discussion. audio/video tapes, games, activities

Grading: 20% mid exam, 25% final exam, 20% reports/papers, 25% quizzes, 10% class participation.

Exam Format: multiple choice and essay

HEBR 1101 Beginning Biblical Hebrew I

5 credit(s); Credit will not be granted if credit has been received for: HEBR 4104;

Instructor: STAFF

Description: This five credit course, which is the first of a two semester series, provides a logical introduction to the language, grammar, and vocabulary of the Hebrew Bible/Old Testament. We work systematically through a standard textbook and begin to read actual samples of biblical texts. 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 grammar of medieval and modern Hebrew, and provides the essential background for subsequent work in graduate school or seminary. Students will also learn ways to approach learning a classical language. Classes will include grammar exercises, translation, and oral drills. Required Texts Thomas O. Lambdin, Introduction to Biblical Hebrew (New York: Scribners, 1971). Gary A. Long, Grammatical Concepts 101 for Biblical Hebrew: Learning Biblical Hebrew Grammatical Concepts Through English Grammar (Peabody, MA: Hendrickson, 2002) Course Reader. WebCT will be used for class communication and to provide access to supplemental resources and links for the study of Biblical Hebrew.

Style: 70% Lecture, 30% Discussion.

Grading: 40% mid exam, 25% final exam, 20% quizzes, 15% other evaluation. homework

Exam Format: grammar and translation exercises

HEBR 3011 Intermediate Hebrew I

5 credit(s); prereq Grade of at least [C- or S] in [1002 or 4002] or instr consent ; Credit will not be granted if credit has been received for: HEBR 4011;

Instructor: Schneller, Renana Segal

Description: This course assumes Hebr 1001-2 or other equivalent language study. It leads to the satisfaction of the CLA Language Requirement in: 1) listening comprehension, 2) speaking, 3) reading, 4) writing. The course materials and activities are designed to help students gain the skills necessary in each of these areas. We recognize that you may well have forgotten some of the skills acquired and the "rust" will have to be removed. There is a rapid review of fundamentals followed by a selection of dialogues designed to serve as a bridge between 1st and 2nd year Hebrew. Simple selections from Modern Israeli

prose, newspaper, and the arts from the transition to written Israeli Hebrew. T.V. news and films are added as your ability increases. Grammatical skills and writing will be honed through short compositions and a textbook manual. Text: "Hebrew from Scratch" part II

Style: 50% Lecture, 50% Discussion.

Grading: 20% mid exam, 25% final exam, 20% reports/papers, 25% quizzes, 10% class participation.

Exam Format: written and oral responses

HEBR 3951W Major Project

4 credit(s); prereq [Hebr major, three 3xxx Hebrew courses], instr consent, dept consent; Meets CLE req of Writing Intensive;

Instructor: STAFF

Description: Student may contact the instructor or department for information.

HEBR 3980 Directed Instruction

1-4 credit(s), max credits 4, 1 completion allowed; prereq college consent ;

Instructor: STAFF

Description: Student may contact the instructor or department for information.

HEBR 3993 Directed Studies

1-4 credit(s), max credits 4, 1 completion allowed; prereq instr consent ;

Instructor: Schneller, Renana Segal

Description: Student may contact the instructor or department for information.

HEBR 4001 Beginning Hebrew I

3 credit(s); prereq grad student; Credit will not be granted if credit has been received for: HEBR 1001;

Instructor: Schneller, Renana Segal

Description: Modern Israeli Hebrew seeks to serve several kinds of students. Typically, students in this course present a wide variety of backgrounds and interests, which include Jewish, or Israeli cultural studies, archaeology, linguistics, travel or work in Israel, and biblical studies. This is a course for complete beginners. You will learn basic listening, speaking, reading and writing skills with stress on proficiency in communication. Cultural materials are incorporated. The course serves as a good base for subsequent work in biblical Hebrew. The difference between this course and Hebr 1104, Biblical Hebrew, is that this course has a spoken, conversation component and prepares students to read texts without the diacritic marks. (This reading skill is necessary for those interested in reading Hebrew journal articles and post-biblical Hebrew commentaries.) The pronunciation of Hebrew taught will be the same in both courses.

HEBR 4011 Intermediate Hebrew I

3 credit(s); prereq Grade of at least [C- or S] in [1002 or 4002] or instr consent ; Credit will not be granted if credit has been received for: HEBR 3011;

Instructor: Schneller, Renana Segal

Description: Student may contact the instructor or department for information.

HEBR 4104 Basics of Biblical Hebrew I

3 credit(s); prereq grad student; Credit will not be granted if credit has been received for: HEBR 1101;

Instructor: STAFF

Description: This five credit course, which is the first of a two semester series, provides a logical introduction to the language, grammar, and vocabulary of the Hebrew Bible/Old Testament. We work systematically through a standard textbook and begin to read actual samples of biblical texts. 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 grammar of medieval and modern Hebrew, and provides the essential background for subsequent work in graduate school or seminary. Students will also learn ways to approach learning a classical language. Classes will include grammar exercises, translation, and oral drills. Required

Texts Thomas O. Lambdin, Introduction to Biblical Hebrew (New York: Scribners, 1971). Gary A. Long, Grammatical Concepts 101 for Biblical Hebrew: Learning Biblical Hebrew Grammatical Concepts Through English Grammar (Peabody, MA:

Hendrickson, 2002) Course Reader. WebCT will be used for class communication and to provide access to supplemental resources and links for the study of Biblical Hebrew.

Style: 70% Lecture, 30% Discussion.

Grading: 40% mid exam, 25% final exam, 20% quizzes, 15% other evaluation. homework

Exam Format: grammar and translation exercises

HEBR 5090 Advanced Modern Hebrew

3 credit(s), max credits 18, 6 completions allowed; prereq 3012 or [instr consent , grad student];

Instructor: Schneller, Renana Segal

Description: Student may contact the instructor or department for information.

HEBR 5992 Directed Readings

1-4 credit(s), max credits 12, 12 completions allowed; prereq instr consent , dept consent , college consent ;

Instructor: STAFF

Description: Student may contact the instructor or department for information.

Hindi 453 Folwell Hall

HNDI 3131 Intermediate Hindi

5 credit(s); prereq 1102 or instr consent; Credit will not be granted if credit has been received for: HNDI 4003;

Instructor: Prasad, R

Description: This course is based on Sheela Verma's textbook. In addition, in order for the students to improve their speaking and listening skills, video and lab sessions will be held on a weekly basis. Usually the group is diverse in terms of background and interests. Therefore, individual readings are assigned every other week and reported on orally and in an essay form.

Style: 30% Lecture, 60% Discussion, 10% Laboratory.

Grading: 25% mid exam, 25% final exam, 20% quizzes, 20% class participation, 10% laboratory evaluation.

HNDI 3131 Intermediate Hindi

5 credit(s); prereq 1102 or instr consent; Credit will not be granted if credit has been received for: HNDI 4003;

Instructor: Bazaz, Abir Bashir

Description: Student may contact the instructor or department for information.

HNDI 4003 Intermediate Hindi

3 credit(s); prereq 4002, grad student; Credit will not be granted if credit has been received for: HNDI 3131;

Instructor: Prasad, R

Description: Student may contact the instructor or department for information.

HNDI 4003 Intermediate Hindi

3 credit(s); prereq 4002, grad student; Credit will not be granted if credit has been received for: HNDI 3131;

Instructor: Bazaz, Abir Bashir

Description: Student may contact the instructor or department for information.

HNDI 4161 Advanced Hindi

4 credit(s); prereq 3132 or instr consent;

Instructor: Prasad, R

Description: Student may contact the instructor or department for information.

HNDI 5993 Directed Readings

1-4 credit(s), max credits 12, 3 completions allowed; prereq instr consent, dept consent, college consent;

Instructor: Sawhney, Simona

Description: Student may contact the instructor or department for information.

HNDI 5993 Directed Readings

1-4 credit(s), max credits 12, 3 completions allowed; prereq instr consent, dept consent, college consent;

Instructor: Sahota, G.S.

Description: Student may contact the instructor or department for information.

Hindi and Urdu

453 Folwell Hall

HNUR 1101 Beginning Hindi and Urdu

5 credit(s); prereq credit will not be granted if credit already received for: HNDI 1101/4001 and URDU 1101/4001; Credit will not be granted if credit has been received for: HNUR 4001;

Instructor: Prasad, R

Description: Student may contact the instructor or department for information.

HNUR 1101 Beginning Hindi and Urdu

5 credit(s); prereq credit will not be granted if credit already received for: HNDI 1101/4001 and URDU 1101/4001; Credit will not be granted if credit has been received for: HNUR 4001;

Instructor: Durham-Shapiro, Emily

Description: Student may contact the instructor or department for information.

HNUR 4001 Beginning Hindi and Urdu

3 credit(s); prereq credit will not be granted if credit already received for: HNDI 1101/4001 and URDU 1101/4001; Credit will not be granted if credit has been received for: HNUR 1101;

Instructor: Prasad, R

Description: Student may contact the instructor or department for information.

HNUR 4001 Beginning Hindi and Urdu

3 credit(s); prereq credit will not be granted if credit already received for: HNDI 1101/4001 and URDU 1101/4001; Credit will not be granted if credit has been received for: HNUR 1101;

Instructor: Durham-Shapiro, Emily

Description: Student may contact the instructor or department for information.

History

1110 Heller Hall

HIST 1000W Visions of the Past: Thematic Approaches to Understanding History: The Family from 10,000 BCE to the Present

A-F only, 0 credit(s), max credits 8; prereq Fr or soph or fewer than 60 cr 1000W and 3000W-level of the same sect/version of Hist 1000W/3000W shall be considered equiv; students may not register for Hist 3000W when the Hist 1000W version was successfully completed.; Meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive;

Instructor: Maynes, Mary Jo

Description: HIST 1/3000w - Visions of the Past: The Family from 10,000 BCE to the Present Since the beginning of human culture, the family has been a key site where world-historical processes have unfolded. Family life, in turn, has always been

shaped by local and global historical dynamics. These two observations provide the starting point for this course. The course is organized around family dimensions of world history from pre-historic times to the present. We begin by examining the family as the site of emergence of the earliest human societies and evaluate evidence of family life and gender relations that challenge older notions of "Man the Hunter." We then look at connections between the evolution of family relations and the development of complex societies, states, and organized religions, drawing on evidence from several regions of the ancient world such as Mesopotamia, South Asia, and Africa. We explore how family practices help to account for the historical fate of different world regions in the era of European colonization that began around 1500. We look at the roles played by gender and generational relations in particular modernizing revolutions ranging from the French Revolution to the May Fourth Movement of China. We examine how political conflicts over the family played into fascist and colonial regimes and the Cold War in the 20th century. We end by examining the role of families in today's global economies and cultures in the Global North and the Global South. Throughout the course we will discuss the historical role of beliefs about family as well as family practices, and also in the family metaphors that shape political community (for example, the Five Relationships of Confucianism, the connection between royal power and paternal power in early modern Europe, or modern nationalist appeals to blood ties as the basis of citizenship). We draw on a wide range of historical sources including archaeological evidence, fiction, art and oral history as well as legal codes, census records, and memoirs. In weekly labs that are part of the course, students will investigate and learn to interpret a wide range of sources from which family history is reconstructed. Lectures, labs, and assignments will show how family life, often thought of as a relatively unchanging realm of merely private and local interest, in fact has played and continues to play a major role in world history.

Style: 45% Lecture, 15% Discussion, 15% Laboratory, 10% Small Group Activities, 5% Student Presentation, 5% Field Trips, 5% Web Based.

Grading: 10% mid exam, 30% reports/papers, 5% special projects, 10% attendance, 15% reflection paper, 5% in-class presentation, 10% class participation, 15% laboratory evaluation. There will be a variety of forms of reports and papers; assignments include in-class or in-lab writing as well as writing done at home and brought to class and to the lab sections.

Exam Format: The mid-term exam will be a take-home. The final assignment is a paper not an exam.

HIST 1000W Visions of the Past: Thematic Approaches to Understanding History: Twin Cities History

A-F only, 4 credit(s), max credits 8; prereq Fr or soph or fewer than 60 cr 1000W and 3000W-level of the same sect/version of Hist 1000W/3000W shall be considered equiv; students may not register for Hist 3000W when the Hist 1000W version was successfully completed.; Meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive;

Instructor: Murphy, Kevin P.

Description: Twin Cities History surveys the dynamic history of the Minneapolis and St. Paul metropolitan region. The course incorporates lectures, discussions, and multimedia presentations that focus on the area's diverse populations and cultures and on the economic, political, and social developments that have shaped the modern metropolis. The course is also intended to offer students first-hand encounters with the Twin Cities past and present; scheduled activities include visits to museums, historic sites, and area landmarks. Specific historical topics include: the development of the region's milling economy; the experiences and activism of American Indians in the region; prohibition and crime in St. Paul in the Great Depression; the 1934 Minneapolis Trucker's Strike; suburban growth and mall culture; and Twin Cities' music scenes in the late 20th century

HIST 1012W The Age of Global Contact

4 credit(s); prereq Fr or soph or [[jr or sr], non-hist major]; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme; meets CLE req of

Writing Intensive;**Instructor:** 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. The course will move around the globe following these trends: we land in England, France, Russia, the American colonies, Haiti, west Africa, India, China, Japan, Taiwan, and Korea, and not in that order. Emphasis will be placed on reading and interpreting a variety of primary documents from around the world. 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 the discussion section, there will be serious emphasis on the development of writing skills. The course is designed to fulfill lower-division writing-intensive requirements.

HIST 1015W Globalization: Issues and Challenges

A-F only, 4 credit(s); prereq Fr or soph or [[jr or sr], non-hist major]; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme; meets CLE req of Writing Intensive;

Instructor: Farmer, Edward L

Description: This class is an ambitious and demanding course designed as an introduction to global history in the last fifty years. The course will provide you with a framework for thinking about the recent past, world geography, and some general trends. The course is organized comparatively, and will emphasize selected "cases" in Asia (The People's Republic of China and the Republic of China), Africa (South Africa and Mozambique) and Latin America (Cuba and Guatemala). Throughout the course we will not only attempt to understand the big picture of global history (East West rivalry in the Cold War, the North South division in development, global ecology and economy) but also how changes have affected people's everyday lives. We do this through the concepts of livelihood and identity that reveal the impact of national and international forces at the personal level. We will seek out the "voices" of individuals by reading short stories and biographical accounts.

Style: 50% Lecture, 40% Discussion. Peer Review of Writing
Grading: 25% mid exam, 20% final exam, 30% reports/papers, 25% class participation.

Exam Format: Identification 20%; Essay 80%**HIST 1015W Globalization: Issues and Challenges**

A-F only, 4 credit(s); prereq Fr or soph or [[jr or sr], non-hist major]; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme; meets CLE req of Writing Intensive;

Instructor: Hakim, Carol

Description: This class is an ambitious and demanding course designed as an introduction to global history in the last fifty years. The course will provide you with a framework for thinking about the recent past, world geography, and some general trends. The course is organized comparatively, and will emphasize selected "cases" in Asia (The People's Republic of China and the Republic of China), Africa (South Africa and Mozambique) and Latin America (Cuba and Guatemala). Throughout the course we will not only attempt to understand the big picture of global history (East West rivalry in the Cold War, the North South division in development, global ecology and economy) but also how changes have affected people's everyday lives. We do this through the concepts of livelihood and identity that reveal the impact of national and international forces at the personal level. We will seek out the "voices" of individuals by reading short stories and biographical accounts.

Style: 50% Lecture, 40% Discussion. Peer Review of Writing
Grading: 25% mid exam, 20% final exam, 30% reports/papers, 25% class participation.

Exam Format: Identification 20%; Essay 80%**HIST 1017 Origins: Global Societies Before 1500**

3 credit(s); Credit will not be granted if credit has been received for: HIST 1011W; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect

Theme;**Instructor:** Faeth, Michael

Description: Student may contact the instructor or department for information.

HIST 1027 Europe and the World: Expansion, Encounter, and Exchange from 1500 to Present

3 credit(s); Credit will not be granted if credit has been received for: HIST 1032V; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme;

Instructor: Pekel, Bryan D

Description: Student may contact the instructor or department for information.

HIST 1031W Europe and the World: Expansion, Encounter, and Exchange to 1500

4 credit(s); prereq [Fr or soph or [[jr or sr], non-hist major]; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme; meets CLE req of Writing Intensive;

Instructor: Reyerson, Kathryn L

Description: Europe in the making from Hammurabi to Columbus; conflict, co-existence, and cultural exchange in the first global age: religion (Moses, Jesus, Mohammad); power (Cleopatra, Alexander the Great, Ghengis Khan); conquest (Spartans, Romans, Vikings); culture (Greek sculpture, Islamic philosophy, Mesopotamian epic); everyday life (family life, the commercial revolution, the heavy plough!) This course will trace the emergence of western history from Mesopotamia and Egypt about 3000 B. C. E. to the first expansion into North America about 1500 C. E. Reading, writing, and arithmetic, as well as universities developed in this period. Democracy, the common law, and the idea of the nation-state did as well. So too patriarchy, slavery, and religious intolerance. We will pursue our subject by engaging intensely with the original documentary remains of the period, including several masterpieces of world culture. This course is suitable for majors, non-majors, and transfer students alike. This course will introduce students to some of the major issues, events, and ideas in the history of pre-modern Europe in a global context. A major aim of the course is to teach students to discover the past for themselves. To achieve this end, emphasis will be placed on the analysis of primary sources, the original documents of the past. The course reader, the format of discussions sections, the exams, and especially the written assignments have been designed with this emphasis in mind. Core-Historical Perspectives; Writing Intensive. Global Perspectives theme pending. A course web-site, URL to be announced, will accompany the course.

Style: 50% Lecture, 50% Discussion.

Grading: 15% mid exam, 25% final exam, 40% written homework, 20% class participation.

Exam Format: Identifications and essays**HIST 1301W Authority and Rebellion: American History to 1865**

4 credit(s); prereq Fr or soph or [[jr or sr], non-hist major]; Credit will not be granted if credit has been received for: HIST 1301V; Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive;

Instructor: Deutsch, Tracey A

Description: Student may contact the instructor or department for information.

HIST 1308 Global America: U.S. History Since 1865

3 credit(s); Credit will not be granted if credit has been received for: HIST 1302W; Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core;

Instructor: Epstein, Seth

Description: The subject of our class is American history from 1865 to the present. It is a survey course presented thematically. We will examine both domestic and international contexts and their relationship to one another. Of special interest to me are the roles played by claims of innocence in legitimizing and contesting power relations and visions of freedom. What is the

role of innocence in the exercise of power? How have claims of innocence been used to legitimize not only power, but protest and reform as well? Who decided what is innocent? Our explorations of processes and events in U.S. history will be informed by these questions. Centering innocence as an organizing theme allows us the chance to explore many different areas of American history, including religion, historical memory, colonialism and empire, internationalism, and violence. Readings include book chapters, academic articles and primary documents including a novel and an autobiography. Student grades will be based on participation, attendance and quizzes, two short essays, and a final exam that is cumulative.

Style: 50% Lecture, 50% Discussion.

Grading: 25% final exam, 50% reports/papers, 25% attendance. Each paper is 25% Attendance, quizzes, and in-class participation are cumulatively 25%.

HIST 1902 Freshman Seminar: Asian American and US Race Relations

A-F only, 3 credit(s); prereq freshman; Meets CLE req of Cultural Diversity Theme;

Instructor: Lee, Erika

Description: While the Asian American population is one of the fastest growing in the United States, it remains largely misrepresented or ignored in American culture and politics. This seminar will examine the place of Asian Americans in U.S. race relations through law, history, sociology, and popular culture. We will begin by asking the questions: Where do Asian Americans fit into the larger multiracial context of the U.S. and theories of race relations? What does it mean when Asian Americans are described as "perpetual foreigners," the "yellow peril," "potential terrorists," "honorary whites," or "model minorities"? How have Asian Americans experienced racism and discrimination? What are some contemporary race issues affecting Asian Americans, and what are they doing about them? What is the importance of race in the "age of Obama"?

HIST 1907W Freshman Seminar: Masculinities in the Americas

A-F only, 3 credit(s); prereq freshman; Meets CLE req of Cultural Diversity Theme; meets CLE req of Writing Intensive;

Instructor: Lindquist, Malinda A

Description: Everyone knows what a real man is. Real men are masculine, but what does that mean, anyway? This course asks a series of questions: What has it meant to be a man in the Americas? What did it mean to be a "man" before the term "masculine" was even popularized? Do "manhood" and "masculinity" matter? By exploring changing meanings of manhood and the complicated constructions of masculinity in the 19th and 20th centuries, this seminar argues that understanding "men," "manhood," and "masculinity" is central to understanding United States history. From citizenship and slavery, war and peace, and sport and drink, to labor and civil rights and cowboys and the hip hop generation, the history of being man will be used to both illuminate and fundamentally redefine your approach to U.S. history.

HIST 1909W Freshman Seminar

S-N only, 3 credit(s), max credits 6; prereq freshman; Meets CLE req of International Perspect Theme; meets CLE req of Writing Intensive;

Instructor: STAFF

Description: Student may contact the instructor or department for information.

HIST 3000W Visions of the Past: Thematic Approaches to Understanding History: The Family from 10,000 BCE to the Present

A-F only, 0 credit(s), max credits 8; prereq Jr or sr or at least 60 cr; Meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive;

Instructor: Maynes, Mary Jo

Description: HIST 1/3000w - Visions of the Past: The Family from 10,000 BCE to the Present Since the beginning of human culture, the family has been a key site where world-historical processes have unfolded. Family life, in turn, has always been

shaped by local and global historical dynamics. These two observations provide the starting point for this course. The course is organized around family dimensions of world history from "pre-historic" times to the present. We begin by examining the family as the site of emergence of the earliest human societies and evaluate evidence of family life and gender relations that challenge older notions of "Man the Hunter." We then look at connections between the evolution of family relations and the development of complex societies, states, and organized religions, drawing on evidence from several regions of the ancient world such as Mesopotamia, South Asia, and Africa. We explore how family practices help to account for the historical fate of different world regions in the era of European colonization that began around 1500. We look at the roles played by gender and generational relations in particular modernizing revolutions ranging from the French Revolution to the May Fourth Movement of China. We examine how political conflicts over the family played into fascist and colonial regimes and the Cold War in the 20th century. We end by examining the role of families in today's global economies and cultures in the Global North and the Global South. Throughout the course we will discuss the historical role of beliefs about family as well as family practices, and also in the family metaphors that shape political community (for example, the Five Relationships of Confucianism, the connection between royal power and paternal power in early modern Europe, or modern nationalist appeals to blood ties as the basis of citizenship). We draw on a wide range of historical sources including archaeological evidence, fiction, art and oral history as well as legal codes, census records, and memoirs. In weekly labs that are part of the course, students will investigate and learn to interpret a wide range of sources from which family history is reconstructed. Lectures, labs, and assignments will show how family life, often thought of as a relatively unchanging realm of merely private and local interest, in fact has played and continues to play a major role in world history.

Style: 45% Lecture, 15% Discussion, 15% Laboratory, 10% Small Group Activities, 5% Student Presentation, 5% Field Trips, 5% Web Based.

Grading: 10% mid exam, 30% reports/papers, 5% special projects, 10% attendance, 15% reflection paper, 5% in-class presentation, 10% class participation, 15% laboratory evaluation. There will be a variety of forms of reports and papers; assignments include in-class or in-lab writing as well as writing done at home and brought to class and to the lab sections.

Exam Format: The mid-term exam will be a take-home. The final assignment is a research paper not an exam.

HIST 3000W Visions of the Past: Thematic Approaches to Understanding History: Twin Cities History

A-F only, 4 credit(s), max credits 8; prereq Jr or sr or at least 60 cr; Meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive;

Instructor: Murphy, Kevin P.

Description: Twin Cities History surveys the dynamic history of the Minneapolis and St. Paul metropolitan region. The course incorporates lectures, discussions, and multimedia presentations that focus on the area's diverse populations and cultures and on the economic, political, and social developments that have shaped the modern metropolis. The course is also intended to offer students first-hand encounters with the Twin Cities past and present; scheduled activities include visits to museums, historic sites, and area landmarks. Specific historical topics include: the development of the region's milling economy; the experiences and activism of American Indians in the region; prohibition and crime in St. Paul in the Great Depression; the 1934 Minneapolis Trucker's Strike; suburban growth and mall culture; and Twin Cities' music scenes in the late 20th century

HIST 3010W Historical Research Seminar: European Christians in Islamic Empires, 1450-1750

A-F only, 3 credit(s), max credits 12, 4 completions allowed; prereq Must have completed one 1xxx or 1 xxx level introductory survey course. Students may not repeat for credit the same section (or topic); Meets CLE req of Writing Intensive;

Instructor: Ragnow, Marguerite

Description: During the period from ca 1450 to 1750, European states faced off against (and also traded with) great Islamic empires based in Asia Minor, Iran, and India. While few Muslim reports about the Christian west have survived, Europeans wrote copiously about the Muslim lands they came to know as merchants, diplomats, soldiers, missionaries, captives, or travelers. A great number of these treatises are held by the James Ford Bell Library, many in English or in English translations. This course lets students look over the shoulders of authors who struggled, centuries ago, to comprehend a world that was alien to everything they believed in, yet powerful in war, rich in populous cities, and strangely appealing. Students will choose a pertinent source (book) from the Bell collection, frame a thesis-question worth pursuing, and write a 15-page paper.
Style: 20% Lecture, 70% Discussion, 10% Student Presentation.
Grading: 65% reports/papers, 5% quizzes, 30% class participation. In-class presentations will be part of your class participation grade. 15% of the paper percentage noted above will be for a preliminary bibliography.

HIST 3051 Ancient Civilization: Near East and Egypt

3 credit(s);

Instructor: Mummey, Kevin Dean

Description: Student may contact the instructor or department for information.

HIST 3053 Ancient Civilization: Rome

3 credit(s);

Instructor: Gallia, Andrew B

Description: This course provides a general introduction to the broad sweep of Roman history, from the emergence of their civilization, through the growth and conquest of an enormous (and remarkably stable) empire, to the break-up and transformation of the western empire in the fourth century of our era. We will look at the cultural underpinnings of Roman power as well as its inner workings in order to get some sense of what it meant to live under Roman rule.

Style: 80% Lecture, 10% Discussion, 10% Small Group Activities.

Grading: 35% final exam, 25% reports/papers, 30% quizzes, 10% class participation.

HIST 3152 British History From the Seventeenth Century

4 credit(s); prereq credit will not be granted if credit received for: 3152W; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Historical Perspective Core;

Instructor: Windel, Aaron Matthew

Description: Student may contact the instructor or department for information.

HIST 3244 History of Eastern Europe

3 credit(s);

Instructor: Cohen, Gary B.

Description: 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 problems of 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: 25% final exam, 25% reports/papers, 10% class participation, 40% other evaluation. 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 3281 European Intellectual History: The Early Modern Period, Antiquity to 1750

3 credit(s); Credit will not be granted if credit has been received for: HUM 3281;

Instructor: Shank, JB

Description: This course is part I of a two-semester introduction to modern European intellectual history. It will cover the period that stretches from the beginnings of modern European thought in Antiquity up to the eighteenth century. The course will study thinkers such as Plato, Aristotle, Paul, Augustine, Aquinas, Machiavelli, Galileo, Descartes, Bacon, Spinoza, Leibniz, and Newton. Topics will range from the relationship between myth and philosophy in Antiquity, to the role of Christianity and Islam as new philosophical-religious programs, and the connection between the global expansion of Europe after 1492 and the rise of modern science and philosophy. Readings will be drawn from the original philosophical texts of the historical figures we will study, and the class will combine lectures with intensive discussion. Students will be asked to write short weekly papers analyzing the texts they are reading, and longer critical essays as their primary written assignment.

Style: 60% Lecture, 40% Discussion.

Grading: 60% reports/papers, 25% written homework, 15% class participation.

HIST 3347 Women in Early and Victorian America: 1600-1890

3 credit(s), max credits 5; Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core;

Instructor: Martino, Gina Michelle

Description: Student may contact the instructor or department for information.

HIST 3349 U.S. Women's Legal History

A-F only, 3 credit(s); prereq [Jr or sr], basic grasp of U.S. history; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Cultural Diversity Theme;

Instructor: Welke, Barbara Young

Description: Throughout American history the law has assigned rights and duties differently for women than for men, and differently among women depending on race, class, nationality, and sexuality. This small (capped at 25 students), evening, discussion intensive course will provide students with a broad foundation in women's legal status from the colonial era through the 20th century. We will examine gendered aspects of American legal history, including citizenship; political and civil rights; marriage, divorce, and child custody; reproductive and physical autonomy; and economics and educational equality. We will be reading judges opinions, statutes, and other legal documents, as well as monographs, and watching films and listening to tapes of oral arguments before the U.S. Supreme Court. The course is designed for upper-division undergraduates. No legal background is anticipated, but a basic grasp of U. S. history is assumed. The reading load will vary from week to week, but in some weeks will require reading an entire book. The informal writing assignments reward reading and make for better discussions. We will also focus serious attention on writing. It sounds intense and it is, but it's also a lot of fun.

Style: 25% Lecture, 75% Discussion.

Grading: 75% reports/papers, 25% class participation.

Exam Format: no exams

HIST 3401W Early Latin America to 1825

A-F only, 4 credit(s); Credit will not be granted if credit has been received for: LAS 3401W; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspective Theme; meets CLE req of Writing Intensive;

Instructor: Chambers, Sarah C

Description: In 1519, Spaniard Hernan Cortes entered the dazzling capital city of the Mexica (Aztec) empire; what happened next depends upon whose versions of events you read. European accounts emphasize his daring capture of

emperor Moctezuma and his rapid domination of central Mexico by the use of his wits and superior technology. Native accounts reveal that the capture of Moctezuma backfired, leading to a lengthy and heroic defense of the island city. Regardless of the telling, such encounters and struggles set the stage for European rule of the Americas for the next three centuries. This course begins with pre-contact Native American societies, but primarily explores the historical processes of colonialism in Latin America (especially Mexico, Brazil and Peru) between 1492 and 1825. We will study both the economic, religious, and administrative systems put in place by the Europeans, and the varied responses of indigenous peasants, African slaves, racially-mixed town dwellers, and women. We will learn to analyze primary documents from the period (such as the competing accounts of the conquest of Mexico) and read life stories as well as historical narratives. All students register for a discussion section. If you would like to practice your Spanish, sign up for the FLAC Section 5, in which you can read and discuss documents in the original Spanish. (Spanish majors: you can count this as your one degree course outside your department under the new rules).

Style: 65% Lecture, 35% Discussion.

Grading: 20% final exam, 50% reports/papers, 15% quizzes, 15% class participation.

Exam Format: i.d. terms and short essays

HIST 3415 Migrations in Modern Global History

3 credit(s);

Instructor: Gabaccia, Donna

Description: Heated debates about the impact of immigration, emigration, and resident foreigners trouble every corner of today's world. The purpose of this course is to extend students' understanding of migration beyond the United States, and beyond the present, so that they can better assess and participate in these debates. The course begins with a fundamental and unresolved issue in early human history: if humans are "naturally" sedentary, how did they come to populate the world? The remainder of the course focuses on the past 500 years of human mobility. It acknowledges that the U.S. is regarded worldwide as the paradigmatic "nation of immigrants," but it focuses on the global systems or "networks of migration" in which North America has long been enmeshed. It compares the encounters of natives and newcomers (slave and free alike) in Europe's Atlantic empires and explores how new nations in North and South America sought to repopulate their countries with immigrants in the nineteenth century. It shows how the abolition of the slave trade and trade contributed to an earlier era of globalization by creating a market for migratory labor that linked Atlantic and Pacific economies. It compares immigrants living, working or fleeing as refugees to Latin America, Europe and Asia and it explores the consequences of widespread restrictions on human mobility in the twentieth century. Throughout the course migrants' own stories about their lives supplement readings from history and the social sciences.

Style: 50% Lecture, 50% Discussion.

Grading: 75% reports/papers, 25% class participation.

HIST 3417 Food in History

3 credit(s);

Instructor: Pilcher, Jeffrey Michael

Description: Modern society is 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. And we have it easy, historically speaking. Our ancestors were obsessed with the basic problem of avoiding starvation. This course is intended to help understand the significance of food in society from the earliest gatherers and hunters to the present with three main areas of focus. First, the class will examine the historical antecedents to the contemporary globalization of foods as well as the ways in which people have resisted globalization. Second, we will discuss how foods have helped to create and reinforce hierarchies in societies around the world. A third major theme will be the modern transformation of global diets caused by industrialization, colonialism, and proletarian migrations. The course will conclude by examining contemporary issues including the global spread of the fast food, biotechnology and

the green revolution as well as body image and fusion cuisine.

Style: 70% Lecture, 30% Discussion.

Grading: 15% mid exam, 25% final exam, 60% written homework.

Exam Format: Essay

HIST 3431 Early Africa and Its Global Connections

4 credit(s); Credit will not be granted if credit has been received for: AFRO 3431; Meets CLE req of Historical Perspective Core;

Instructor: Masakure, Clement

Description: Early African farmers and hunters, men and women, kings and queens, commoners and slaves long stood at the center - not the margins -- of global change. From the rise of agriculture to the culmination of the slave trades, Africans actively borrowed ideas, technologies, and foods, guns, and other goods from Asian and European "strangers". But they profoundly influenced these strangers as well, contributing their innovative ideas, technologies, cultural expressions, and wealth. Through close study of oral traditions, epics, archaeological data, food, autobiography, and film, we will investigate early Africans' global connections. Environment plays an important role in our study; we explore the ways that Africans creatively adapted to, manipulated, and altered the continent's diverse environments, and how choices shaped the kinds of societies in which they lived. By immersing ourselves in Africa's early history, we will also begin to understand and to critique how and why contemporary western media has come to portray Africans as "marginal" to global change. This course begins its study of global connections when the climatic changes that contributed to the rise of agriculture (after 20000 BCE), and it concludes in the late-eighteenth century, following the period of Africa's most intensive exports of slaves.

HIST 3461 Introduction to East Asia I: The Imperial Age

3-4 credit(s), max credits 4, 1 completion allowed; Credit will not be granted if credit has been received for: EAS 3461; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspective Theme;

Instructor: Wang, Liping

Description: This is a comprehensive introduction to East Asia (China, Japan, Korea, and Vietnam) from prehistoric times to the sixteenth century. It traces the evolution of major political and economic institutions as ways to understand basic structures of political authority and systems of resource distribution in these societies. It outlines major schools of East Asian philosophy and religions, such as Confucianism, Daoism, and Buddhism, and discusses their development and influence in each of the four countries. It analyzes some of the most important features of East Asian society, i.e., family structure and gender relationships in ideology as well as in practice. As part of the overview of East Asian society and culture, the course also introduces main modes of artistic expression through various kinds of visual materials as well as visit to museum. The course stresses the inter-connections within East Asia while highlighting the distinctive paths of historical changes in each of the four countries.

Style: 80% Lecture, 20% Discussion.

HIST 3468 Social Change in Modern China

3 credit(s); Credit will not be granted if credit has been received for: HIST 5468; Meets CLE req of Historical Perspective Core;

Instructor: Wang, Liping

Description: This course explores major issues in modern Chinese society. It begins with the Opium War in 1840 and traces the relationship between anti-drug effort and state building to the 1990s. It examines the New Culture Movement in the 1920s and links it to the emergence of cosmopolitan culture, new women, and popular nationalism. It retells the story of the Great Leap Forward in the 1950s and uses it to analyze the increasing urban/rural gaps under the PRC. It also devotes considerable time to the importance of gender and ethnicity since the early 20th century. Students will achieve a good understanding of modern China through reading and discussing up-to-date scholarship on these above themes and issues. This course is

for undergraduate students, both majors and non-majors.

Style: 60% Lecture, 40% Discussion.

Grading: 80% reports/papers, 20% class participation.

HIST 3471 Modern Japan, Meiji to the Present (1868-2000)

3 credit(s); Credit will not be granted if credit has been received for: EAS 3471; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme;

Instructor: Tucker,David Vance

Description: Student may contact the instructor or department for information.

HIST 3503 Ancient Iran

3 credit(s); Credit will not be granted if credit has been received for: CAS 3511;

Instructor: Bashiri,Iraj

Description: Ancient Persia played a vital role in the development of the cultures of the eastern Mediterranean Sea. In the north, while fighting the Greeks, Persia contributed to the rise of a number of intellectuals in the region of present-day southwestern Turkey. In the south, for two hundred and ten years Persia expanded Egyptian trade as far as India. In the center, Persia empowered the Phoenicians to control the Mediterranean Sea routes all the way to Gibraltar. The course studies these developments in the context of the growth of the empires of the Achaemenians and the Sassanians. The objectives of the course are: - Acquaint students with the culture of ancient Iran, especially the relation of that culture to other major ancient cultures - Equip students with the means for a better understanding and interpretation of the dynamics of ancient events - Teach students to distinguish different trends and accept them for what they are? - Discuss the roots of ancient conflicts and show that, like people, cultures keep events in memory and act upon them - Examine aspects of ancient Egyptian, Greek, and Iranian cultures and their contribution to the formation of an ancient world civilization.

Style: 60% Lecture, 10% Film/Video, 10% Discussion, 20% Student Presentation.

Grading: 61% reports/papers, 36% quizzes, 3% attendance. There are 3 tests (quizzes).

Exam Format: Essay

HIST 3504 The Cultures of the Silk Road

3 credit(s);

Instructor: Bashiri,Iraj

Description: The cultures of the Silk Road flourished in present-day Central Asia, Afghanistan, and Iran after the invasion of Alexander the Great. In time, the Road became the hub of activity, especially under the Sassanids and, later, under the Mongols. Even after the discovery of the sea routes made the movement of goods by caravans less profitable, Sufis and merchants continued to enhance the religious, social, political, and literary aspects of the region. Since the fall of the Soviet Union, there has been an attempt at reviving the Silk Road by creating an international network of scholarship about the Silk Road supported by the region's centers of learning and prominent international banks. The potential for the exchange of ideas across cultures for creating a better world is as promising a notion today as it was real in medieval times. The course is devised to acquaint students with the dynamics of the Silk Road, both in medieval and contemporary times. It equips them with the necessary information to understand, interpret, and accept ideas and actions that, on the surface, might appear alien and often unacceptable. The course emphasizes the contributions of the cultures of Central Asia, Afghanistan, and Iran to world civilization.

Style: 60% Lecture, 10% Film/Video, 10% Discussion, 20% Student Presentation.

Grading: 51% reports/papers, 36% quizzes, 3% attendance, 10% in-class presentation.

Exam Format: essay

HIST 3505 Survey of the Modern Middle East

3 credit(s); Credit will not be granted if credit has been received for: ARAB 3505; Meets CLE req of International

Perspect Theme;

Instructor: Hakim,Carol

Description: The course examines the history of the modern Middle East. It reviews the main political events in the region during the 19th and 20th centuries, as well as the underlying social, economic, and intellectual issues that have shaped the history of the Middle East in the modern era. Topics to be covered include the decline of the Ottoman Empire, imperialism and colonialism, nationalism and the rise of the modern states, Political Islam, and the evolution of post-independence states and societies up until the present.

HIST 3511 Muslims and Jews: Conflict and Co-existence in the Middle East and North Africa since 1700

3 credit(s);

Instructor: Schroeter,Daniel J

Description: Jews and Muslim have coexisted and influenced each other over many centuries, especially in the Middle East and North Africa. While Muslim-Jewish relations in the 20th century have often been characterized exclusively by bitter enmity, in earlier centuries the interactions of Muslims and Jews have been characterized as a symbiotic relationship by some and a state of perpetual tension and conflict by others. This course will examine the diversity of social and cultural interactions between Muslims and Jews and between Islam and Judaism since 1700. It seeks to answer the question: what enabled the two religious communities to peacefully coexist and what were the causes of conflict? Why is the history of Muslim-Jewish relations such a contested issue today?

HIST 3547 Ottoman Empire

3 credit(s); Credit will not be granted if credit has been received for: ARAB 3547; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme;

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). For history majors, course will fulfill the pre-1750 requirement.

HIST 3613 History of the Crusades

3 credit(s); Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme;

Instructor: Lower,Michael T

Description: Taken as a whole, the Crusades make up one of the most fascinating episodes in the history of the Middle Ages. Our primary aim in this class will be to study the crusading phenomenon in its medieval context by engaging with the original documentary remains of the period. What motivated medieval European men and women to set out on the conquest of a land thousands of miles away, about which they knew very little? How did the papacy, as head of the Catholic Church, come to promote violence against the Muslim residents of that land as not merely justifiable, but as positively meritorious, as deserving of a great spiritual reward? How did the Muslim and also Jewish communities who were the primary targets of this violence respond to it, and how did the contact among Christians, Muslims, and Jews which the Crusades made possible transform relations among these groups, the three major monotheistic religions of the West? While focusing on the Crusades as an aspect of medieval history, we will also consider some of the larger questions raised by the history of these expeditions. What is the relationship between violence and religion? Does it differ in the Christian, Muslim, and Jewish traditions? What is the legacy of the crusades? Did they pave the way for the subsequent Western colonial ventures that eventually led to Western domination of much of the non-Western world? Did they set the stage for modern conflicts in the Middle East?

Style: 50% Lecture, 50% Discussion.

Grading: 20% final exam, 40% reports/papers, 40% other evaluation. Informal writing assignments and class participation

Exam Format: Essay

HIST 3618 The Dark Ages Illumined: Medieval Europe to 1050
3 credit(s);

Instructor: Phillips Jr, William D

Description: This is a course in the development of western Europe and its neighbors in the early Middle Ages. Coverage will include the fall of Rome and the persistence of the Byzantine Empire, the expansion of the Islamic world, and Germanic kingdoms in western Europe. Attention to social and economic developments and the cultural heritage of the early Middle Ages.

Style: 60% Lecture, 40% Discussion.

Grading: 30% mid exam, 40% final exam, 20% reports/papers, 10% class participation.

Exam Format: Essay and identification

HIST 3637 Modern Russia: From Peter the Great to the Present
3 credit(s);

Instructor: Stavrou, Theofanis G

Description: Student may contact the instructor or department for information.

HIST 3681 Irish History

3 credit(s);

Instructor: Donahue, Kelly L

Description: This course covers the history of Ireland from ancient times to the present. Due to the availability of source material among other factors, the course will be heavily weighted in favor of early modern and modern Ireland, roughly 1500 to the present. Important topics that will be covered include the following: the Celtic invasions and influence on the isle of Eire, the Viking and Norman invasions of Ireland, the plantations of the Tudor-Stuart period that create the Anglo-Irish and Scotch-Irish communities, The Union with Great Britain, The Great Famine, the Anglo-Irish War and the Irish Civil War, among others. The course is structured around pivotal political moments in Irish history but every effort will be made to include social history looking at the daily lives of the rich, the poor, the Catholic Irishman, the Anglo-Irishman, the Scotch-Irishman, and the women of these various groups. Students should expect around 100 pages of reading per week, a mid-term exam, a final exam, and two papers roughly 5-7 pages in length.

Style: 50% Lecture, 50% Discussion.

Grading: 25% mid exam, 25% final exam, 25% reports/papers, 5% quizzes, 20% class participation.

Exam Format: essay, short answer identification

HIST 3704W Daily Life in Europe: 1300-1800

3 credit(s); Meets CLE req of Historical Perspective Core; meets CLE req of International Perspective Theme; meets CLE req of Writing Intensive;

Instructor: Phillips, Carla Rahn

Description: Under the broad heading of "Daily Life in Europe," we will examine various key issues in the lives of men and women in Europe between the Black Death and the Industrial Revolution. Some of the historical questions we will ask are: What were the rates of birth, marriage, and death in various European countries? What effect did epidemics and wars have on population size and the quality of life? How did men and women find marriage partners? What experiences did they have in their marriages and family lives? How did people at various levels of society make a living? How and why did some of them travel far from where they were born? Did their standards of living change over time? Who held the reins of power? How was society structured and how did social classes relate to one another? How and why did ordinary people rebel against governments and the privileged classes? What results did these rebellions have? What role did formal religion and other beliefs play in people's lives? Was witchcraft a major force in society? These and other questions will shape the lectures, readings, and discussions in the course. Whether the readings deal with family and sexual behavior, farming, manufacturing, buying and selling goods, seafaring, religion, culture, or other topics, all of the authors discuss how interpretations have changed over time and offer their own revised interpretations of daily life in the past, based on an expanding body of documentary evidence. The

class therefore introduces students, not only to the history of daily life in the early modern period, but also to the ways that historians interpret it, and the ways that they, as critical thinkers, can assess the interpretations of those historians.

Style: 80% Lecture, 20% Small Group Activities.

Grading: 20% mid exam, 40% final exam, 30% reports/papers, 10% class participation. Class participation includes attendance, discussion groups, and informal presentations. Students must complete all of the graded assignments in order to receive a grade for the course. Unexcused late work is penalized.

Exam Format: Essays, both short and long, plus a map on the mid-term. Students will know the questions for the final examination in advance.

HIST 3719 The Making of Contemporary Europe

A-F only, 3 credit(s);

Instructor: Wolfe, Thomas C

Description: History 3719 is an introduction to European history in the 20th century. It will be useful for first and second year students in all fields who are thinking of concentrating in European affairs, as well as for students thinking of studying abroad in Europe in their junior or senior years. It is also geared to the general student who simply wishes to better understand the dramatic events that unfolded on the European continent during the past 100 years. Its goal is to provide a basic vocabulary of events, persons, and processes that shaped this tumultuous era. After all, this century saw two catastrophic world wars, political revolutions, depressions, a four decade long ?Cold War.? as well as dramatic revolutions that brought the Cold War to an end. We will examine in particular the evolution of the virulent nationalisms that propelled these wars, and that brought European statesmen in the late 1940s to create supranational institutions to make future European wars impossible, institutions that in 1992 became the European Union. It will provide students with a valuable foundation for further study of contemporary European history, politics, culture and society.

Style: 50% Discussion.

Grading: 20% mid exam, 25% final exam, 40% reports/papers, 15% class participation.

Exam Format: essay

HIST 3721 Studies in 20th-Century Europe From the Turn of the Century to the End of World War II: 1900-45

3 credit(s); Credit will not be granted if credit has been received for: HIST 5721; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspective Theme;

Instructor: Trutor, Jonathan William

Description: Student may contact the instructor or department for information.

HIST 3727W History of the Holocaust

3 credit(s); Credit will not be granted if credit has been received for: RELS 3521W; Meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive;

Instructor: Snyder, Edward N

Description: Student may contact the instructor or department for information.

HIST 3802 "Sinners, Saints, and Savages": Religion in Early America

3 credit(s); prereq Non-fr or instr consent ;

Instructor: Fischer, Kirsten

Description: The United States is home to an astonishing array of religious beliefs and institutions. While mutual toleration is a widely-held ideal, it hasn't always been this way. This course investigates the religious pluralism of early America and explores how people of differing faiths perceived, reacted to, and changed each other before 1800. We will investigate Native American, Euro-American, and African American cosmologies; culturally divergent ideas about moral conduct; the religious motivations and justifications behind efforts to reform (or transform) society; the relationship between religious worldviews and ideas about racial difference, gender relations, class structures, and relations of authority. We will also examine how religious faiths and institutions could serve as vehicles of oppression or as means of

liberation in the contexts of colonization, enslavement, and revolution. In addition to offering a comparative and multi-cultural analysis of religion in early America, the course also investigates religious disagreements among Anglo-Americans, whose diverse views about religious authority and the place of religion in American politics were by no means resolved after the American Revolution. Distinct ideas about the character and demands of the Supreme Being and the nature and responsibilities of human beings resulted in disagreements over the proper relations between women and men, whites and blacks, ordained ministers and inspired laypersons, and the church and the state. By the end of the course, students will understand religion as one of the important factors that shaped society and social conflicts in early America. Students will find that the religious diversity of modern-day America had antecedents in the colonial and revolutionary periods, while freedom of conscience evolved only slowly. By learning how the intense, often coercive, and sometimes brutal conflicts over religion resulted in an eventual truce of pluralism, students will understand how freedom of conscience in this country has been hard-won rather than simply assumed or easily assured.

Style: 15% Lecture, 5% Film/Video, 60% Discussion, 20% Small Group Activities.

Grading: 70% reports/papers, 10% 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 Perspective Core;

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.

HIST 3821 United States in the 20th Century to 1945

3 credit(s); Meets CLE req of Historical Perspective Core;

Instructor: Wise, Michael D

Description: This course covers the social, cultural, and political emergence of modern America from the beginning of the 1900s to the end of World War II. During these four-and-a-half decades, Americans struggled over domestic reforms, fought two world wars, and survived an economic depression. As they worked to change the nature of their social and physical environments, they remade themselves and their institutions in unexpected ways. Over the semester, we will study these diverse transformations, investigating the expansion of U.S. imperialism, the rise of mass consumption, environmental changes, popular culture and sexuality, the civil rights campaigns of women and minorities, immigration reform, urbanization, labor upheaval, the growth of the federal government, and other significant aspects of early-twentieth-century American history. We will pay about equal attention to primary and secondary sources.

HIST 3841 American Business History

3 credit(s);

Instructor: Green, George David

Description: The course discusses the place of business in the American economy, society, culture and political system, as well as the history of internal business development from the small family firm toward the large multi-divisional and multi-national firm so prominent today. We look closely at early merchant capitalism, development of transportation systems (especially railroads), industrialization and the rise of big business in the late 19th century, increasing government regulation of business and the politics behind it, and the emergence and influence of the modern corporation. Included will be nine half-hour TV programs created by the instructor, featuring such leading figures as Samuel Slater (early textile industry), James J. Hill, Andrew Carnegie, John D. Rockefeller, J.P. Morgan, Henry Ford and Alfred Sloan (of General Motors). Students have the choice of writing four short papers on assigned readings (and no final exam), or two of those papers plus an essay final exam.

Style: 70% Lecture, 20% Discussion.

Grading: 40% final exam, 60% reports/papers.

Exam Format: essays, from set of questions given out a week beforehand

HIST 3863 The Black Diaspora in Historical Perspective

3 credit(s);

Instructor: Mathieu, Saje M

Description: This seminar explores the experiences of African Americans overseas and examines how they led transnational lifestyles be it through their work, leisure, and/or as political exiles from Reconstruction to the Reagan era. We will investigate how African Americans established lives that defied borders and transformed national and local politics in the Americas, Europe, and Asia. For example, how did the discourse of race affect post-Revolutionary Cuba at the end of the nineteenth century? How did African American soldiers and intellectuals in Paris shape the post-World War One Negritude movement? What role did the conception of blackness and 'negrophobia' play in Nazi Germany and Hitler's party in particular? How did W.E.B. Du Bois forge a partnership between African Americans and Japan during the Great Depression? This seminar analyzes how African Americans, who were highly mobile and internationally savvy, shaped political mobilization abroad and how their migrant communities challenged or adapted institutions to fit their needs both as immigrants and as people of color. Thus, one of the important themes of this seminar will be how race and blackness emerged and functioned within a global context after 1860. The course is also very interested in how African Americans utilized their experiences overseas to then change the course of social and political movements back in the United States since Emancipation. In other words, we will analyze how African Americans ? and intellectuals in particular ? capitalized on important geopolitical moments, such as the Cold War, to make the strongest case for civil rights advancements in the United States.

Style: 30% Lecture, 40% Discussion, 30% Small Group Activities.

Grading: 80% reports/papers, 20% class participation. Students will write 2 five page reading responses. The final writing assignment of 5 pages will include a critical analysis of a primary source document.

HIST 3864 African American History, 1619-1865

A-F only, 4 credit(s); Credit will not be granted if credit has been received for: AFRO 3864; Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core;

Instructor: Mayes, Keith A

Description: Student may contact the instructor or department for information.

HIST 3872 American Indian History: 1830 to the Present

3 credit(s); Credit will not be granted if credit has been received for: AMIN 3872; Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core;

Instructor: O'Brien-Kehoe, Jean Maria

Description: Student may contact the instructor or department for information.

HIST 3878 American West

3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core;

Instructor: Stone,Paul Clois

Description: History 3878, "The North American West Since 1845" combines cultural and social approaches to the study of the Trans-Mississippi West since the American annexation of the Republic of Texas. The course explores concepts of Western regionalism and identity in their relationships to nationality, nationalism and statehood. A major theme of the course is an examination of the processes by which western lands, including Alaska and Hawaii, which were once part of large international empires, became states in the American republic. Reading is relatively heavy but the course also relies on guest lectures, films and field trips and students have a wide degree of flexibility in choosing areas of particular interest in which they wish to work.

Style: 60% Lecture, 20% Discussion. field trips, films, music
Grading: 20% mid exam, 30% final exam, 30% reports/papers, 20% class participation.

Exam Format: maps, objectives, multiple choice, essays

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 4072 History of Rome: 78 B.C. to A.D. 117

3 credit(s); prereq An appropriate introductory course is recommended;

Instructor: Evans,John Karl

Description: Student may contact the instructor or department for information.

HIST 4961V Honors: Major Paper

A-F only, 4 credit(s); prereq dept consent , instr consent ; sign up in Undergraduate Studies Office two sem in advance; Meets CLE req of Writing Intensive;

Instructor: May,Lary L

Description: Student may contact the instructor or department for information.

HIST 4961V Honors: Major Paper

A-F only, 4 credit(s); prereq dept consent , instr consent ; sign up in Undergraduate Studies Office two sem in advance; Meets CLE req of Writing Intensive;

Instructor: Bachrach,Bernard S

Description: Student may contact the instructor or department for information.

HIST 4961V Honors: Major Paper

A-F only, 4 credit(s); prereq dept consent , instr consent ; sign up in Undergraduate Studies Office two sem in advance; Meets CLE req of Writing Intensive;

Instructor: McNamara,Patrick J

Description: Student may contact the instructor or department for information.

HIST 3900 Topics in Medieval and Modern European History: Muslims/Jews in Early Modern English Literature

3 credit(s), max credits 16, 5 completions allowed; prereq Jr or sr or instr consent ;

Instructor: Matar,Nabil I

Description: Student may contact the instructor or department for information.

HIST 3930 Topics in Ancient History: Egypt of the Pharaohs

3 credit(s), max credits 15, 5 completions allowed;

Instructor: Evans,John Karl

Description: Student may contact the instructor or department for information.

HIST 3959 How to Do History

A-F only, 3 credit(s);

Instructor: Phillips,Carla Rahn

Description: Everything that happened in the past led to where we are today, but how do we go about understanding that past human experience? This course aims to prepare you to be a good consumer and producer of history, whether you are writing a senior paper in the History Department or simply learning what history is about, so you can better understand the complex world we live in. You will be introduced to the ways that historians investigate, interpret, and write about the past, as well as learning how to think critically about sources of historical information. You will read, discuss, and write about various historical sources and learn how to evaluate them. You will also be introduced to the rich collections of historical sources at the University of Minnesota and in the Twin Cities.

HIST 4961W Major Paper

A-F only, 4 credit(s); prereq dept consent, instr consent; sign up in Undergraduate Studies Office two sem in advance; Meets CLE req of Writing Intensive;

Instructor: May,Lary L

Description: This course explores the relationship between American popular art and public life with an emphasis on the period since World War II. Unlike most explorations of the popular arts, we will examine through common readings and individual research projects how the popular arts engage creating national identity, who is included and excluded, what are the obligations of the citizen. We will examine these issues in the context of the rise of the United States to a world power, globalization, World War II, anti communism, civil rights, the Vietnam war, the counter culture and conservative resurgence since the 1970's. Topics of exploration will be race relations, the rise of film noir, the suburban domestic ideal, television, rock and roll and contemporary youth cultures. The format is designed within a seminar-discussion format with common readings and exercises designed to create a well crafted research project. Students may write their papers on this theme in a country other than the U.S., but should consult with Professor May in advance. Common readings will be books such as Godfrey Hodgson, AMERICAN IN OUR TIME, George Lipsitz TIME PASSAGES, and Elaine May, HOMEWARD BOUND and Salman Rushdie, THE GROUND BENEATH HER FEET.

HIST 3959H Honors: How to Do History

A-F only, 3 credit(s);

Instructor: Phillips,Carla Rahn

Description: Everything that happened in the past led to where we are today, but how do we go about understanding that past human experience? This course aims to prepare you to be a good consumer and producer of history, whether you are writing a senior paper in the History Department or simply learning what history is about, so you can better understand the complex world we live in. You will be introduced to the ways that historians investigate, interpret, and write about the past, as well as learning how to think critically about sources of historical information. You will read, discuss, and write about various historical sources and learn how to evaluate them. You will also be introduced to the rich collections of historical sources at the University of Minnesota and in the Twin Cities.

HIST 4961W Major Paper

A-F only, 4 credit(s); prereq dept consent, instr consent; sign up in Undergraduate Studies Office two sem in advance; Meets CLE req of Writing Intensive;

Instructor: Bachrach,Bernard S

Description: Student may contact the instructor or department for information.

HIST 3980W Supplemental Writing in History

A-F only, 1 credit(s), max credits 4, 4 completions allowed; prereq instr consent; must take a 3-cr 3xxx or 5xxx course taken concurrently; Meets CLE req of Writing Intensive;

Instructor: STAFF

Description: With the permission of the instructor of a history course, a student may add this one-credit independent study in

HIST 4961W Major Paper

A-F only, 4 credit(s); prereq dept consent, instr consent; sign up in Undergraduate Studies Office two sem in advance; Meets CLE req of Writing Intensive;

Instructor: McNamara,Patrick J

Description: Student may contact the instructor or department

for information.

HIST 5501 Medieval Europe and the World

A-F only, 3 credit(s); prereq instr consent ;

Instructor: Phillips Jr,William D

Description: An examination of the place of medieval Europe in the world. The relations of Europe with Asia, Africa, and the Americas. European knowledge of the world's other great cultures. European travelers and explorers. Assessment of other cultures' knowledge of Europe in the period.

Style: 40% Lecture, 50% Discussion.

Grading: 30% mid exam, 40% final exam, 20% reports/papers, 10% class participation. graduate students will be assessed on different scale

Exam Format: essay and identification

HIST 5631 Proseminar: Comparative Early Modern History

A-F only, 3 credit(s); prereq Hist grad or instr consent ;

Instructor: Farmer,Edward L

Description: This pro-seminar will provide an overview of early modern history from the fourteenth through the eighteenth centuries. It is designed to help you become familiar with the field and, if appropriate, prepare for a general examination. We will read and discuss secondary literature in order to survey current trends and discourses. We will develop three kinds of perspective: spatial: how to think about areas and regions of the world; temporal: how to think about early modern time; and methodological: how to use interactive, comparative, and thematic strategies to do trans-local history. Participants will be expected to prepare brief reports, lead discussions, and write two papers. There will be no examinations. Some sessions of the class will meet in conjunction with Hist 5962 for introduction to sources in the Bell Library, visiting the Minneapolis Institute of Art, and visiting speakers.

Style: 15% Lecture, 50% Discussion, 15% Student Presentation, 10% Field Trips, 10% Guest Speakers.

Grading: 50% reports/papers, 25% in-class presentation, 25% class participation.

HIST 5649 Ideas in Context: Making Early Modern Knowledge, 1500-1800

A-F only, 3 credit(s); prereq Grad student or instr consent ;

Instructor: Shank,JB

Description: Student may contact the instructor or department for information.

HIST 5801 Seminar in Early American History

A-F only, 3 credit(s);

Instructor: O'Brien-Kehoe,Jean Maria

Description: Student may contact the instructor or department for information.

HIST 5900 Topics in European/Medieval History:

Politics/War/Econ in W. Eur - Late Rome to 12th C.

A-F only, 1-4 credit(s), max credits 16, 5 completions allowed; prereq Grad or [advanced undergrad with instr consent];

Instructor: Bachrach,Bernard S

Description: Student may contact the instructor or department for information.

HIST 5900 Topics in European/Medieval History: The Medieval Mediterranean World: Econ/Culture

A-F only, 3 credit(s), max credits 16, 5 completions allowed; prereq Grad or [advanced undergrad with instr consent];

Instructor: Reyerson,Kathryn L

Description: Student may contact the instructor or department for information.

HIST 5910 Topics in U.S. History: Readings in African American History

3 credit(s), max credits 16, 5 completions allowed; prereq Grad or advanced undergrad student with instr consent ;

Instructor: Lindquist,Malinda A

Description: Student may contact the instructor or department for information.

HIST 5932 African Historiography and the Production of Knowledge

A-F only, 3 credit(s); prereq Major in African history or [grad student, instr consent];

Instructor: Isaacman,Allen F

Description: This course is both an exercise in historiography and an exploration of the methodologies which scholars rely upon to tease out important dimensions of the African past. It focuses on recent analyses of several major themes in the social history of pre-colonial and colonial Africa. The seminar will pay particular attention to the recent scholarship on the daily lives of ordinary men and women in their households, communities and workplaces. Of particular interest is the way women and men, young and old, working, slaves and peasants coped with, and creatively adapted to, and at times, struggled against a system of oppression. The course also critically explores the type of sources which can be used to render audible the voices of people who have long been silenced. We will focus on oral traditions, life histories, archeological records and ways to read colonial texts. Each student will be required to write a short "think" paper as well as a fuller historiography or methodological essay. Among the texts we will read are Jean Allman and Victoria Tashjian, "I will not eat stone," Keletso Atkins, "The moon is dead. Give us our money," Susan Geiger, "Tanu women," Jonathon Glassman, "Feasts and Riots," Elias Mandala, "Work and control in a peasant economy," Steve Feierman, "Peasant Intellectuals," and Jan Vansina, "Oral traditions as history."

HIST 5960 Topics in History: Religion, Secularism, and Politics: Modern Debates

1-4 credit(s), max credits 16, 5 completions allowed; prereq Grad or [advanced undergrad with instr consent];

Instructor: Skaria,Ajay

Description: RELIGION, SECULARISM AND POLITICS: MODERN DEBATES The stakes of religion as a category are powerfully indicated by Derrida's remark that `it is always a response and responsibility that is prescribed, not chosen freely as an act of pure and abstractly autonomous will. There is no doubt that it implies freedom, will and autonomy, but let us try to think this: will and freedom without autonomy.? Because dominant secular visions of freedom are premised on the autonomous subject, they necessarily misunderstand this other way of thinking freedom, and presume that they move beyond it. This misunderstanding, while it states something correct, misses out on what makes religion such a compelling force in the world today in two ways that are quite opposed to each other?as the grounding of secular politics, and as the questioning of secular politics. The course explores how religion works on these two registers by attending, in a historical spirit, to the debates around religion that mark the global emergence of secularism as a category. The first half of the course will explore: the secular critique of religion, the secular remaking of religion as both a public and private practice, the theological affinities of secular politics. The second half of the course will turn to the questioning of secularism in the name of faith, if not religion.

HIST 5960 Topics in History: Western Imperialism

3 credit(s), max credits 16, 5 completions allowed; prereq Grad or [advanced undergrad with instr consent];

Instructor: Lorcin,Patricia M E

Description: This course is aimed at familiarizing students with Western theories of imperialism. Readings will range from theories developed in the late nineteenth century to those elaborated in the late twentieth and early twenty-first centuries. Students will be expected to read the weekly assignments, participate in weekly discussions, present one or two groups of weekly readings to the class, create a syllabus and write a research paper applying the theoretical knowledge they acquired during the course to a particular place and time.

HIST 5960 Topics in History: Food in History

3 credit(s), max credits 16, 5 completions allowed; prereq Grad or [advanced undergrad with instr consent];

Instructor: Pilcher,Jeffrey Michael

Description: Student may contact the instructor or department

for information.

HIST 5962 Expansion of Europe

A-F only, 3 credit(s); prereq Grad student, instr consent;

Instructor: Ragnow, Marguerite

Description: This course will use primary sources as an entree into the global interaction fostered by European expansion into the wider world ca. 1350-1790. Students will learn how to work with archival and rare materials in an in-class lab, and then will base their research papers on materials from the James Ford Bell Library (4th Floor Wilson Library), a world-renowned collection of books, maps, and manuscripts from this period. The art of the Dutch painter Vermeer and others, and material goods such as furniture and household objects also will be used as primary sources for understanding cultural interaction and the global impact--or lack of impact--of European expansion in various parts of the world. Field trips to the Minneapolis Institute of Arts are planned and collaboration with the Center for Early Modern History will bring in one or more guest speakers. Comparative projects will be encouraged. Dr. Marguerite Ragnow, Curator of the Bell Library, and Dr. Edward L. Farmer, Professor of History, will be the instructors for the course.

Style: 15% Lecture, 5% Film/Video, 35% Discussion, 5% Laboratory, 15% Small Group Activities, 15% Student Presentation, 5% Field Trips, 5% Guest Speakers. Some percentages may change based on availability of speakers, etc.

Grading: 55% reports/papers, 3% special projects, 15% reflection paper, 15% in-class presentation, 10% class participation, 2% laboratory evaluation. All work must be completed in order to receive a grade for the course.

HIST 8015 Scope and Methods of Historical Studies

A-F only, 3 credit(s); prereq instr consent;

Instructor: Bachrach, Bernard S

Description: Student may contact the instructor or department for information.

HIST 8025 Politics of Historical Memory

A-F only, 3 credit(s), max credits 6;

Instructor: McNamara, Patrick J

Description: Student may contact the instructor or department for information.

HIST 8644 Legal History Workshop

A-F only, 3 credit(s); prereq instr consent ;

Instructor: Welke, Barbara Young

Description: Student may contact the instructor or department for information.

HIST 8900 Topics in European/Medieval History:

Politics/War/Econ in W. Eur - Late Rome to 12th C.

A-F only, 1-4 credit(s), max credits 16, 5 completions allowed;

Instructor: Bachrach, Bernard S

Description: Student may contact the instructor or department for information.

HIST 8900 Topics in European/Medieval History: The Medieval Mediterranean World: Econ/Culture

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 8910 Topics in U.S. History: Gender, Sexuality and Political Culture

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: Histories and Governmentalities

A-F only, 3 credit(s), max credits 16, 5 completions allowed;

Instructor: Wolfe, Thomas C

Description: History 8960 is a course for graduate students in the social sciences and humanities who are interested in the

perspective on modernity opened up by Michel Foucault's descriptions of what he termed governmentality. It is for students who are studying all parts of the world, and all historical eras. We will do two things in the course. First we will come to some idea of the concept's usefulness as a means to tell effective histories about the past. We will consider its initial place in the work of Foucault and his students, and then examine its subsequent appearance in the work of other social scientists. We will pursue the hunch that what has made the framework of governmentality so interesting to such diverse scholars is that it enables a perspective on human societies that takes reflexivity as a central and vital aspect of the creation of meaningful accounts of the world. The second part of the course seeks to turn this perspective outward into contemporary contexts of social inquiry. Students will select a small number of issues that confront the upper midwest, and then ask how the perspective of governmentality can be of use in defining, shaping, and perhaps intervening in new ways. Our aim will be to imagine different ways to engage in meaningful conversations with, for example, civic groups, local government agencies, and other institutions outside the academy who might be seeking to better understand their problems and contexts. Our goal, in other words, will be to think beyond strictly academic framings and ask how explorations of governing along these lines might enable different, more self-aware enactments of politics and policy.

History of Medicine

510 Diehl Hall (Box 506 Mayo)

HMED 3001V Health Care in History I

4 credit(s); prereq Honors; Credit will not be granted if credit has been received for: HMED 3001W; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme; meets CLE req of Writing Intensive;

Instructor: Shackelford, Jole Richard

Description: History of Medicine 3001V is a writing intensive survey of the history of Western biomedical ideas, research, and health care practices from the ancient Mediterranean and Middle Eastern foundations to the clinical movement of the early nineteenth century. These ideas and practices have left their marks on modern medicine and help explain the origins and appeal of today's alternative medicines as well. Many of our attitudes about the proper relationship between patient and practitioner, for example, are founded on the ideas set down by Hippocrates and Galen in ancient Greece and Rome. Today's herbal medicine is also in large measure shaped by the experiences and discoveries of early European and Middle Eastern healers. Similarly, one can find the origins of modern pseudo-scientific and quack medicines in early modern theories about how to regulate the kinds of and amounts of stimulation that people receive from their environments, which were believed to affect the healthy flow of fluids and spirits throughout the body.

Style: 75% Lecture, 25% Discussion.

Grading: 15% mid exam, 25% final exam, 45% reports/papers, 15% class participation. Three essays/papers are to be revised at least once each, as part of the writing intensive pedagogy.

Exam Format: In-class, prose (essay-style) examinations.

HMED 3001W Health Care in History I

4 credit(s); Credit will not be granted if credit has been received for: HMED 3001V; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme; meets CLE req of Writing Intensive;

Instructor: Shackelford, Jole Richard

Description: History of Medicine 3001W is a writing intensive survey of the history of Western biomedical ideas, research, and health care practices from the ancient Mediterranean and Middle Eastern foundations to the clinical movement of the early nineteenth century. These ideas and practices have left their marks on modern medicine and help explain the origins and appeal of today's alternative medicines as well. Many of our attitudes about the proper relationship between patient and practitioner, for example, are founded on the ideas set down by

Hippocrates and Galen in ancient Greece and Rome. Today's herbal medicine is also in large measure shaped by the experiences and discoveries of early European and Middle Eastern healers. Similarly, one can find the origins of modern pseudo-scientific and quack medicines in early modern theories about how to regulate the kinds of and amounts of stimulation that people receive from their environments, which were believed to affect the healthy flow of fluids and spirits throughout the body.

Style: 75% Lecture, 25% Discussion.

Grading: 15% mid exam, 25% final exam, 45% reports/papers, 15% class participation.

Exam Format: In-class, prose (essay-style) examinations.

HMED 3055 Women, Health, and History

3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core;

Instructor: Gunn, Jennifer

Description: This course combines a lecture and seminar format. It will investigate women's historical roles as healers, patients, and health activists as well as men's roles and the relationships between them, primarily in the United States since 1800. Students will focus on how gender has played a role in the professionalization of medicine and how ideas about gender have affected scientific research. The course will address the history of sex and gender as ideas; medical and public discussion of mental illness, body image, reproductive issues, and ageing; sexuality; and the relationships between traditional and professional healers. It will also focus on the relationships between gender, race, and class relative to diagnosis and access to health care and medical education, as well as gendered facets of government health policy. Using secondary literature, primary sources such as diaries, and film, students will complete writing assignments that provide opportunities to explore individual interests. This course is intended for mid- to upper-level undergraduates. It does not require previous work in history or history of medicine.

Style: 20% Lecture, 60% Discussion, 15% Small Group Activities, 5% Student Presentation.

Grading: 10% mid exam, 10% final exam, 60% reports/papers, 20% class participation.

Exam Format: essay, short answer

HMED 3075 Technology and Medicine in Modern America

3-5 credit(s), max credits 5, 1 completion allowed;

Instructor: Tobbell, Dominique Avril

Description: Medicine as it exists in contemporary America is profoundly technological; we regard it as perfectly normal to be examined with instruments, to expose our bodies to many different machines; and to have knowledge produced by those machines electronically processed, interpreted and stored. We are billed technologically, prompted to attend appointments technologically, and often buy technologies to protect, diagnose, or improve our health: consider, for example, bathroom scales; blood pressure cuffs; pregnancy testing kits; blood-sugar monitoring tests; and thermometers. Yet even at the beginning of the 20th century, medical technologies were scarce and infrequently used by physicians and medical consumers alike. Over the course of this semester, we will examine how technology came to medicine's center-stage, and what impact this change has had on medical practice, medical institutions, and medical consumers--on all of us!

HMED 3600 Directed Study

1-4 credit(s), max credits 12, 3 completions allowed; prereq instr consent ;

Instructor: Gunn, Jennifer

Description: Student may contact the instructor or department for information.

HMED 5940 Topics in the History of Medicine: Technology and Medicine in Modern America

3 credit(s), max credits 16, 5 completions allowed;

Instructor: Tobbell, Dominique Avril

Description: Medicine as it exists in contemporary America is profoundly technological; we regard it as perfectly normal to be examined with instruments, to expose our bodies to many

different machines; and to have knowledge produced by those machines electronically processed, interpreted and stored. We are billed technologically, prompted to attend appointments technologically, and often buy technologies to protect, diagnose, or improve our health: consider, for example, bathroom scales; blood pressure cuffs; pregnancy testing kits; blood-sugar monitoring tests; and thermometers. Yet even at the beginning of the 20th century, medical technologies were scarce and infrequently used by physicians and medical consumers alike.

Over the course of this semester, we will examine how technology came to medicine's center-stage, and what impact this change has had on medical practice, medical institutions, and medical consumers--on all of us!

HMED 8001 Foundations in the History of Early Medicine

A-F only, 3 credit(s);

Instructor: Shackelford, Jole Richard

Description: The key objective of this seminar is to provide graduate students from various backgrounds with an introduction to the early history of medicine in the Western tradition, from the earliest written records through the Enlightenment period in a format that permits in-depth reading and discussion of selected topics and opportunity for personal exploration of specific topics. It is designed to be a reading seminar that exposes students to selected primary sources by also a diversity of points of view on historical topics within the scope of early Western medicine. Knowledge of languages other than English is not required, but helpful for pursuing topics of individual interest. Students are expected to leave this seminar with an advanced introduction to the basic narrative themes, historiographical approaches, and research methods in the history of medicine.

Style: 5% Film/Video, 95% Discussion.

Grading: 40% reports/papers, 30% written homework, 30% class participation.

HMED 8112 Historiography of Science, Technology, and Medicine

A-F only, 3 credit(s); prereq instr consent ;

Instructor: Borrello, Mark E

Description: Student may contact the instructor or department for information.

HMED 8631 Directed Study

A-F only, 1-6 credit(s), max credits 12; prereq instr consent;

Instructor: Gunn, Jennifer

Description: Student may contact the instructor or department for information.

History of Science and Technology *381 Physics*

HSCI 1714 Technology and Civilization: Stone Tools to Steam Engines

4 credit(s); Credit will not be granted if credit has been

received for: HSCI 3714; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspective Theme;

Instructor: Alexander, Jennifer Karns

Description: Technology is an enormous force in our society, and this course asks how it became so important. We explore the historical background, development, and character of the most powerful technological systems the world has known, from pre-historic stone tool societies, through Egypt and the pyramids, ancient Greece and Rome, the explosion of Islam, and the dynamic and often violent technologies of medieval Europe. In this class, you will get to know your fellow students and find out what their interests are, and you will discuss historical problems with them in small groups and in discussion sections. You will listen to lectures and see films about particular technologies, and you will learn to ask key questions about each technology: who was involved? what were the circumstances? The course is designed for undergraduates from a variety of backgrounds, including engineering, literature, history, business, and the

sciences.

Style: 55% Lecture, 35% Discussion. film

Grading: 30% mid exam, 30% final exam, 15% reports/papers, 25% other evaluation. (15% Discussion Sections; 10% Small Groups;) N.B. 2 Midsemester Exams

Exam Format: Combination of short answer and essay.

HSCI 1715 Technology and Civilization: Waterwheels to the Web

4 credit(s); Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme;

Instructor: Thomas, Mary Margaret

Description: HSCI 1715 is designed for undergraduates interested in technology and history, and enrolls students with wide interests in the liberal arts, science, and engineering. There is no prerequisite. We explore the historical background and development of the most powerful technological system the world has ever known: Western Europe's. We cover relations between technology and culture since the Industrial Revolution, the diffusion of industrial technologies around the world and how various cultures adopted/adapted them, and technology's social impact, especially on Western society. We begin with case studies of 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: 60% Lecture, 20% Film/Video, 20% Discussion.

Grading: 20% mid exam, 20% final exam, 20% reports/papers, 20% additional semester exams, 20% class participation.

HSCI 1815 Revolutions in Science: Lavoisier, Darwin, and Einstein

4 credit(s); Credit will not be granted if credit has been received for: HSCI 3815; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme;

Instructor: Janssen, Michel

Description: This class is the second part of a two-semester introductory survey of the history of science. The two parts can be taken independently of one another. This class covers a selection of developments in physics, chemistry, biology, and geology from the 18th-20th C. We examine the reasoning of some of the leading scientists involved, while being sensitive to the broader social and cultural contexts in which they worked. We also pay attention to the ways in which we obtain knowledge in the history of science. To allow for meaningful analysis of the material, the course is clustered around a few pivotal episodes: the chemical revolution of the late-18th C., the Darwinian revolution of the 19th C and the relativity and quantum revolutions of the early-20th C. We also study the impact of these scientific developments on society. In particular, we look at the reaction of various religious groups to Darwins 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: 15% mid exam, 25% final exam, 45% reports/papers, 5% class participation, 10% other evaluation. attendance

Exam Format: combination of short essay questions and multiple choice (old exams will be made available)

HSCI 3211 Biology and Culture in the 19th and 20th Centuries

3 credit(s); Credit will not be granted if credit has been received for: HSCI 5211; Meets CLE req of Historical Perspective Core;

Instructor: Borrello, Mark E

Description: The purpose of this course is to explore the development of the biological sciences from the 19th century naturalist tradition to the experimental, quantitative science of the 20th century. The course will focus on the areas of evolutionary biology, genetics, molecular biology and behavioral biology among others. From the outset, all of the varied branches of biology interacted in complex ways, yet each pursued its own set of questions and developed unique methods to investigate them. Through the examination of some of the key figures and advancements in biology we will develop a clearer understanding of the process of science. We will also pay close attention to the dynamic relationship between the science and the historical and cultural context within which they developed. The course will be divided into three sections. In the first section we will look at the naturalist tradition as represented in the work of Charles Darwin and A.R. Wallace and the early work in embryology and developmental biology. In the second section we'll look at the development of genetics and its relation to evolutionary theory; and attempt to understand the complicated relationship between genetics and eugenics. Finally, we'll examine the recent history of molecular biology and the attempts to reconnect the study of genetics, development and evolution. This course provides an opportunity for the investigation of into the connections between biology and the broader cultural, economic and political contexts.

Style: 50% Lecture, 50% Discussion.

HSCI 3244 History of Ecology and Environmentalism

3 credit(s); Credit will not be granted if credit has been received for: HSCI 5244;

Instructor: Jones, Susan D.

Description: History of ecology as a scientific discipline, historical applications of ecology, and history of environmental ideas and movements that have called themselves "ecological" in the modern western world. Topics include the ecology of disease, colonial expansion and ecology, ecology and evolutionary theory, conservation versus environmentalism, urban ecology, ecology and politics, and aspects of the late-twentieth century environmental movement.

Style: 50% Lecture, 50% Discussion.

Grading: 30% mid exam, 30% final exam, 40% class participation.

Exam Format: short answer, identifications

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 Perspective Core;

Instructor: Seidel, Robert W

Description: Technology plays a central role in American culture, from 18th century automated flour mills to the X-files. We'll explore the inventions that have shaped American history as well as the history that shaped the gadgets in lectures, discussions, videos and on the world-wide web and analyze the consequences in contemporary life. While no technical expertise is required to complete the course, you'll learn enough to make you capable of dealing with technological issues as a citizen, scholar, and consumer. Topics will include Native American technologies, Benjamin Franklin's inventions, labor-saving devices, military technology and the development of the American System of Manufactures, agriculture, mechanization of farming and of the home, and many other subjects from automobiles, automation, and artificial intelligence, to xerography, Y-technology, and zygote techniques for cloning.

Style: 33% Lecture, 20% Film/Video, 30% Small Group Activities, 5% Student Presentation, 12% Web Based. Students are permanently assigned to small groups for weekly discussions and presentations

Grading: 25% mid exam, 25% final exam, 15% quizzes, 10% attendance, 25% class participation. Class participation grades are based on small group discussions, attendance (required)

Exam Format: Short essay identification

HSCI 3333V Honors Course: Issues in Twentieth Century**American Science and Technology**

3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive;

Instructor: Kohlstedt, Sally Gregory

Description: Science and technology were defining elements in twentieth-century American life in the United States and indeed in much of the world. Using case studies involving such topics as eugenics as well as comparative studies of technology in the Soviet Union and the United States in the 1930s, and an analysis of post-war attitudes toward atomic and other sciences, we will explore some of the ways in which science has influenced American culture and the reciprocal kinds of expectations that have pushed forward and also reacted against some aspects of science and technology. Most units of the course will have on-line assignments, short readings, film and slide presentations and one-page response papers. These will be a mid-term and final examination. The class members will meet together for lectures, films, and similar activities, with one smaller discussion group meeting at the end of each week. Evaluation will take into consideration class and group participation, written assignments, and the examinations.

Style: 57% Lecture, 33% Discussion. small group discussions

Exam Format: essay and short answer

HSCI 3714 Technology and Civilization: Stone Tools to Steam Engines

4 credit(s); Credit will not be granted if credit has been received for: HSCI 1714; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspective Theme;

Instructor: Alexander, Jennifer Karns

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, concluding with the birth of the steam engine. In this class, you will get to know your fellow students and find out what their interests are, and you will discuss historical problems with them in small groups and in discussion sections. You will listen to lectures and see films about particular technologies, and you will learn to ask key questions about each technology: who was involved? what were the circumstances of its development and use? The course is designed for undergraduates from a variety of backgrounds, including engineering, literature, history, business, and the sciences. Those enrolled in HSci 3714 will also write a research paper on the history of a technology of their choice.

Style: 55% Lecture, 35% Discussion.

Grading: 25% mid exam, 20% final exam, 30% reports/papers, 25% class participation. note: two midsemester exams

Exam Format: short answer and short essay

HSCI 3715 Technology and Civilization: Waterwheels to the Web

4 credit(s); Meets CLE req of Historical Perspective Core; meets CLE req of International Perspective Theme;

Instructor: Thomas, Mary Margaret

Description: HSCI 3715 is designed for undergraduates interested in technology and history, and enrolls students with wide interests in the liberal arts, science, and engineering. There is no prerequisite. We explore the historical background and development of the most powerful technological system the world has ever known: Western Europe's. We cover relations between technology and culture since the Industrial Revolution, the diffusion of industrial technologies around the world and how various cultures adopted/adapted them, and technology's social impact, especially on Western society. We begin with case studies of industrialization in Britain, Germany, and the United States, and the connection between industrialization and exploration and discovery. We next focus on how different societies created/reacted to technologies such as the steam

engine and electricity, and how the small technologies of daily life contributed to the growth of a society increasingly dependent on technology. Finally, we look at the increasingly complex technological system that nations and corporations developed to manage people and machines, and how these technologies related to social, cultural, and scientific attitudes. We end by considering the technologies of violence and hope that have dominated much of the twentieth-century.

Style: 60% Lecture, 20% Film/Video, 20% Discussion.

Grading: 20% mid exam, 20% final exam, 20% reports/papers, 20% additional semester exams, 20% class participation.

HSCI 3815 Revolutions in Science: Lavoisier, Darwin, and Einstein

4 credit(s); Credit will not be granted if credit has been received for: HSCI 1815; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspective Theme;

Instructor: Janssen, Michel

Description: This class is the second part of a two-semester introductory survey of the history of science. The two parts can be taken independently of one another. This class covers a selection of developments in physics, chemistry, biology, and geology from the 18th-20th C. We examine the reasoning of some of the leading scientists involved, while being sensitive to the broader social and cultural contexts in which they worked. We also pay attention to the ways in which we obtain knowledge in the history of science. To allow for meaningful analysis of the material, the course is clustered around a few pivotal episodes: the chemical revolution of the late-18th C., the Darwinian revolution of the 19th C and the relativity and quantum revolutions of the early-20th C. We also study the impact of these scientific developments on society. In particular, we look at the reaction of various religious groups to Darwins theory and at the development of nuclear weapons made possible by the development of modern physics. We pay special attention to the increasingly international character of science during the period covered in this class, while emphasizing differences between the developments in various countries (notably Britain, Germany, France, and the United States). The objective of the course is to give you a better understanding not just of the historical development of scientific ideas but also of the role science plays in modern societies by tracing how it came to play that role.

Style: 75% Lecture, 25% Discussion.

Grading: 10% mid exam, 10% final exam, 65% reports/papers, 5% class participation, 10% other evaluation. attendance

Exam Format: a combination of short essay questions and multiple choice (old exams will be made available)

HSCI 4455 Women, Gender, and Science

3 credit(s); Meets CLE req of Cultural Diversity Theme;

Instructor: Kohlstedt, Sally Gregory

Description: Women, gender, and science are intersecting themes. This history class will be consider historical patterns from the seventeenth century to the present: the goals and incentives of women in science, the patterns of their participation, and the gendered configurations that influence the practice and substance of science. The participation of women in science will be addressed through biographies of some well-known women scientists; accounts of the many women writers, illustrators, and teachers fundamental in the development of modern science; and discussions about women in scientific and medical literature. The institutional organizations and patterns of participation that influenced women's lives vary considerably by time and place, making historical outlook critical. Increasingly scholars have been investigating the ways in which women's participation intersects with the gendered practices of science. Gender constructions external to and within science frame issues in science as well as medicine and technology. We will meet weekly for discussion and presentations based on readings and other class preparation. Sources continue to multiply on this topic as professional scientific associations create web sites about women in specific disciplines, as film makers place women in scientific and medical situations, and as scholars investigate women's lives through archival records.

Style: The class will use a variety of resources to participate in

class activities - panel discussions, debates, and even impersonations if there are students with a theatrical bent. We will use of an internet resources on women scientific travelers.

HSCI 5211 Biology and Culture in the 19th and 20th Centuries
3 credit(s); Credit will not be granted if credit has been received for: HSCI 3211;

Instructor: Borrello, Mark E

Description: The purpose of this course is to explore the development of the biological sciences from the 19th century naturalist tradition to the experimental, quantitative science of the 20th century. The course will focus on the areas of evolutionary biology, genetics, molecular biology and behavioral biology among others. From the outset, all of the varied branches of biology interacted in complex ways, yet each pursued its own set of questions and developed unique methods to investigate them. Through the examination of some of the key figures and advancements in biology we will develop a clearer understanding of the process of science. We will also pay close attention to the dynamic relationship between the science and the historical and cultural context within which they developed. The course will be divided into three sections. In the first section we will look at the naturalist tradition as represented in the work of Charles Darwin and A.R. Wallace and the early work in embryology and developmental biology. In the second section we'll look at the development of genetics and its relation to evolutionary theory; and attempt to understand the complicated relationship between genetics and eugenics. Finally, we'll examine the recent history of molecular biology and the attempts to reconnect the study of genetics, development and evolution. This course provides an opportunity for the investigation of into the connections between biology and the broader cultural, economic and political contexts.

Style: 50% Lecture, 50% Discussion.

HSCI 5244 History of Ecology and Environmentalism
3 credit(s); Credit will not be granted if credit has been received for: HSCI 3244;

Instructor: Jones, Susan D.

Description: History of ecology as a scientific discipline, historical applications of ecology, and history of environmental ideas and movements that have called themselves "ecological" in the modern western world. Topics include the ecology of disease, colonial expansion and ecology, ecology and evolutionary theory, conservation versus environmentalism, urban ecology, ecology and politics, and aspects of the late-twentieth century environmental movement.

Style: 50% Lecture, 50% Discussion.

Grading: 30% mid exam, 30% final exam, 40% class participation.

Exam Format: short answer, identifications

HSCI 5331 Technology and American Culture
3 credit(s); Credit will not be granted if credit has been received for: HSCI 3331;

Instructor: Seidel, Robert W

Description: Technology plays a central role in American culture, from 18th century automated flour mills to the X-files. We'll explore the inventions that have shaped American history as well as the history that shaped the gadgets in lectures, discussions, videos and on the world-wide web and analyze the consequences in contemporary life. While no technical expertise is required to complete the course, you'll learn enough to make you capable of dealing with technological issues as a citizen, scholar, and consumer. Topics will include Native American technologies, Benjamin Franklin's inventions, labor-saving devices, military technology and the development of the American System of Manufactures, agriculture, mechanization of farming and of the home, and many other subjects from automobiles, automation, and artificial intelligence, to xerography, Y-technology, and zygote techniques for cloning.

Style: 33% Lecture, 20% Film/Video, 30% Small Group Activities, 5% Student Presentation, 12% Web Based. Students are permanently assigned to small groups for weekly discussions and presentations

Grading: 25% mid exam, 25% final exam, 15% quizzes, 10%

attendance, 25% class participation. Class participation grades are based on small group discussions, attendance (required)

Exam Format: Short essay identification

HSCI 5993 Directed Studies
1-15 credit(s), max credits 15, 1 completion allowed; prereq instr consent;

Instructor: Alexander, Jennifer Karns

Description: Student may contact the instructor or department for information.

HSCI 8112 Historiography of Science, Technology, and Medicine

A-F only, 3 credit(s);

Instructor: Borrello, Mark E

Description: Student may contact the instructor or department for information.

HSCI 8421 Social and Cultural Studies of Science
3 credit(s);

Instructor: Alexander, Jennifer Karns

Description: This seminar examines prominent theories of technological change, against the backdrop of three historical, empirical examples: the printing revolution and the contemporary revolution in electronic communications; industrial revolutions and the current challenge of industrial globalization; and technology's role in historical/ongoing debates about the meaning and value of human work. Topics include technological determinism, social construction of technology, actor-network theory, and activity theory; communications, orality, literacy, and electracy; semiotics and post-modernity; work, economics, and self; and democracy and the user's critique of technology.

HSCI 8441 Women in Science: Historical Perspectives
3 credit(s); prereq instr consent;

Instructor: Kohlstedt, Sally Gregory

Description: Women, gender, and science are intersecting themes. This history class will consider historical patterns from the seventeenth century to the present: the goals and incentives of women in science, the patterns of their participation, and the gendered configurations that influence the practice and substance of science. The participation of women in science will be addressed through biographies of some well-known women scientists; accounts of the many women writers, illustrators, and teachers fundamental in the development of modern science; and discussions about women in scientific and medical literature. The institutional organizations and patterns of participation that influenced women's lives vary considerably by time and place, making historical outlook critical. Increasingly scholars have been investigating the ways in which women's participation intersects with the gendered practices of science. Gender constructions external to and within science frame issues in science as well as medicine and technology. We will meet weekly for discussion and presentations based on readings and other class preparation. Sources continue to multiply on this topic as professional scientific associations create web sites about women in specific disciplines, as film makers place women in scientific and medical situations, and as scholars investigate women's lives through archival records.

Style: The class will use a variety of resources to participate in class activities - panel discussions, debates, and even impersonations if there are students with a theatrical bent. We will use of an internet resources on women scientific travelers.

Hmong
453 Folwell Hall

HMNG 1011 Beginning Hmong
5 credit(s); Credit will not be granted if credit has been received for: HMNG 4001;

Instructor: Yang, Kia

Description: Student may contact the instructor or department for information.

HMNG 1011 Beginning Hmong

5 credit(s); Credit will not be granted if credit has been received for: HMNG 4001;

Instructor: LeYang,Maxwell

Description: Beginning Hmong 1011 is a course that teaches Hmong to true beginners (native speakers and non-native speakers). Students who have inherited the basics of the written language are advised to take the Accelerated Hmong course offers on Monday and Wednesday. The contents of Beginning Hmong 1011 include an exposure to the primary level of the written language, basic everyday conversation, and elementary vocabularies. The course will familiarize students with Hmong alphabets (tone markers, singular and plural vowels and consonants), pronunciation, sentence structure, and the parts of speech. Class activities will be designed surrounding health, education, and consumer themes. A minimum exploration of Hmong culture will be emphasized. Upon completion of this course, students are expected to be able to converse in simple Hmong dialogues and compose simple paragraphs. Required Texts The text for the course is Phau Xyaum Nyeem Ntawv Hmong Dawb. There will also be supplemental materials provided by the instructor. You can find the Text at Paradigm.

Style: 50% Lecture, 25% Discussion. class and project activities
Grading: 30% final exam, 30% quizzes, 10% in-class presentation, 10% class participation, 10% problem solving, 10% other evaluation. Project

Exam Format: multiple choice, short answers, true/false

can find the Text at Paradigm.

Style: 50% Lecture, 25% Discussion. class and project activities
Grading: 30% final exam, 30% quizzes, 10% in-class presentation, 10% class participation, 10% problem solving, 10% other evaluation. Project

Exam Format: multiple choice, short answers, true/false

HMNG 4003 Intermediate Hmong

3 credit(s); prereq 4002, grad student; Credit will not be granted if credit has been received for: HMNG 3021;

Instructor: Vang,Bee

Description: Student may contact the instructor or department for information.

HMNG 4005 Accelerated Beginning Hmong

3 credit(s); prereq Ability in basic spoken Hmong, grad student; Credit will not be granted if credit has been received for: HMNG 1015;

Instructor: Vang,Bee

Description: Student may contact the instructor or department for information.

HMNG 4007 Advanced Hmong

3 credit(s); prereq 4004 or equiv or instr consent ; Credit will not be granted if credit has been received for: HMNG 3031;

Instructor: LeYang,Maxwell

Description: Student may contact the instructor or department for information.

HMNG 1015 Accelerated Beginning Hmong

5 credit(s); prereq Ability in basic spoken Hmong; Credit will not be granted if credit has been received for: HMNG 4005;

Instructor: Vang,Bee

Description: Student may contact the instructor or department for information.

HMNG 3021 Intermediate Hmong

5 credit(s); prereq 1012; Credit will not be granted if credit has been received for: HMNG 4003;

Instructor: Vang,Bee

Description: Student may contact the instructor or department for information.

HMNG 3031 Advanced Hmong

4 credit(s); prereq 3022 or equiv or instr consent ; Credit will not be granted if credit has been received for: HMNG 4007;

Instructor: LeYang,Maxwell

Description: Student may contact the instructor or department for information.

HMNG 4001 Beginning Hmong

3 credit(s); prereq Grad student; Credit will not be granted if credit has been received for: HMNG 1011;

Instructor: LeYang,Maxwell

Description: This 4xxx-level course is a special option for graduate or professional students to take the 1xxx-level Beginning Hmong course for reduced credits. If you are a graduate or professional student, you may register for Beginning Hmong under the 4001 course number for 3 credits. Credit will not be granted if credit has been received for HMNG 1011. Beginning Hmong 4001 is a course that teaches Hmong to true beginners (native speakers and non-native speakers). Students who have inherited the basics of the written language are advised to take the Accelerated Hmong course offers on Monday and Wednesday. The contents of Beginning Hmong 4001 include an exposure to the primary level of the written language, basic everyday conversation, and elementary vocabularies. The course will familiarize students with Hmong alphabets (tone markers, singular and plural vowels and consonants), pronunciation, sentence structure, and the parts of speech. Class activities will be designed surrounding health, education, and consumer themes. A minimum exploration of Hmong culture will be emphasized. Upon completion of this course, students are expected to be able to converse in simple Hmong dialogues and compose simple paragraphs. Required Texts The text for the course is Phau Xyaum Nyeem Ntawv Hmong Dawb. There will also be supplemental materials provided by the instructor. You

Honors Seminar

20 Nicholson Hall

HSEM 2005H Honors Seminar: Separate and Unequal?:Race &Class, Postwar America

A-F only, 3 credit(s), max credits 9, 3 completions allowed; prereq Fr or soph honors;

Instructor: Karjanen,David J

Description: HSem 2005H Separate and Unequal? Race and Class in Postwar America to the Present With the historic election of Barack Obama to the Presidency, Americans are re-thinking issues of race, class, and opportunity in America. This seminar examines the issues of race and class in postwar (1945+) America, as intersecting systems of inequality and difference that have shaped American life and influenced global ideas of equality in the United States. We begin with a historical look at the different ways that race and class have been thought about and debated in American society?such as the classification of Irish immigrants as non-white, Scandinavian immigrants as Slavs, and the idea that the poor are biologically different from wealthy people. The course then examines the cold war and civil rights debates to see how these ideas were transformed, or reinforced. We then focus on the post 1960s debates around poverty, race, class and opportunity in American society and examine how these ideas have shaped current understandings of race, class, and politics in the United States. We conclude with a contemporary discussion of race and class issues seen through the lens of popular culture, such as Spike Lee?s films, and the racial and class politics of Eminem?s film 8 mile. David Karjanen is assistant professor of American Studies. He was a Fulbright Scholar and postdoctoral scholar at the Center for Comparative Immigration Studies. His research focuses on globalization, migration, and racial and class issues in the US and abroad.

HSEM 2039H Honors Seminar: Thursdays At Four: Across the U and Beyond

A-F only, 3 credit(s), max credits 9, 3 completions allowed; prereq [Fr or soph], honors;

Instructor: Smith,Susannah L

Description: HSem 2039H Thursday at 4: Across the U and Beyond The course is built around the Institute for Advanced Study's Thursdays at Four series. In this series scholars and artists present their work -- a wide spectrum of topics is covered,

and it varies every semester. Students in the seminar attend all the Thursday presentations, and then we meet in seminar on Tuesdays to talk about the presentations specifically, and more generally about how different sorts of research and creative activity are pursued at the University and how scholars in different disciplines communicate what they do. For many of the presentations we have background reading, and as schedules permit the presenters will attend the seminar following their presentation to talk in depth with the students. The objectives of the class are to familiarize you to the wide range of intellectual life at the University, engage you in the intellectual life of the University, and introduce you to different kinds of academic reading, writing, and modes of presentation. Class structure: Public lectures followed by seminar discussion Work Load: Three short papers (2-3 pp.), one in-class presentation, attendance at one event outside of class (student's choice, with instructor approval). Weekly readings vary from no assignment at all to 40 pp., with the average reading around 20 pp. No quizzes or exams. Grading: Writing (3 papers) 60%, Participation 30%; Attendance 10%. Susanna L. Smith is a historian and the Managing Director of the Institute for Advanced Study. Her research is on Russian and Soviet music and national identity in the Stalin period; her position at the Institute allows her to exercise her curiosity about a wide set of subjects, from physics to art, animal behavior to human psychology, and archeology to foreign policy.

HSEM 2045H Honors Seminar: You are Buddha: Zen of Peace
A-F only, 3 credit(s), max credits 9, 3 completions allowed;
prereq [Fr or soph] honors student;
Instructor: Junghare, Indira Y
Description: Student may contact the instructor or department for information.

HSEM 2053H Honors Seminar: The Psychology of Paranormal Phenomena
A-F only, 3 credit(s), max credits 12, 4 completions allowed;
prereq [Fr or soph] honors student;
Instructor: Fletcher, Charles R
Description: HSEM 2053H The Psychology of Paranormal Phenomena Research has shown that most Americans hold one or more supernatural, paranormal, or pseudoscientific beliefs. These include beliefs in mind reading, fortune telling, psychokinesis, remote viewing, therapeutic touch, out-of-body experiences, alien abduction, and cryptozoology. This course has two goals: The first is to introduce students to critical thinking and behavioral research methods. The second is to critically evaluate the evidence for a variety of supernatural, paranormal, and pseudoscientific claims. Students will design and carry out their own experimental tests of these claims. The course will also include a guest lecture and demonstration by a local psychic. Reading per week: 40 Pages. Three written papers (3-5 pages each), one group presentation, 4 quizzes. Charles R (Randy) Fletcher holds a B.A. in Psychology from the University of California at Berkeley and a Ph.D. in Psychology from the University of Colorado at Boulder. He conducts research on the psychological processes involved in reading and language comprehension. He teaches the Psychology Department's Honors Research Practicum and a course on The Psychology of Language.

HSEM 2101H Honors Seminar: Food and Drug Safety: Who can you trust?
A-F only, 2 credit(s), max credits 9, 3 completions allowed;
prereq [Fr or soph], honors;
Instructor: Siliciano, Paul G
Description: HSEM 2101H Food and Drug Safety: Who Can You Trust? Each time you pick up the newspaper, you are likely to find an article describing concerns about food or drug safety. Often, new studies are released that contradict the findings of previous studies. For example, hormone replacement therapy for post menopausal women has been through repeated cycles of recommendation and rejection over the past 30 years. How does the consumer know which study to believe? Consider the case of Vioxx, a non-prescription pain reliever and anti-inflammatory drug, which was widely prescribed and earned billions of dollars

for Merck. Five years after its introduction, Vioxx was linked to heart disease and withdrawn, and Merck lost billions in lawsuits. How did Vioxx go from wonder drug to potential poison? Why did the safety testing not reveal this serious complication? This seminar will introduce students to the processes of food and drug testing, basic statistical analysis, and elementary biochemistry. Students will use the primary literature to research safety studies, and to learn how the body metabolizes foods and drugs. The course is designed for non-science majors, but a background in high school chemistry is required. Paul Siliciano received his A.B. from Princeton University and his Ph.D. from the University of Pennsylvania. After a postdoctoral fellowship at the University of California, San Francisco, he came to Minnesota and set up his lab studying RNA metabolism. He has taught everything from freshman biology to advanced graduate seminars, but his favorite courses to teach are those that introduce practical biochemistry to non-majors.

HSEM 2103H Honors Seminar: Environmental Topics in Popular Literature
A-F only, 2 credit(s), max credits 9, 3 completions allowed;
prereq Fr or soph honors;
Instructor: Wassenberg, Deena Marie
Description: HSEM 2103H A Novel Environment: Environmental Topics Explored through Popular Literature This course will explore topics in ecology, evolution, and environmental science through reading two novels, *Prodigal Summer* by Barbara Kingsolver and *The Milagro Beanfield War* by John Nichols. A main focus of the course will be on science topics; human environmental behaviors, however, are only partially guided by science. Economics, socioeconomics, culture, local history, and interpersonal relations are arguably more influential than science in determining how humans use environmental resources and alter landscapes and ecology. This course uses popular fiction to generate interest in ecological topics, evolutionary biology, and environmental science within the context of a human story. Topics of exploration will include natural selection, sexual selection, kin selection, keystone predators, agricultural use of pesticides, water shortages and rights, environmental decision-making, and environmental justice. Students will research scientific and environmental topics, present their findings to the class, and lead discussions about these topics. Deena Wassenberg is an environmental toxicologist interested in the effects of environmental contaminants on organisms and ecosystems. She received her B.S. from the University of Wisconsin-Madison and her Ph.D. from Duke University's Nicholas School of the Environment. She is a teaching assistant professor in the Biology Program and teaches in the Foundations of Biology sequence.

HSEM 2205H Honors Seminar: Signs and Symbols in Chinese Culture
A-F only, 2 credit(s), max credits 6; prereq freshman or sophomore Honors student;
Instructor: Chu, Sauman
Description: HSEM 2205H Signs and Symbols in Chinese Culture This class will focus on studying the interpretation of Chinese signs and symbols, and particularly the relationship between pictographs and written characters in Chinese culture. Class content is based on theories of visual communication, and symbolism in visual icons and images. It will focus on examining the elements involved in the perceptual process of the interpreter. Additionally, this course will examine design elements such as the use of form, line, color, and shape in Chinese symbols relative to social and cultural influences. Sauman Chu is an Associate Professor teaching in graphic design. Her research focuses on cross-cultural design and the application of technology in design education. Research projects include cross-cultural comparisons of visual perception and understanding of symbols, design variables in multilingual printed and online materials, symbol design in computer games, and the exploration and creation of digital game-based learning.

HSEM 2535H Honors Seminar: The Deep Underground Sky
A-F only, 2 credit(s), max credits 9, 3 completions allowed;
prereq [Fr or soph], honors;

Instructor: Marshak, Marvin L

Description: HSem 2535H The Deep Underground Sky During the past several decades, efforts to better understand the Universe have motivated multiple experiments in deep underground laboratories, which are shielded from cosmic rays by hundreds or thousands of meters of rock. This seminar will describe these experiments on topics such as dark matter, neutrino mass, proton decay, double beta decay, nuclear astrophysics, gravity wave interferometers and low background counting; the science motivating them and the knowledge that has come from them. The seminar will include a Saturday visit (currently planned for Sept. 26, 2009) to the Underground Laboratory in Soudan MN, which houses the world's most sensitive dark matter and neutrino oscillation experiments. Marvin Marshak is an experimental particle physicist, whose research focuses on the physics of neutrinos, the lightest currently known fundamental particles. He is currently involved in two experiments MINOS and NOvA that use a unique neutrino beam from Fermilab (near Chicago) to Soudan in northern Minnesota. He is also the Principal Investigator for a proposed 5,000 ton Liquid Argon Neutrino and Proton Decay Detector to be located in the Homestake Mine in the Black Hills in South Dakota.

HSEM 3019H Honors Seminar: Language, Identity and Globalization

A-F only, 3 credit(s), max credits 9, 3 completions allowed; prereq Jr or sr honors;

Instructor: Sheldon, Amy

Description: HSem 3019H Language, Identity, and Globalization We have documented more than 6,000 languages that are spoken in the world. More people are speakers of multiple languages than are monolingual. The social life of even a single language contains produces a challenging and sometimes even bewildering mix of social and individual identities. This course will explore the ways that a person's language(s) and identity (ies) are inevitably entwined. The social life of language is an important aspect that contributes to the dynamics of local and global society in the 21st Century. Therefore, it is important to come to an awareness of the many ways in which a person or a group's identity is tied to their language(s). Students will become intrigued as they uncover the powerful role that language plays in their individual life and in our global lives. Amy Sheldon is a professor of Communication Studies and the Program in Linguistics. She grew up in New York City, in a multilingual community, in which some members were represented as speaking "with an accent." Her research has been in on a variety of issues, including first and second language acquisition, linguistic universals, language and gender, discourse analysis, narrative, language and media.

HSEM 3021H Honors Seminar: Objects of Our (Dis)Affection: Myths of Childhood?

A-F only, 3 credit(s), max credits 9, 3 completions allowed; prereq Jr or sr honors;

Instructor: Hubbard, Kysa Koerner

Description: HSem 3021H Objects of our (Dis)Affection: Pretty Girls, Distracted Boys, and Little Criminal Monsters Looking beyond questions of representational truth, this seminar examines and theorizes the relationship between abstract ways of seeing childhood and the "real," i.e., material world from which these visions emerge and diverge. Beginning with the fundamental question of what is a "child?" an inevitably political and ideological question shaped by notions of class, race, gender, we will study childhood as refracted through the prisms of these three contexts: [1] "The Legal Child?"; [2] "The 'Normal' Child?"; and [3] "The (Sexy?) Child-Adult." Over the course of fifteen weeks we will: [1] study historical and contemporary visual and textual representations and discourses of childhood; [2] examine and theorize historical processes and materials, as well as ideological and economic structures and systems that have gone into the (re)making of childhood and the "normal" and "abnormal" child circumscribed within it; [3] explore philosophical and theoretical models that have shaped past and present thinking about class, gender, race, sexuality, and age in relation to childhood; [4] engage issues of ideology, politics, and

power as they intersect with concepts and practices of contemporary childhood and its representation Kysa Koerner Hubbard is an adjunct lecturer in the Department of Cultural Studies and Comparative Literature. She completed her Ph.D. at the University of Minnesota under the supervision of Jack Zipes, an internationally known scholar in the field of children's literature. Dr. Hubbard studies the contemporary construction of adult-child relations and the relationship of childhood to the collective psychic, social, political, and economic life of contemporary U.S. culture. She is currently working on a book project tentatively titled *Civilizing Childhood: The Rational Alienation of Parents and Children*.

HSEM 3033H Honors Seminar: Getting Lost with Kafka
A-F only, 3 credit(s), max credits 12, 4 completions allowed; Instructor: Morris, Leslie C

Description: HSem 3033H Getting Lost with Kafka This seminar will provide an in-depth reading of Kafka's work that will situate Kafka at the crossroads of European modernity and within the debates about Jewish culture and identity in Prague. We will consider questions such as the relationship between Jewish subjectivity and Jewish text; Deleuze and Guattari's formulation of Kafka's work as exemplary of a "minor" literature; the relationship between Jewish text and the Law; and the tropes of disorientation, travel, dislocation, displacement, and "getting lost" in Kafka's work. Kafka's work has generated an enormous body of critical reflection from various corners of critical and literary theory. We will explore these responses to Kafka, and also take into account the various "after-lives" Kafka has engendered in contemporary art, film, and literature, from Andy Warhol's silk-screens of Kafka to the work of Haruki Murakami. In addition to works by Kafka, we will also read critical and theoretical works by Walter Benjamin, Adorno, Sartre, Lukacs, Canetti, Blanchot, Gershom Sholem, Derrida, Deleuze, and Guattari, Leslie Morris is Associate Professor of German and Director of the Center for Jewish Studies at the University of Minnesota. She is the author of a book on history and memory in Ingeborg Bachmann's poetry, and co-editor, with Karen Remmler, of *Contemporary Jewish Writing in Germany*. She has also co-edited, with Jack Zipes, *Unlikely History: The Changing German-Jewish Symbiosis*. She has written articles on the poetics of exile, diaspora, translation, sound and memory. She is currently completing a book entitled *The Trans-Jewish: Translating Jewish Memory in Germany Today*.

HSEM 3034H Honors Seminar: Adoption in Literature: Real and Imagined

A-F only, 3 credit(s), max credits 3, 1 completion allowed; prereq [Jr or sr], honors;

Instructor: Zagar, Monika

Description: HSem 3034H Adoption in Literature: Real and Imagined This course will look at issues related to adoption as described by those who became part of it willingly or unwillingly. The family will be examined as a flexible and changeable framework for exploration of identity, kinship, and love. While the students will read several texts from the social sciences, the instructor believes that literature might be a better venue for exploration of the personal details of this often-painful process. Ranging from descriptions of a search for closure or pursuits of biological ties to a bold reinvention of daily identity and family, the assigned texts offer a moving portrait of a complex process. A significant part of the course will be devoted to the issues of trans-national adoptions, which, in addition to reinventing families, often cross racial and continental divides. With texts chosen from two geographically and culturally different regions—the United States and Scandinavia—one of the goals of this seminar will be to establish how cultural practices influence attitudes toward adoption. The writers discussed will include A.M.Homes, Meredith Hall, and M. Myung-Ok Lee. The films for this course will include *Secrets & Lies* and *The Italian*. Monika Zagar received her Ph.D. in Scandinavian Studies from UC Berkeley in 1994, and was tenured at University of Minnesota in 2001. She has taught a variety of courses on literature, culture, and women's issues related to the Nordic countries. Zagar's book, *Knut Hamsun: The Dark Side of Literary Brilliance*, will be published in the summer of 2009.

HSEM 3047H Honors Seminar: Music around Us:**Political/Social/Cultural Context****A-F only, 3 credit(s), max credits 12, 4 completions allowed; prereq [Jr or sr] honors student;****Instructor:** Painter PhD, Karen

Description: HSem 3047H Music around Us: Political, Social, and Cultural Contexts for Listening Listening is profoundly affected by context. Is music the background to a film, video game, shopping mall, and political rally, or is it foregrounded at a concert hall, rock concert, and through an I-pod? Often this distinction between background and foreground erodes, as in musicals and operas where music and drama are equally important. This course will explore the range of listening experiences in the history of Western music from Mozart to Eminem. Readings will draw on journalism, literary works, letters and diaries that illuminate how and why people listen to music. Music affects our emotions, but often more is at stake. Listening can be physical, and not just in dances and at parades. Some listeners report spiritual, even metaphysical experiences. How does musical style affect the listening experience, and what elements of music (melody, rhythm, the color of the sound) compel a physical reaction? Beyond emotional gratification, what social values are promoted through music? Moreover, since 1800, music also served political ends? as a symbol for national identity, a construction of racial purity, or a call to arms. We will examine case studies in which music affected historical developments? the growth of the middle class, totalitarianism, and social protest. Karen Painter, associate professor in the School of Music, writes on the history of musical listening, especially in the context of ideology and social history. The framework for her research has involved early bourgeois musical culture, fin-de-siecle cultural debates, World War I, Austro-German socialism, and Nazism.

HSEM 3051H Honors Seminar: Political Psych of Conformity, Enmity & Heroism**A-F only, 3 credit(s), max credits 12, 4 completions allowed; prereq [Jr or sr] honors student;****Instructor:** Sullivan, John L

Description: HSem 3051H The Political Psychology of Conformity, Enmity, and Heroism The first part of the seminar examines the power of conformity, denial, and obedience in politics at the individual and collective levels. Exploring concepts such as groupthink, the spiral of silence, the politics of denial, crimes of obedience and personal authoritarianism, an overarching theme will be an assessment of the role played by threat perceptions and fear responses. To counterbalance the pessimism inherent in such topics, the second part of the seminar will examine a more positive end of the spectrum? political altruism and heroic political action. Considering work on political resistance, whistle-blowing and rescue activities, we will examine examples such as Le Chambon during World War II and the Mothers of the Plaza de Mayo in Argentina during the Pinochet regime. From this baseline we will extract theories and concepts to apply during the third part of the seminar, which will focus on the U.S. use of torture since 9-11 and resistance to this policy. Readings will include, among others, selections from the works of Janis, Noelle-Neumann, Kelman, Staub, Aronson, Stenner, the Oliners, and Thalhammer & O?Loughlin. During the third portion of the semester, when we focus on recent U.S. policy, we will examine selections from authors such as Greenberg, Kahn, Ratner, and Margulies. John Sullivan has been at the University of Minnesota, where he is now a Regents Professor, since 1975. He teaches courses on political psychology, American politics and quantitative research methods. Professor Sullivan is a Fellow of American Academy of Arts & Sciences, winner of undergraduate and graduate teaching awards, and co-author or co-editor of Cooperation: The Political Psychology of Effective Human Interaction; The Political Psychology of Democratic Citizenship; With Malice Toward Some, Political Tolerance in Context; and Political Tolerance & American Democracy.

HSEM 3067V Honors Seminar: Writing and Social Change in America**A-F only, 3 credit(s), max credits 6; Meets CLE req of Writing****Intensive;****Instructor:** Ross Jr, Donald

Description: HSem 3067H Writing and Social Change in America In the first half of the seminar, we will develop some of the key issues using examples from the late 18th through the 19th century. These will include Paine?s Common Sense, the ?Declaration of Independence? and the Constitution and Federalist Papers, Cummins? The Lamplighter (an early best-seller), Stowe?s Uncle Tom?s Cabin, and Twain?s Tom Sawyer. In addition to reading the texts, students will track down contemporary reactions: book reviews, advertisements, letters and journals, etc. Doing 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 involve students? selecting and reporting on twentieth-century texts. I hope this will produce a wide range of examples, and that students will track down influential texts in their own areas of interest. For example, the student of politics might present Wilson?s 14 Points, King?s ?I have a dream? or letter from Birmingham Jail. 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. We will also investigate the ways that media (TV, movies) interact to create and maintain best selling books. Donald Ross is a professor of Writing Studies and English whose main area of interest is American literature, especially in the nineteenth century. His publications include a co-authored book on Thoreau, articles and chapters on travel writing and the teaching of composition. He has been on the faculty since 1971. He taught honors seminars on this topic in 2000, 2001, and 2008.

HSEM 3801H Honors Seminar: Corporate Governance and Ethical Considerations**A-F only, 2 credit(s), max credits 9, 3 completions allowed; prereq [Jr or sr], honors;****Instructor:** Babaeva, Gulzar

Description: Corporate Governance and Ethical Considerations This class explores various topics relating to business organizations, including its internal and external governance and regulation, and its impact on society. We will begin by having an introduction to business organizations and different types of business entities. We will examine the duties and responsibilities of corporate officers and directors, especially in the wake of Enron and other corporate scandals. We will analyze how business decisions impact various stakeholders and whether the law is enough to promote ethical behavior. Students will also examine whether corporate social responsibility in our current world is a realistic or an altruistic thought. Last but not least, we will look at current events and apply the principles discussed in class. Gulzar Babaeva is an alum of the CLA Honors Program and is an attorney at the law firm of Fredrikson & Byron. She advises emerging and established companies on a broad range of corporate matters, including corporate governance. For more information please visit: <http://www.fredlaw.com/bios/attorneys/babaevagulzar/>.

Horticultural Science

305 Alderman Hall

HORT 1001 Plant Propagation**4 credit(s); Meets CLE req of Biological Sciences/Lab Core; Instructor:** Michaels, Thomas E

Description: CAUTION: This course will have you excitedly describing cool things about plants to your friends and family in embarrassing detail! Plant Propagation immerses you in learning the fundamental biological concepts of plant structure, growth and reproduction, and challenges you to apply these concepts in the greenhouse to hands-on plant propagation. By the end of the course, we expect that you will know how to describe plant parts and their cellular structures through illustrations and by using the language of biology. You will be able to recognize and document these plant parts and structures in the world around you and know examples of how they relate to your life. Through lecture

and laboratory experiences you will know how to use scientific ways of inquiry to investigate questions and how to make science-based decisions. You will know how to successfully propagate plants using several different methods, and you will take home and show off the plants you have reproduced. The lecture content for this course will be delivered primarily on-line through the use of audio, video, text and discussions hosted on WebVista. You MUST have reliable internet access several times each week to access lecture materials and the capacity to listen to downloaded mp3 lecture companion podcasts and watch windows media videos. You MUST have weekly access to a rudimentary digital camera (it doesn't have to be fancy), and the ability to upload to UThink blogs images that clearly and accurately document assigned examples of subjects introduced during the lectures. You will have a face to face class meeting at 11:45am on your scheduled laboratory day for further exploration of the on-line lecture subjects, for quizzes and to hand in homework. Click on the Course URL for more information, view a video and see examples of lectures and assignments.

Style: 30% Laboratory, 10% Demonstration, 60% Web Based.

Lectures are delivered on-line via WebVista with mp3 lecture companion podcasts and wmv videos

Grading: 37% mid exam, 8% final exam, 25% reports/papers, 10% quizzes, 10% written homework, 10% laboratory evaluation. Reports and Papers are associated with the laboratory projects. These percentages are approximations to assist with your registration planning.

Exam Format: Multiple choice, matching, draw and label diagrams, short answer, brief essay. Final will be comprehensive. These formats are approximations to assist with your registration planning.

HORT 1013 Floral Design

3 credit(s);

Instructor: Anderson, Neil O.

Description: Floral design is a course to educate students in the creation of professional floral designs to enhance the human experience in a variety of occasions. Floral design is a prime example of a horticulture discipline which encompasses a wide range of subjects across the educational spectrum, such as physics, mechanical engineering, art, history, horticulture, landscape architecture, architecture, liberal arts, music, business, human ecology, food science, biology, botany, ecology, medicine, and mortuary science. Flowers have historically been used to express emotions; we will examine the historic uses of flowers in various civilizations for celebrating human life and death, as well as how these uses influence our current floral design spectrum. Additional features of flowers, such as fragrance, will demonstrate the sensory value of their use. Students from a diverse array of majors, professional interests, and rank across the university (undergraduate, continuing education, MAST, Master of Agriculture, graduate, Regent's Scholars) enroll in Floral Design each year. Environmental Horticulture undergraduate students may enroll in this class to fulfill a Hort elective. The class is designed to allow your creative and artistic talents blossom as you learn to about the artistic use of flowers. It may be a welcome stress-reliever in your busy schedules. Additionally, depending on your professional background, this course will aid in enhancing your career in any field.

Style: 18% Lecture, 15% Discussion, 67% Laboratory.

Grading: 40% mid exam, 10% reports/papers, 5% quizzes, 45% laboratory evaluation.

Exam Format: T/F, essay, observational

HORT 1013 Floral Design

3 credit(s);

Instructor: Anderson, Neil O.

Description: Student may contact the instructor or department for information.

HORT 1015 Woody and Herbaceous Plants

A-F only, 4 credit(s);

Instructor: McGinnis, Esther Ebata

Description: During this course you will master the skills that will allow you to identify plants from around the world. By the end of

the term, you will have been introduced to a few hundred of the most important herbaceous and woody cultivated plants for northern climates. You will learn their distinguishing features for identification, common uses, cultural specificities, and notable cultivars. In addition to the regular class sessions, there will be one Saturday field trip during the term.

Style: 31% Lecture, 69% Laboratory.

Grading: 58% mid exam, 28% reports/papers, 14% quizzes.

Exam Format: fill in the blank, short answers

HORT 1015 Woody and Herbaceous Plants

A-F only, 4 credit(s);

Instructor: Hokanson, Stan C

Description: During this course you will master the skills that will allow you to identify plants from around the world. By the end of the term, you will have been introduced to a few hundred of the most important herbaceous and woody cultivated plants for northern climates. You will learn their distinguishing features for identification, common uses, cultural specificities, and notable cultivars. In addition to the regular class sessions, there will be one Saturday field trip during the term.

Style: 31% Lecture, 69% Laboratory.

Grading: 58% mid exam, 28% reports/papers, 14% quizzes.

Exam Format: fill in the blank, short answers

HORT 1031 Vines and Wines: Introduction to Viticulture and Enology

OPT No Aud, 3 credit(s); prereq 21 yrs of age by date of 1st class meeting;

Instructor: Luby, James Joseph

Description: This course is an introduction to the principles of growing grapes (viticulture), making wine (enology), and an appreciation of the historical, geographical and sensory diversity of wine. The course is taught in part with 20 to 50 minute online lectures (Adobe Presenter) format. Usually 2 or 3 of these are covered each week. The class also meets one evening each week for a combination lecture/sensory session. There is one field trip to a local winery scheduled during the regular weekly class time. Upon completion of this course, each student will understand and have a working knowledge of the following concepts: 1. The process of fermentation and its role in wine production. 2. Fundamental principles of biology and culture of the grapevine. 3. Types of wine and their production differences. 4. 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. 5. Systematic evaluation of wine sensory characteristics. 6. Commercial wine labels and the information they provide. 7. The basic aspects of plant anatomy, using the grapevine as a model. 8. The major genetic factors in grapes that contribute to wine quality. 9. How cultural and environmental factors affect wine quality and yield. 10. Selection, planting, and cultivation of grapevines in a home garden. 11. Current issues involving wine and human health. 12. Current social and legal issues involving wine.

Style: 15% Lecture, 15% Discussion, 10% Small Group Activities, 5% Field Trips, 10% Guest Speakers, 40% Web Based.

Grading: 20% special projects, 56% quizzes, 16% written homework, 4% in-class presentation, 4% other evaluation.

HORT 1061 The Sustainable Lawn

3 credit(s);

Instructor: Watkins, Eric

Description: Millions of acres across the United States are devoted to turfgrass. Home lawns, parks, athletic fields, golf course, and other turf areas play an important role in environmental quality. Homeowners have little knowledge about fertilizer and pesticide use, irrigation, and mowing. Although the impact of an individual homeowner may be small, the effect of millions of acres of home lawns can be significant. This course will focus on sustainable turfgrass management for the home lawn. The content will be presented in a fashion that focuses on environmentally responsible turfgrass management. The course will begin by presenting an overview of basic horticultural principles and then focus on turfgrass-specific topics. Lectures will provide information necessary for laboratory and discussion

portions of the course. Students will learn how to identify common turfgrasses and then how to properly manage a home lawn in a sustainable way. The course will be presented entirely online and make extensive use of online discussion forums, wikis, blogs, and interactive Flash modules. Students will discuss important turfgrass science topics such as fertilizer run-off, pesticide use, and genetically-modified turf. This course will also equip students with the knowledge and tools necessary to maintain quality turf areas with reduced inputs, thereby reducing potential risk to the environment.

Style: 40% Lecture, 40% Discussion, 20% Laboratory.

Grading: 15% mid exam, 20% final exam, 10% reports/papers, 10% special projects, 10% quizzes, 5% in-class presentation, 10% class participation, 10% problem solving. lab work 10%

HORT 1905 Freshman Seminar: Local Food: Grow, Store, Buy Sustainable Organics

2 credit(s), max credits 3, 1 completion allowed; prereq Fr; Instructor: Markhart III, Albert Henry

Description: This seminar will focus on local foods - where it comes from, who grow it, and the environmental implications for consumers. The class will provide students with unique content on our food system and the current and potential roles of local food production. As part of our time together, two field trips are required; one to the Minnesota Landscape Arboretum and the other as a service learning experience to the Dream for Wild Health organic farm with additional stops at the Minnesota Food Association CSA, Stillwater, and Pine Tree Apple Orchard. These experiential learning opportunities will be integrated with scholarly readings, to include Aldo Leopold's A Fierce Green Fire, Sir Albert Howard's An Agricultural Testament, Randal Beeman and James Pritchard's A Green and Permanent Land, Clive Ponting's A Green History of the World, Michael Pollan's In Defense of Food, and Omnivores Dilemma, and Eliot Coleman's The Four Season Harvest. In addition, parts of HORT 1905 will provide introductions to CFANS and University Services including career, counseling, and international programs. Small and large group discussions will focus on transition and life style issues that often face freshman students. Writing will be integrated in to this seminar, some of which will be edited and graded; other assignments will be formative to encourage student reflection and the development of ideas while at the same time encourage individual growth and adjustment to the university environment.

Style: 10% Lecture, 10% Film/Video, 40% Discussion, 10% Small Group Activities, 20% Field Trips, 10% Guest Speakers.

Grading: 10% reports/papers, 25% special projects, 10% attendance, 10% journal, 10% reflection paper, 35% class participation.

HORT 2031 Organic Food: How to Grow It, Where to Buy It, Can it Feed the World?

A-F only, 3 credit(s);

Instructor: Markhart III, Albert Henry

Description: If you want to be able to grow your own healthful food in an environmentally friendly garden, if you want to know if you should buy organic food in the grocery store, coop, or farmer's market, if you have ever wondered if organic/sustainable food can feed the world then consider taking this course taught by a distinguished teaching award winner and long time organic gardener. The course brings lectures, readings, trips to coops, and hands dirty? work on the Student Organic Farm to provide students with the ability to grow their own food, become informed consumers, and appreciate the role of organic food from the backyard and community gardens, to local vegetable farms and the potential to feed the world. This class is intended to meet the needs of anyone interested in the food they eat. The only pre-requisites are an inquisitive mind, curiosity about what they eat, and a willingness to get ones hands dirty.

Style: 70% Lecture, 10% Film/Video, 20% Small Group Activities. Small Group activities will be working on the Student Organic Farm.

Grading: 30% mid exam, 25% final exam, 10% reports/papers, 20% special projects, 10% attendance, 5% in-class presentation.

HORT 2100 Agricultural Biochemistry

A-F only, 3 credit(s); prereq CHEM 1011 or [1015, Concurrent registration is required (or allowed) in 1017] or CHEM 1021 or instr consent ;

Instructor: Hegeman, Adrian D

Description: This course provides a fundamental chemical and biochemical foundation needed to master biotechnological topics as growing part of agricultural disciplines. Subject matter emphasizes qualitative understanding of key concepts in organic, analytical and biological chemistry with special emphasis on the chemistry, metabolism and development of plants

Style: 100% Lecture.

Grading: 30% mid exam, 30% final exam, 40% quizzes.

Exam Format: multiple choice and short answer

HORT 3090 Directed Studies

2-12 credit(s), max credits 72, 6 completions allowed; prereq Nonfr, instr consent;

Instructor: STAFF

Description: Approved field, lab or greenhouse experiences in application of horticultural information and practices.

HORT 4015 Advanced Woody and Herbaceous Plant Topics: Grasses, Sedges, and Fall Flowering Plants

A-F only, 1 credit(s), max credits 7, 7 completions allowed; prereq 1015;

Instructor: McGinnis, Esther Ebata

Description: Using the beautiful University of Minnesota Landscape Arboretum as our classroom, we will learn to identify monocot species from the Cyperaceae, Poaceae and Juncaceae families. An entire class will be devoted to Carex, an under-utilized genus with over 170 species native to our state. In addition to monocots, we will study fall blooming plants particularly in the Asteraceae and Lamiaceae families. Students will learn taxonomic terms, plant morphology and cultural information. Learning will be evaluated through a final identification exam and a paper emphasizing landscape uses.

Style: 30% Lecture, 70% Laboratory.

Grading: 70% final exam, 30% reports/papers.

HORT 4021 Landscape Design and Implementation I

4 credit(s); prereq [1001, 1015] or instr consent ;

Instructor: Rolph, Sandra Gale

Description: Student may contact the instructor or department for information.

HORT 4061W Turfgrass Management

A-F only, 3 credit(s); prereq 1001 or instr consent ; Meets CLE req of Writing Intensive;

Instructor: Watkins, Eric

Description: This course will focus on the basics of turfgrass management. Students will learn the basic principles of turfgrass growth and development, establishment, fertilization, mowing, cultivation, and irrigation. Students will also be trained in turfgrass species identification and common turfgrass management calculations.

Style: 45% Lecture, 15% Discussion, 20% Laboratory, 5% Small Group Activities, 5% Student Presentation, 5% Guest Speakers, 5% Web Based.

Grading: 20% mid exam, 15% final exam, 25% reports/papers, 10% special projects, 10% quizzes, 5% in-class presentation, 5% class participation, 10% laboratory evaluation.

Exam Format: short answer, essay

HORT 4062 Turfgrass Weed and Disease Science

A-F only, 3 credit(s); prereq 4061, PIPa 2001;

Instructor: Watkins, Eric

Description: Student may contact the instructor or department for information.

HORT 4062 Turfgrass Weed and Disease Science

A-F only, 3 credit(s); prereq 4061, PIPa 2001;

Instructor: Watkins, Eric

Description: The purpose of this course is to familiarize students with turfgrass weed and disease problems and provide

them with the knowledge to deal with these problems using an integrated approach. Students will learn the biology, identifying features, and management strategies for several important turfgrass diseases and weeds. Students will also learn how to apply IPM principles to turfgrass weed and disease problems.

Style: 25% Lecture, 25% Discussion, 50% Laboratory.

Grading: 15% mid exam, 15% final exam, 25% reports/papers, 10% quizzes, 5% in-class presentation, 5% class participation, 20% laboratory evaluation, 5% problem solving.

Exam Format: short answer, essay

HORT 4071W Applications of Biotechnology to Plant Improvement

4 credit(s); prereq [Biol 1009 or equiv or grad student], instr consent ; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Writing Intensive;

Instructor: Smith, Alan G

Description: Student may contact the instructor or department for information.

HORT 4096 Professional Experience Program: Internship S-N only, 1 credit(s), max credits 2; prereq CFANS undergrad, instr consent , completed internship contract; Instructor: STAFF

Description: This course provides an opportunity for professional experience in horticulture businesses, government agencies, arboreta, and botanical gardens achieved through a supervised practical experience. Must work a minimum of 250 hours. Hort 4096 may be repeated once for a total of 2 credits. Credit for the internship will only be granted after successful completion of one of the following projects: A. Write a 4-5 page paper detailing your internship experience. The focus of the paper should be determined in consultation with your advisor. B. Present a public seminar on your internship. C. Publish a webpage about your internship.

Grading: S/N only

HORT 4141W Nursery Management

A-F only, 4 credit(s); prereq 1001 or 1015 or instr consent ; Meets CLE req of Writing Intensive;

Instructor: Gillman, Jeffrey Hays

Description: This course will cover the basics of nursery production including such things as irrigation, fertilization and soil management. Other topics that will be discussed include propagation, unique growing systems, and others.

Style: 50% Lecture, 25% Discussion, 25% Laboratory.

Exam Format: multiple choice and essay

HORT 4461 Horticultural Marketing

A-F only, 3 credit(s); prereq APEC 1101 or ECON 1101; Credit will not be granted if credit has been received for: APEC 4461;

Instructor: Yue, Chengyan

Description: This course examines several major areas in horticultural marketing. First, we will introduce the difference between horticultural products and commercial commodities and what's special about horticultural marketing; Second, we analyze the functions performed by the horticultural marketing system. We analyze the marketing behavior of horticultural businesses (farms, wholesalers, garden centers?) and cover the core marketing components that should be used by every small horticultural business; Finally, the basic approaches of consumer research (survey techniques, non-hypothetical experimental approaches, conjoint analysis, etc.) will be introduced. The required textbook is Solomon, Michael R. and Elnora Stuart. 2003. Marketing: Real People, Real Choices, 3rd Ed. This course will consist of lectures, discussions, and student projects and presentations. Students will work on the projects in small group teams of three or four. The target audience is undergraduate students and master of agriculture students.

Style: 60% Lecture, 40% Discussion.

Grading: 30% mid exam, 20% final exam, 15% reports/papers, 10% quizzes, 20% in-class presentation, 5% class participation.

Exam Format: Multiple choice and short answer questions

HORT 5031 Organic Viticulture and Fruit Production

A-F only, 3 credit(s); prereq [1001, 3005] or instr consent ; Instructor: Hoover, Emily E.

Description: This course will cover principles of production of temperate-zone fruit crops focusing primarily on grapes, apples and berries. Topics covered will include site selection, disease, pest and weed management, cultivar selection, pruning and training systems, and post-harvest considerations. The course will include two Saturday field trips with visits to several local vineyards and orchards.

Style: 40% Lecture, 40% Discussion, field trips

Grading: 30% reports/papers, 10% in-class presentation, 10% class participation, 50% problem solving.

HORT 5031 Organic Viticulture and Fruit Production

A-F only, 3 credit(s); prereq [1001, 3005] or instr consent ; Instructor: Luby, James Joseph

Description: This course will cover principles of production of temperate-zone fruit crops focusing primarily on grapes, apples and berries. Topics covered will include site selection, disease, pest and weed management, cultivar selection, pruning and training systems, and post-harvest considerations. The course will include two Saturday field trips with visits to several local vineyards and orchards.

Style: 40% Lecture, 40% Discussion, field trips

Grading: 30% reports/papers, 10% in-class presentation, 10% class participation, 50% problem solving.

HORT 5090 Directed Studies

1-6 credit(s), max credits 18, 18 completions allowed; prereq 8 cr upper div Hort courses, instr consent ;

Instructor: STAFF

Description: Opportunities for in-depth exploration of concepts, technology, materials, or programs in specific areas to expand professional competency and self-confidence. Planning, organizing, implementing, and evaluating knowledge obtained from formal education and experience.

HORT 6002 Problem Solving in Horticulture

S-N only, 2-4 credit(s), max credits 4, 1 completion allowed; prereq Completion of 18 cr in master of agriculture in horticulture program or instr consent ;

Instructor: Hoover, Emily 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; prereq 9 grad cr in [ag or bio] science, instr consent;

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; prereq instr consent;

Instructor: Luby, James Joseph

Description: Student may contact the instructor or department for information.

HORT 8270 Graduate Seminar

A-F only, 1 credit(s); prereq Grad major in [hort or applied plant sciences or ent or agro or plnt brdg or plnt path or soil] or instr consent; Credit will not be granted if credit has been received for: AGRO 8270;

Instructor: Wyse, Donald L

Description: Student may contact the instructor or department for information.

Human Factors

1100 Mechanical Engineering

HUMF 5001 Foundations of Human Factors/Ergonomics

A-F only, 3 credit(s); prereq Enrollment in good standing,

grad HumF minor; Credit will not be granted if credit has been received for: KIN 5001;

Instructor: Smith,Thomas J

Description: The course will address these issues in the following contexts: Consumer Product Design; Cognitive Performance and Learning, Psychomotor Performance, Behavioral Cybernetics of Human Performance; Effects of Perturbed Sensory Feedback on Performance; Machine and Tool Performance; Interactive Performance with Complex Technological Systems (Human/Computer; Human/Robot); Occupational Performance and Safety; Social and Team Performance; Organizational Performance; and Performance of Complex Sociotechnical Systems (Aerospace, Educational, Manufacturing, Transportation, Community and Health Systems. Field tours of selected private sector operations are provided to complement classroom activities. Course assignments encompass a series of class presentations, reports, and term projects dealing with HF/E analyses of consumer product design, design of complex sociotechnical systems and job/workplace design features and issues. The course represents the core course in the campus-wide, interdisciplinary Human Factors Minor Program, and is intended for graduate and upper-level undergraduate students with an interest in the conceptual and practical aspects of HF/E science.

Style: 40% Lecture, 10% Discussion. student team presentations & field trips

HUMF 5211 Human Factors and Work Analysis

A-F only, 4 credit(s); Credit will not be granted if credit has been received for: IE 5511;

Instructor: Hayes,Caroline Clarke

Description: Student may contact the instructor or department for information.

HUMF 8001 Special Topics: Human Factors/Ergonomics

2-3 credit(s), max credits 3, 1 completion allowed; prereq Enrollment in good standing, grad HumF minor;

Instructor: Smith,Thomas J

Description: Student may contact the instructor or department for information.

Human Resource Development *330 Wulling Hall*

HRD 3001 Introduction to Human Resource Development **3 credit(s);**

Instructor: Fritsch,Jocelyn M

Description: Student may contact the instructor or department for information.

HRD 3196 Profession and Practice of Human Resource Development

2 credit(s); prereq HRD undergrad;

Instructor: Anderson,Orkideh M.

Description: This is a required class for all undergraduate students majoring in Human Resource Development. The class has a dual purpose: (1) to prepare you to find and complete the required HRD 5196 Internship experience, and (2) to orient you to the nature and details of a career in the field of Human Resource Development. The class should be taken in the term immediately preceding the internship, HRD 5196.

Style: 30% Lecture, 30% Small Group Activities, 30% Guest Speakers, 10% Web Based.

HRD 3201 Introduction to Training and Development

A-F only, 3 credit(s);

Instructor: Bialek,Tani Keenlyne

Description: Student may contact the instructor or department for information.

HRD 5101 Foundations of Human Resource Development

1 credit(s);

Instructor: Shim, Ji Hyun

Description: Student may contact the instructor or department for information.

HRD 5111 Facilitation and Meeting Skills

1 credit(s);

Instructor: Knapp,Randall Joseph

Description: Student may contact the instructor or department for information.

HRD 5196 Internship: Human Resource Development S-N only, 1-10 credit(s), max credits 10, 1 completion allowed; prereq 5001, 5201 or 5301;

Instructor: Peterson,Shari L

Description: Student may contact the instructor or department for information.

HRD 5196 Internship: Human Resource Development S-N only, 1-10 credit(s), max credits 10, 1 completion allowed; prereq 5001, 5201 or 5301;

Instructor: Anderson,Orkideh M.

Description: Student may contact the instructor or department for information.

HRD 5201 Training and Development of Human Resources

A-F only, 3 credit(s);

Instructor: Christesen PhD,David Allen

Description: Student may contact the instructor or department for information.

HRD 5201 Training and Development of Human Resources

A-F only, 3 credit(s);

Instructor: Bialek,Tani Keenlyne

Description: This graduate-level core course focuses on the advancement of students' competencies in the human resource training and development process phases of analysis, design, development, implementation, and evaluation. Particular emphasis is on a systems approach to training and development and the foundational tasks of identifying performance gaps, the analysis of required expertise, and instructional design research.

HRD 5301 Organization Development

A-F only, 3 credit(s);

Instructor: Christesen PhD,David Allen

Description: Student may contact the instructor or department for information.

HRD 5408 International Human Resource Development **3 credit(s);**

Instructor: Ardichvili,Alexandre A

Description: Student may contact the instructor or department for information.

HRD 5624 Sales Training

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: BIE 5624;

Instructor: Graham,Edmund Harville

Description: Student may contact the instructor or department for information.

HRD 5626 Customer Service Training

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: BIE 5626;

Instructor: Cooper,Diana C

Description: Student may contact the instructor or department for information.

HRD 5770 Special Topics in Human Resource Development

3 credit(s), max credits 12, 12 completions allowed;

Instructor: Peterson,Shari L

Description: HRD 5770 provides an overview of the business context within which HRD functions-- the general economic climate, marketing, management, and finance. The focus of this course is on the application of business principles in shaping HRD practices.

Human Resources and Industrial Relations

3-300 Carlson School of Management

HRIR 3021 Human Resource Management and Industrial Relations
3 credit(s); prereq ECON 1101, ECON 1102, PSY 1001; Credit will not be granted if credit has been received for: HRIR 8021;
Instructor: Benraouane,Sid A.
Description: Student may contact the instructor or department for information.

HRIR 3021 Human Resource Management and Industrial Relations
3 credit(s); prereq ECON 1101, ECON 1102, PSY 1001; Credit will not be granted if credit has been received for: HRIR 8021;
Instructor: Vellella,Robert Frank
Description: Student may contact the instructor or department for information.

HRIR 3051 Compensation: Theory and Practice
2 credit(s); prereq [[At least 60 sem cr or 75 qtr cr], 2.00 GPA] or dept consent;
Instructor: STAFF
Description: Introduction to compensation/reward programs in employing organizations. Theories of organizational/employee behavior used in design/implementation of pay programs. Design, implementation, and evaluation of job evaluation, salary surveys, skill-based pay, merit-based pay, and other compensation programs.

HRIR 3071 Union Organizing and Labor Relations
2 credit(s); prereq CSOM upper div undergrad major grad;
Instructor: Remington,John
Description: Student may contact the instructor or department for information.

HRIR 3072 Collective Bargaining and Dispute Resolution
2 credit(s); prereq CSOM upper div undergrad major grad;
Instructor: Remington,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 5000 Topics in Human Resources and Industrial Relations
2 credit(s), max credits 8, 4 completions allowed;
Instructor: Foster,David A.
Description: Student may contact the instructor or department for information.

HRIR 5021 Systems of Conflict and Dispute Resolution
4 credit(s); prereq Upper div undergrad or grad major; HRIR students contact instructor before registering;
Instructor: Azevedo,Ross E
Description: Introduction to theoretical and practical treatment of conflict settlement in interpersonal, work-related, community, business, and international settings. Lectures, discussions, observations of actual dispute resolution sessions, and lab exercises with students participating in dispute resolution simulations applied to real world conflicts.

HRIR 5022 Managing Diversity
2 credit(s); prereq CSOM upper div undergrad major grad;
Instructor: Leslie,Lisa
Description: Student may contact the instructor or department for information.

HRIR 5023 Employment and Labor Law for the HRIR Professional
A-F only, 2 credit(s); prereq [[At least 60 sem cr or 75 qtr cr], 2.00 GPA] or grad student or instr consent ;
Instructor: Remington,John
Description: Student may contact the instructor or department for information.

HRIR 5026 Innovative HR Leadership in the Context of Change and Uncertainty
2 credit(s); prereq [[At least 60 cr], 2.00 GPA] or grad student or dept consent ; grad majors must register A-F;
Instructor: Benraouane,Sid A.
Description: Student may contact the instructor or department for information.

HRIR 5062 Personnel Economics
2 credit(s); prereq [ECON 1101, at least 60 sem cr, 2.00 GPA] or HRIR grad major;
Instructor: Budd,John W.
Description: Student may contact the instructor or department for information.

HRIR 8001 Business Principles for the HRIR Professional
A-F only, 4 credit(s); prereq Grad HRIR major;
Instructor: Vellella,Robert Frank
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); prereq Grad HRIR major or dept consent ;
Instructor: Manchester,Colleen Flaherty
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); prereq Grad HRIR major or dept consent ;
Instructor: Kramer,Amit
Description: Student may contact the instructor or department for information.

HRIR 8023 International Human Resource Management
2 credit(s); prereq Grad HRIR major or dept consent ;
Instructor: Leslie,Lisa
Description: Student may contact the instructor or department for information.

HRIR 8031 Staffing, Training, and Development
4 credit(s); prereq Psy 1001, grad HRIR major or dept consent; grad majors must enroll A-F only;
Instructor: Glomb PhD,Theresa M
Description: Student may contact the instructor or department for information.

HRIR 8032 Staffing and Selection: Strategic and Operational Concerns
2 credit(s); prereq [8031, HRIR grad student] or dept consent; HRIR grad students must register A/F;
Instructor: Leslie,Lisa
Description: Student may contact the instructor or department for information.

HRIR 8034 Employee Development: Creating a Competitive Advantage
2 credit(s); prereq 8031 or instr consent, grad HRIR major or dept consent; grad majors must enroll A-F only;
Instructor: Tubre,Travis
Description: Student may contact the instructor or department for information.

HRIR 8051 Compensation and Benefits
4 credit(s); prereq Econ 1101, Econ 1102, Psy 1001 or instr consent, grad HRIR major or dept consent; grad majors

must enroll A-F only;

Instructor: Shaw,Jason D.

Description: Student may contact the instructor or department for information.

HRIR 8052 Compensation Theory and Applications

2 credit(s); prereq 8051 or instr consent, grad HRIR major or dept consent; grad majors must enroll A-F only;

Instructor: Azevedo,Ross E

Description: Student may contact the instructor or department for information.

HRIR 8053 Employer-Sponsored Employee Benefit Programs

2 credit(s); prereq 8011, 8051 or instr consent, grad HRIR major or dept consent; grad majors must enroll A-F only;

Instructor: Azevedo,Ross E

Description: Student may contact the instructor or department for information.

HRIR 8101 HRIR in Practice: Strategy, Execution, and Ethics

2 credit(s); prereq 8001, 8031, 8051, 8071, 8141, 8241, HRIR grad major;

Instructor: Shaw,Jason D.

Description: Student may contact the instructor or department for information.

HRIR 8840 Seminar: Organization Theory and Behavior

1-4 credit(s), max credits 8; prereq 8041 or instr consent, HRIR PhD student or dept consent; grad majors must enroll A-F only;

Instructor: Ben-Ner,Avner

Description: Student may contact the instructor or department for information.

Humanities

831 Heller Hall

HUM 1001 Humanities in the West I

4 credit(s); Credit will not be granted if credit has been received for: HUM 3001; Meets CLE req of Other Humanities Core;

Instructor: Norwood,James

Description: The enduring legacy of Ancient Greece and Rome in the Western tradition of art, literature, history, and ideas is the major focus of this course. We will trace such great stories as the Persian Wars, Periclean Athens, the development of the Roman Republic and Empire; great lives of individual Greeks and Romans; and artistic landmarks and ideas from antiquity. Readings will include selected works of Aeschylus, Sophocles, Euripides, Aristophanes, and Plato from Greece. From the period of Rome, we will study the works of Virgil, Ovid, Plutarch, and Marcus Aurelius. In examining art, literature, history, philosophy, and cultural values, we will seek connections among the various disciplines. Throughout the course we will examine how the tradition of Western humanities has shaped institutions, social roles, and personal values we still possess today. Video and slide presentations will accompany many of the classes.

IMPORTANT NOTES: (1) Grading will be based primarily on scholarly expository writing with high standards; (2) Class attendance is required and will be a component of grading in this course. This is intended as a lively learning experience with the class comprised of a wide range of student disciplines and majors.

Style: 85% Lecture, 10% Film/Video, 5% Discussion.

Grading: 25% mid exam, 25% final exam, 25% reports/papers, 20% quizzes, 5% attendance. Attendance will be worth at least 5% (with strict penalty structure for missing classes and an incentive for attending all of the classes)

Exam Format: take-home essay with high standards for grading (eight criteria to be covered in class, all of which must be fulfilled for satisfactory grades)

HUM 1004 Humanities in the West IV

4 credit(s); Credit will not be granted if credit has been received for: HUM 3004; Meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core;

Instructor: Norwood,James
Description: ATTENTION!!! FANS OF DAN BROWN'S ANGELS & DEMONS!!! This course will begin with the study of Dan Brown's popular novel Angels and Demons along with the artistic contributions of Bernini, the history of the papacy, and the artistic developments in the eternal city of Rome in the Baroque age. Next, we will explore the dazzling cultural achievements of the 17th and 18th centuries in the Western tradition of art, music, literature, history, science, and ideas spanning the epochs of the Baroque and Enlightenment. Readings will include selected works of Moliere, Descartes, Voltaire, Rousseau, Diderot, Beaumarchais, Sheridan, Goethe, and others. There will be special coverage of Daniel Defoe's novel Moll Flanders along with the study of the lives of great men and women of this period. Throughout the course we will explore how the tradition of Western humanities has shaped institutions, social roles, and personal values we still possess today. Slide and video presentations will accompany many of the classes. **IMPORTANT NOTES:** (1) Grading will be based primarily on scholarly expository writing with high standards; (2) Class attendance is required and will be a component of grading in this course. This is intended as a lively learning experience with the class comprised of a wide range of student disciplines and majors. **Style:** 85% Lecture, 10% Film/Video, 5% Discussion. **Grading:** 25% mid exam, 25% final exam, 25% reports/papers, 20% quizzes, 5% attendance. Attendance will be worth at least 5% (with strict penalty structure for missing classes and an incentive for attending all of the classes) **Exam Format:** take-home essay with high standards for grading (eight criteria to be covered in class, all of which must be fulfilled for satisfactory grades)

HUM 1006 Humanities in the West VI

4 credit(s); Credit will not be granted if credit has been received for: HUM 3006; Meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core;

Instructor: Kliger,George
Description: This course will explore the interaction of rival ideologies, historical events, and forms of culture and society as well as critical responses to them, in Europe in the twentieth century. Topics explored will include Marxism, the Bolshevik revolution and its aftermath; Freud and psychoanalysis; alienation and absurdity; the rise of Fascism and the Holocaust; Existentialism; Jungian psychology; the influence of Oriental spiritual traditions on the West. Major works of the times in political theory, psychology, the novel, drama, poetry, philosophy, personal narrative, and visual art, including film, which have reflected and profoundly influenced thinking, feeling and action will be examined in some detail. Works by representative figures will include those of Lenin, Koestler, Freud, Eliot, Kafka, Levi, Picasso, Camus, Ionesco, Jung, Fellini, Watts. The course has no prerequisite and should be of value to all undergraduate students. **Style:** 80% Lecture, 20% Discussion. **Grading:** 50% mid exam, 50% final exam. **Exam Format:** Take-home essays. Each exam is 50% of grade.

HUM 1431 Arts and Humanities

A-F only, 3 credit(s), max credits 6; prereq Repeated enrollment allowed only if topics are different Only Rochester-admitted students will be able to enroll in this course.; Meets CLE req of Other Humanities Core;

Instructor: Bamford,Rebecca
Description: Student may contact the instructor or department for information.

HUM 1431 Arts and Humanities

A-F only, 3 credit(s), max credits 6; prereq Repeated enrollment allowed only if topics are different Only Rochester-admitted students will be able to enroll in this course.; Meets CLE req of Other Humanities Core;

Instructor: Bamford,Rebecca
Description: Student may contact the instructor or department

for information.

HUM 1905 Topics: Freshman Seminar: Utopias and Anti-Utopias

3 credit(s); prereq Fr;

Instructor: Klinger, George

Description: This seminar will explore a variety of visions of an ideal society (utopia) and its opposite (anti-utopia) in the writings of philosophers, novelists, psychologists, and social and cultural critics through the ages, from Plato to Orwell, to an example of feminist theory. With regard to each vision, topics such as fundamental assumptions about human nature, ideals and values worthy of implementation and their compatibility, the nature of human institutions and their potentials for good and evil, will be examined. A central concern of the seminar will be to assess the degrees of actual or potential correspondence of these visions to the real world of individual and social existence.

Style: 90% Discussion, 10% Student Presentation.

Grading: 70% reports/papers, 15% in-class presentation, 15% class participation. 12 class meetings attendance required to pass course

HUM 3001 Humanities in the West I

4 credit(s); Credit will not be granted if credit has been received for: HUM 1001; Meets CLE req of Other Humanities Core;

Instructor: Norwood, James

Description: IMPORTANT NOTE: This course requires a substantial independent research project for 3000-level credit. If you do not yet have junior/senior standing and have not had extensive experience in research and expository writing in the humanities, you should register for Hum 1001. The enduring legacy of Ancient Greece and Rome in the Western tradition of art, literature, history, and ideas is the major focus of this course. We will trace such great stories as the Persian Wars, Periclean Athens, the development of the Roman Republic and Empire; great lives of individual Greeks and Romans; and artistic landmarks and ideas from antiquity. Readings will include selected works of Aeschylus, Sophocles, Euripides, Aristophanes, and Plato from Greece. From the period of Rome, we will study the works of Virgil, Ovid, Seneca, Plutarch, and Marcus Aurelius. In examining art, literature, history, philosophy, and cultural values, we will seek connections among the various disciplines. Throughout the course we will examine how the tradition of Western humanities has shaped institutions, social roles, and personal values we still possess today. Video and slide presentations will accompany many of the classes. IMPORTANT NOTES: (1) Grading will be based primarily on scholarly expository writing with high standards; (2) Class attendance is required and will be a component of grading in this course. This is intended as a lively learning experience with the class comprised of a wide range of student disciplines and majors.

Style: 85% Lecture, 10% Film/Video, 5% Discussion.

Grading: 20% mid exam, 20% final exam, 20% reports/papers, 20% special projects, 15% quizzes, 5% attendance. Attendance will be worth at least 5% (with strict penalty structure for missing classes and an incentive for attending all of the classes);

Exam Format: take-home essay with high standards for grading (eight criteria to be covered in class, all of which must be fulfilled for satisfactory grades)

HUM 3004 Humanities in the West IV

4 credit(s); Credit will not be granted if credit has been received for: HUM 1004; Meets CLE req of International Perspective Theme; meets CLE req of Other Humanities Core;

Instructor: Norwood, James

Description: IMPORTANT NOTE: This course requires a substantial independent research project for 3000-level credit. If you do not yet have junior/senior standing and have not had extensive experience in research and expository writing in the humanities, you should register for Hum 1004. This course will begin with the study of Dan Brown's popular novel *Angels and Demons* along with the artistic contributions of Bernini, the history of the papacy, and the artistic developments in the eternal city of Rome in the Baroque age. Next, we will explore

the dazzling cultural achievements of the 17th and 18th centuries in the Western tradition of art, music, literature, history, science, and ideas spanning the epochs of the Baroque and Enlightenment. Readings will include selected works of Moliere, Descartes, Voltaire, Rousseau, Diderot, Beaumarchais, Sheridan, Goethe, and others. There will be special coverage of Daniel Defoe's novel *Moll Flanders* along with the study of the lives of great men and women of this period. Throughout the course we will explore how the tradition of Western humanities has shaped institutions, social roles, and personal values we still possess today. Slide and video presentations will accompany many of the classes. IMPORTANT NOTES: (1) Grading will be based primarily on scholarly expository writing with high standards; (2) Class attendance is required and will be a component of grading in this course. This is intended as a lively learning experience with the class comprised of a wide range of student disciplines and majors.

Style: 85% Lecture, 10% Film/Video, 5% Discussion.

Grading: 20% mid exam, 20% final exam, 20% reports/papers, 20% special projects, 15% quizzes, 5% attendance. Attendance will be worth at least 5% (with strict penalty structure for missing classes and an incentive for attending all of the classes).

Exam Format: take-home essay with high standards for grading (eight criteria to be covered in class, all of which must be fulfilled for satisfactory grades)

HUM 3006 Humanities in the West VI

4 credit(s); Credit will not be granted if credit has been received for: HUM 1006; Meets CLE req of International Perspective Theme; meets CLE req of Other Humanities Core;

Instructor: Klinger, George

Description: This course will explore the interaction of rival ideologies, historical events, and forms of culture and society as well as critical responses to them, in Europe in the twentieth century. Topics explored will include Marxism, the Bolshevik revolution and its aftermath; Freud and psychoanalysis; alienation and absurdity; the rise of Fascism and the Holocaust; Existentialism; Jungian psychology; the influence of Oriental spiritual traditions on the West. Major works of the times in political theory, psychology, the novel, drama, poetry, philosophy, personal narrative, and visual art, including film, which have reflected and profoundly influenced thinking, feeling and action will be examined in some detail. Works by representative figures will include those of Lenin, Koestler, Freud, Eliot, Kafka, Levi, Picasso, Camus, Ionesco, Jung, Fellini, Watts. The course has no prerequisite and should be of value to all undergraduate students.

Style: 80% Lecture, 20% Discussion.

Exam Format: Take-home essays. Each exam is 16% of grade. Each paper is 18% of grade.

HUM 3281 European Intellectual History: the 18th and 19th Centuries

3 credit(s); Credit will not be granted if credit has been received for: HIST 3281;

Instructor: Shank, JB

Description: This course is part I of a two-semester introduction to modern European intellectual history. It will cover the period that stretches from the beginnings of modern European thought in Antiquity up to the eighteenth century. The course will study thinkers such as Plato, Aristotle, Paul, Augustine, Aquinas, Machiavelli, Galileo, Descartes, Bacon, Spinoza, Leibniz, and Newton. Topics will range from the relationship between myth and philosophy in Antiquity, to the role of Christianity and Islam as new philosophical-religious programs, and the connection between the global expansion of Europe after 1492 and the rise of modern science and philosophy. Readings will be drawn from the original philosophical texts of the historical figures we will study, and the class will combine lectures with intensive discussion. Students will be asked to write short weekly papers analyzing the texts they are reading, and longer critical essays as their primary written assignment.

Style: 60% Lecture, 40% Discussion.

Grading: 60% reports/papers, 25% written homework, 15% class participation.

HUM 3910 Topics in the Humanities: Assassination of JFK & the Culture of the Sixties**4 credit(s);****Instructor:** Norwood,James

Description: This course will examine the assassination of President John F. Kennedy in a careful study of the events in Dallas on November 22-24, 1963. We will consider the governmental findings of the Warren Commission and the House Select Committee on Assassinations; the discoveries of independent researchers; and the uses of modern forensic science as applied to a study of the assassination. Our goal will be to assess what constitutes reliable versus questionable evidence in this case in such essential matters as the identity and activities of alleged assassin Lee Harvey Oswald. Also, we will be viewing the Oliver Stone film JFK and numerous documentaries addressing the assassination. The course will also examine the history of CIA. Additionally, we will study the lives of both John F. Kennedy and his brother Robert F. Kennedy and their legacies of public service. Another component of the course will be the cultural developments in the 1960s, including the phenomenon of the Hippies and the literature of that turbulent decade. Our country changed on November 22, 1963 in what is often called the crime of the century. This course will examine precisely what happened on that date and the aftermath that is still felt today.

Style: 50% Lecture, 25% Film/Video, 25% Discussion.

Grading: 25% mid exam, 25% final exam, 25% reports/papers, 20% quizzes, 5% attendance. Attendance will be worth at least 5% (with strict penalty structure for missing classes and an incentive for attending all of the classes)

Exam Format: take--home essay**HUM 3970 Directed Studies****1-4 credit(s), max credits 4, 1 completion allowed; prereq instr consent;****Instructor:** STAFF

Description: Student may contact instructor or department for information.

HUM 4970 Directed Studies**1-4 credit(s), max credits 4, 1 completion allowed; prereq Jr or sr or grad, instr consent;****Instructor:** STAFF

Description: Student may contact instructor or department for information.

Industrial Engineering

125 Mechanical Engineering

IE 4521 Statistics, Quality, and Reliability**4 credit(s); prereq Upper div or grad student or CNR;****Instructor:** Arora,Sant R

Description: Student may contact the instructor or department for information.

IE 5111 Systems Engineering I**A-F only, 2 credit(s); prereq IT upper div or grad student;****Instructor:** Monson,Robert James**Description:****IE 5112 Introduction to Operations Research**

A-F only, 3 credit(s); prereq [Math 2243 or Math 2373 or equiv], [one semester of probability or statistics], [IT upper div or grad student];

Instructor: Rangarajan,Bharath

Description: Student may contact the instructor or department for information.

IE 5511 Human Factors and Work Analysis**A-F only, 4 credit(s); prereq Upper div IT or grad student;****Credit will not be granted if credit has been received for:****HUMF 5211;****Instructor:** Hayes,Caroline Clarke

Description: Student may contact the instructor or department for information.

IE 5513 Engineering Safety**A-F only, 4 credit(s); prereq Upper div IT or grad student;****Instructor:** Chaplin,Jonathan

Description: Occupational, health, and product safety. Standards, laws, and regulations. Hazards and their engineering control, including general principles, tools and machines, mechanics and structures, electrical safety, materials handling, fire safety, and chemicals. Human behavior and safety, procedures and training, warnings and instructions.

Style: 100% Lecture.

Grading: 22% mid exam, 31% final exam, 5% reports/papers, 10% quizzes, 22% written homework, 10% class participation.

IE 5531 Engineering Optimization I**4 credit(s); prereq Upper div or grad student or CNR;****Instructor:** Rangarajan,Bharath

Description: Student may contact the instructor or department for information.

IE 5541 Project Management**4 credit(s); prereq Upper div or grad student;****Instructor:** Schaller,Robin E

Description: Student may contact the instructor or department for information.

IE 5541 Project Management**4 credit(s); prereq Upper div or grad student;****Instructor:** Fiedler,Corrinne (Corrie)

Description: Student may contact the instructor or department for information.

IE 5545 Decision Analysis**4 credit(s); prereq 4521 or equiv;****Instructor:** Gupta,Diwakar

Description: This course surveys normative theories of decision making, with a particular emphasis on structuring of hard decision problems arising in a variety of engineering, business, and public policy contexts. Topics discussed include decision trees, expected utility theory, screening prospects by dominance, assessment of subjective probability, multiple attribute utility, analytic hierarchy process, value of information, multistage decision problems, benchmarking with data envelopment analysis, and basics of game theory. The course is structured around the following themes: 1. What makes decision problems hard? Structuring of decision problems via decision trees. 2. Shortcomings of some commonly used decision criterion. 3. Value functions and utility functions. Expected utility maximization principle. 4. Risk attitudes, assessing utility functions and subjective probabilities. 5. Screening prospects by dominance. Portfolio selection. 6. Multiple attribute utility theory. 7. Analytical Hierarchy Process: Introduction, strengths and shortcomings. 8. Data Envelopment Analysis. Applications of DEA. 9. Introduction to game theory: Zero sum games. Cooperative and competitive games. Nash equilibrium. Stackelberg equilibrium. 10. Examples and cases from public policy and business sectors of economy. This course will be web enhanced but the URL is not yet available.

Style: 50% Lecture, 20% Discussion. Discussion of assigned 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.**IE 8532 Stochastic Processes and Queuing Systems****4 credit(s); prereq 4521 or equiv;****Instructor:** Cooper,William L

Description: Student may contact the instructor or department for information.

IE 8552 Advanced Topics in Production, Inventory, and Distribution Systems: Stochastic Inventory Theory & Supply Chain Mgmt

4 credit(s), max credits 8; prereq 5551;

Instructor: Benjaafar,Saif

Description: Student may contact the instructor or department for information.

IE 8773 Graduate Seminar

S-N only, 1 credit(s);

Instructor: Gupta,Diwakar

Description: Student may contact the instructor or department for information.

IE 8774 Graduate Seminar

S-N only, 1 credit(s); prereq 8773;

Instructor: Gupta,Diwakar

Description: Student may contact the instructor or department for information.

IE 8794 Industrial Engineering Research

1-6 credit(s), max credits 10, 10 completions allowed; prereq instr consent ;

Instructor: Benjaafar,Saif

Description: Student may contact the instructor or department for information.

IE 8951 Plan B Course

S-N only, 1 credit(s);

Instructor: Kortshagen,Uwe Richard

Description: Student may contact the instructor or department for information.

Information Networking

20 Classroom Office Building

INET 3101 C Programming for the Java Programmer

A-F only, 1 credit(s); prereq Programming experience or completed coursework in [Java or C+ or similar programming language];

Instructor: Langanki,Mark D

Description: The C programming language has a long history. C remains one of the most powerful languages available today and is at the foundation of many operating systems. This course covers past and present use of the C language, C syntax, libraries, memory management, File I/O (file and socket), modularity, ways other languages use C to interact with an operating system, debugging, and guidelines for how and where to use C instead of other languages. The course also provides an overall approach to software development that uses an adaptive model for well-designed and well-written code in any language-code that is elegant, powerful, and easy to understand. This model assists developers in logically breaking programs into "atomic" parts that can be built upon, modularized, and eventually easily tested when brought together in a program. The concept of "programming styles" will also be introduced, helping students decide which style will work best for them. Upon course completion, students will be able to - Code, compile and link C programs - Use and create C libraries - Debug C applications - Understand appropriate application of the C language. Group assignments will use real-world examples of appropriate use of C. Hands-on exercises will start with writing some simple UNIX/Linux shell commands in C, and then move into larger programs. Linux-based Ubuntu (<http://www.ubuntu.com>) or Knoppix (<http://www.knoppix.org>) are the free downloadable operating systems of choice for the class, and are bootable from CD/DVD.

INET 4011 Network Administration

A-F only, 4 credit(s); prereq CSci 4211 or instr consent ;

Instructor: STAFF

Description: This course combines theory (lecture and expert guest speakers) and application (labs). Topics include network architecture, switching, routing, algorithms, protocols, infrastructure hardware, cable plant, security and network management.

INET 4041 Emerging Network Technologies and Applications

A-F only, 3 credit(s); prereq [CSCI 4211 or equiv professional experience or instr consent], 45 cr;

Instructor: STAFF

Description: Underlying theory. Driving needs (technological, business). Developing technology. Competing technologies. Lectures by guest expert speakers, case studies, labs.

INET 4061 Introduction to Data Warehousing

A-F only, 3 credit(s); prereq [4707 or CSCI 4707 or instr consent], laptop;

Instructor: STAFF

Description: Business case studies. Business analytics. Data mining models. Dimensional design. OLAP analysis. Data warehouse architectures and processes. Administration. Physical design considerations. Project assignment. Hands-on lab using SQL Server 2005.

INET 4153 Policy and Regulation: Effects on Global IT Infrastructure

A-F only, 3 credit(s); prereq 45 sem cr, experience with Windows/Internet;

Instructor: Hedblom,Milda Kusler

Description: Regulation and policy making in telecommunications. Evolution of the industry. Industry structure. Models for policy. Roles and relationships of U.S. standards organizations, the telecommunications industry, and governmental units. Evolution of international telecommunications organizations and regulatory systems. Analysis of current issues.

INET 4193 Directed Study

A-F only, 1-4 credit(s), max credits 12, 4 completions allowed; prereq ITI student, dept consent ;

Instructor: STAFF

Description: Independent project, topic arranged with and supervised by ITI faculty.

Information and Decision Sciences

3-353 CarlSMgmt

IDSC 3001 Information Systems for Business Processes and Management

A-F only, 3 credit(s); prereq BA 1001 or experience using Windows/Internet;

Instructor: Olson,Timothy Harold

Description: Student may contact the instructor or department for information.

IDSC 3001 Information Systems for Business Processes and Management

A-F only, 3 credit(s); prereq BA 1001 or experience using Windows/Internet;

Instructor: Gupta,Alok

Description: Student may contact the instructor or department for information.

IDSC 3001 Information Systems for Business Processes and Management

A-F only, 3 credit(s); prereq BA 1001 or experience using Windows/Internet;

Instructor: Ren,Yuqing

Description: Student may contact the instructor or department for information.

IDSC 3001H Honors: Information Systems for Business Processes and Management

A-F only, 3 credit(s); prereq [BA 1001 or experience using Windows/Internet], honors;

Instructor: Ren,Yuqing

Description: Student may contact the instructor or department for information.

IDSC 3101 Introduction to Programming

A-F only, 2 credit(s); prereq credit will not be granted if credit already received for: IDSc 3201;

Instructor: Reily, Ken

Description: This course is designed for students with no programming experience who wish to gain a basic understanding of computer programming tools and techniques. The course welcomes students from all majors who wish to learn basic computer programming. This is a required course for MIS majors. This course will introduce students to the basics of computer programming used by companies all over the world to build today's most sophisticated information systems. The course will cover a variety of programming basics including variables, control structures such as if statements and loops, data structures such as arrays and collections, elements of programming style, and basic graphical user interfaces (GUIs). Students will learn these concepts through step-by-step tutorials, in-class demonstrations and exercises (the course is taught in an interactive classroom lab), and several take-home programming assignments. Student performance will be evaluated using a combination of objective quizzes and exams, completion of assigned exercises, expert evaluation of the students' take-home programming assignments, and in-class programming exams. This course uses the latest tools and techniques for building applications, and requires no prior programming experience.

Style: 20% Lecture, 10% Discussion, 50% Laboratory, 20% Demonstration.

Grading: 20% mid exam, 30% final exam, 50% written homework. Written homework consists of take-home programming assignments.

Exam Format: Objective (multiple choice/true-false) and/or computer programming

Description: Student may contact the instructor or department for information.

IDSC 3104 Information Technology Infrastructure

A-F only, 2 credit(s); prereq 3001 credit will not be granted if credit already received for: IDSc 4203;

Instructor: Naumann, J David

Description: Student may contact the instructor or department for information.

IDSC 3202 Analysis and Modeling for Business Systems Development

A-F only, 4 credit(s); prereq 3001;
Instructor: Fiedler, Corrinne (Corrie)

Description: Improving business processes has become a key business strategy: always driving toward faster, cheaper, more reliable processes. A key role in these improvement efforts is that of the Business Analyst: the person who bridges the gap of understanding between the business needs and the technologists (designers and programmers) - - IDSc 3202 emphasizes the science and the art of converting ambiguous and contradictory business concepts into business process models. These models must, of course, be correct, but also precise enough to be implemented. - - Over the semester, we study critical business analyst skills: evaluating current processes, recommending strategic solutions, working with business stakeholders to clarify & document requirements, developing process and data models, and planning for the human side of change. - - The class covers critical skills for those with career goals in any process-oriented role in today's enterprises, including business analyst, supply chain manager, operations manager, finance manager, MIS manager, project manager. - - The course includes hands-on experience with process modeling (Microsoft Visio), project management (Microsoft Project), and data base (Microsoft Access) tools.

Style: 45% Lecture, 30% Discussion, 15% Small Group Activities, 5% Student Presentation, 5% Guest Speakers. Class time set aside weekly for team project work.

Grading: 20% mid exam, 10% final exam, 25% special projects, 30% written homework, 15% class participation.

IDSC 3102 Intermediate Programming

A-F only, 2 credit(s); prereq credit will not be granted if credit already received for: IDSc 3201 3101 3101 or [equivalent experience, instr consent];

Instructor: Reily, Ken

Description: This course is designed for students who have taken IDSC 3101: Introduction to Programming or have equivalent programming experience and wish to supplement their basic programming knowledge. The course welcomes students from all majors who wish to learn basic computer programming. This is a required course for MIS majors. This course will supplement students' basic knowledge of programming concepts by introducing intermediate programming concepts that allow the student to transition from developing simple applications to developing larger and more full-featured applications. The course will cover topics such as object-oriented programming techniques, database applications, and modern web applications. In addition, the course will refine students' basic techniques by covering intermediate programming style, program performance, and basic user interface design principles. Students will learn these concepts through step-by-step tutorials, in-class demonstrations and exercises (the course is taught in an interactive classroom lab), and several take-home programming assignments. Student performance will be evaluated using a combination of objective quizzes and exams, completion of assigned exercises, and expert evaluation of the students' take-home programming assignments. This course uses the latest tools and techniques for building applications, and assumes that students have introductory programming knowledge from IDSC 3101 or equivalent experience.

Style: 20% Lecture, 10% Discussion, 50% Laboratory, 20% Demonstration.

Grading: 20% mid exam, 30% final exam, 50% written homework. Written homework consists of take-home computer programming assignments.

Exam Format: Objective (multiple choice/true-false) and/or computer programming

IDSC 4204W Managing Information Services

A-F only, 4 credit(s); prereq 3202; Meets CLE req of Writing Intensive;

Instructor: Adams, Carl Robert

Description: Student may contact the instructor or department for information.

IDSC 4421 Financial Information Systems and Technologies

A-F only, 2 credit(s); prereq 3001;

Instructor: Olson, Timothy Harold

Description: Student may contact the instructor or department for information.

IDSC 4441 Electronic Commerce

A-F only, 2 credit(s); prereq 3001;

Instructor: Meyer, Georg

Description: Student may contact the instructor or department for information.

IDSC 6040 Information Technology Management

A-F only, 2 credit(s); prereq MBA core menu course;

Instructor: Subramani, Mani R

Description: Student may contact the instructor or department for information.

IDSC 6040 Information Technology Management

A-F only, 2 credit(s); prereq MBA core menu course;

Instructor: Nemani, Rao R

Description: Student may contact the instructor or department for information.

IDSC 6040 Information Technology Management

A-F only, 2 credit(s); prereq MBA core menu course;

Instructor: Kampe, Doug

Description: Student may contact the instructor or department for information.

IDSC 3103 Data Modeling and Databases

A-F only, 2 credit(s); prereq 3001 credit will not be granted if credit already received for: IDSc 4203;

Instructor: Zhang, Jingjing

for information.

IDSC 6040 Information Technology Management

A-F only, 2 credit(s); prereq MBA core menu course;

Instructor: Ray, Gautam

Description: Student may contact the instructor or department for information.

IDSC 6050 Information Technologies and Solutions

A-F only, 2 credit(s);

Instructor: Adomavicius, Gediminas

Description: Student may contact the instructor or department for information.

IDSC 6401 Decision Technologies

A-F only, 2 credit(s); prereq MBA student;

Instructor: Curley, Shawn P

Description: Student may contact the instructor or department for information.

IDSC 6471 Knowledge Management

A-F only, 2 credit(s); prereq MBA student;

Instructor: Subramani, Mani R

Description: Student may contact the instructor or department for information.

IDSC 6481 Managerial Decision Making

A-F only, 2 credit(s); prereq MBA student;

Instructor: Curley, Shawn P

Description: This is not an IS course. The course is based on research in psychology and research in organizational theory to understand how decisions are made and when decisions fail. From this understanding, practical approaches and techniques for improving decision making are identified and, as appropriate, demonstrated. Although we use theory and achieve a working understanding of theory for our purposes, this is not a course in psychology or in organizational theory. It is a course in understanding the dynamics of decision making, towards the practical goal of improving decision making. Questions that frame the course include: - How are decisions made? What are the elements of a decision? Psychological and organizational theories form the bases of the frameworks employed. - How do decisions fail? What are some of the barriers to good decision making, or characteristics of how we make decisions, that can lead us astray? - Based on the above, what techniques have or can be identified for improving decision making in our organizations? Developing and evaluating such techniques are the ultimate goals of the course.

Style: 30% Lecture, 35% Discussion, 35% Small Group Activities.

Grading: 90% reports/papers, 10% class participation.

IDSC 6490 Advanced Topics in MIS: Business Process Excellence

A-F only, 2 credit(s), max credits 10, 5 completions allowed; prereq MBA student;

Instructor: Fiedler, Corrinne (Corrie)

Description: You know your firm's processes need transformation - now what? If you aspire to be the "go-to manager" when it is time to optimize business-critical processes, this course will give you the insights and skills to align business processes to corporate strategy, while ensuring the newly designed processes are both effective and efficient. Learning objectives: Upon completion students will be able to 1. Assess a firm's process maturity, and recognize the benefits available to a process-oriented organization 2. Describe the core issues and challenges underlying business process design and implementation 3. Align strategy, business processes, and information technology using best-practice concepts and frameworks. 4. Implement process design with appropriate attention to change management and information technology: the people, process, technology approach. 5. Model and design business processes using contemporary notation and tools A few notes of interest: 1.. The class material focuses on management-approaches (rather than technical approaches) and is equally valuable for those with career aspirations in

business management, technical management, or business consulting. 2. We will build on some of the current process frameworks (ITIL, SCOR, APQC) 3. I take a practical, best-practices approach (rather than a purely theoretical approach) 4. The course content may change moderately, as student interests become clear during the semester. 5. This class is a great companion course to OMS 6041 (Project Management). IDSc 6490 covers the design of new processes, and OMS 6041 covers the subsequent project management required to put the process changes into action.

Style: 25% Lecture, 25% Discussion, 20% Small Group Activities, 20% Student Presentation, 10% Guest Speakers.

Grading: Approximately: 25%: participation (includes attendance and weekly '5 minute writing' exercises) 40%: team process redesign project and presentation (in lieu of final exam) 35%: homework (case write ups and other problems)

IDSC 8711 Cognitive Science

4 credit(s); prereq Business admin PhD student or instr consent;

Instructor: Johnson, Paul E

Description: We increasingly perform tasks using knowledge that we individually do not possess. Decisions and the solution to problems are as likely to arise from the interaction among people (and among people and artifacts), as they are to result from the capacity of a single individual. The use of various physical, social and intellectual resources to perform tasks has given us many benefits. It has also given us the ability to act without reflection (the philosopher A. N. Whitehead observed that civilization advances by extending the number of things we can do without thinking about them). An interesting consequence of reliance on the knowledge and thinking of others is that our mental models often become divorced from reality. When this happens individuals as well as organizations sometimes act counter to their best interests. Such actions reflect characteristics of the human mind and how it is (and is not) adapted to the demands of modern twentieth century life and work. In this course we examine research and theory on the nature of the mind and how it functions in the modern world. Drawing on work in psychology, anthropology, philosophy and computer science we develop a framework for understanding the behavior of cognitive agents in various settings of work and daily life. We will be particularly interested in the role of consciousness (including intentionality and narrative thinking), the nature of representation (including the idea of self organizing systems) and the limits of cognitive capacity (e.g., bounded rationality) as explanations for behavior. Data from the study of research problems in the field settings (health care, manufacturing, financial markets) as well as the laboratory will be critiqued and evaluated. Alternative methodologies for investigating behavior will be explored. Upon completion of the course students should be able to provide an informed critique of research as well as undertake the formulation of a research problem of modest scope using cognitive science theory and methodology. The course format will be lecture and discussion based on assigned readings from the research literature. Course requirements include a weekly synopsis of one assigned reading and a take-home final exam.

Infrastructure Systems Engineering 510 WBOB

ISE 5101 Project Management

A-F only, 3 credit(s); prereq ISE student;

Instructor: Smith, Karl Aldrich

Description: Student may contact the instructor or department for information.

ISE 5113 Computer Applications in Infrastructure Systems Engineering

A-F only, 2 credit(s); prereq ISE grad student;

Instructor: Voller, Vaughan Richard

Description: Student may contact the instructor or department for information.

ISE 5500 Public Interactions

A-F only, 1 credit(s), max credits 2; prereq ISE student;
Instructor: Spack,Raymond Joseph
Description: Student may contact the instructor or department for information.

ISE 8105 Capstone Project

A-F only, 1-2 credit(s), max credits 3; prereq ISE student;
Instructor: Voller,Vaughan Richard
Description: Student may contact the instructor or department for information.

Innovation Studies

20 Classroom Office Building

IS 5001 Introduction to Innovation Studies

A-F only, 1-4 credit(s), max credits 4, 3 completions allowed; prereq dept consent ;
Instructor: Tomsyck,John Peter
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. Presents key Innovation Studies models and demonstrates how these models support individualized learning and leadership processes while being broadly based dynamic and collaborative. The models contribute to innovative self and team leadership strategies, define and apply just-in-time knowledge, and support lifelong self-improvement skills. Internet Delivered, online term based course.

IS 5002 Final Project for Innovation Studies

A-F only, 1-4 credit(s), max credits 4, 4 completions allowed; prereq Completion of IS requirements, dept consent ;
Instructor: Harkins,Arthur M
Description: Student may contact the instructor or department for information.

IS 5100 Innovation Studies Seminar: Anti-Intellectualism and Constructing New Futures

A-F only, 2 credit(s), max credits 24, 24 completions allowed; prereq dept consent ;
Instructor: Harkins,Arthur 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. Presents key Innovation Studies models and demonstrates how these models support individualized learning and leadership processes while being broadly based dynamic and collaborative. The models contribute to innovative self and team leadership strategies, define and apply just-in-time knowledge, and support lifelong self-improvement skills. Internet Delivered, online term based course.

Institute of Technology

106 Lind Hall

IOFT 1 Fundamentals of Engineering Review (E.I.T. Refresher)

S-N only, 0 credit(s); prereq Bachelor's degree in engineering;
Instructor: Nordell,Daniel Edwin
Description: This course is a review of engineering fundamentals required to pass the National Council of Engineering Examiners Fundamentals of Engineering examination. It is designed to aid in preparation for the FE examination by presenting an organized review of material ordinarily contained in a college engineering curriculum. Primary emphasis will be on problem solving with orientation as close as possible to the type of questions contained in the exam. Prerequisite: Engineering or equivalent degree or candidate for degree

Style: 75% Lecture, 25% Discussion.

Grading: 100% successful completion of the FE exam

Exam Format: National Fundamentals of Engineering exam. Multiple choice.

IOFT 1101 Environmental Issues and Solutions

4 credit(s); prereq High school chemistry or equiv, one yr high school algebra; Meets CLE req of Environment Theme; meets CLE req of Physical Science/Lab Core;
Instructor: Arnold,Bill

Description: This course will address the behavior of natural systems, man's 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. Students will participate in hands-on water quality labs, field trips and small discussion groups. CLE Physical Science with Lab Core and Environment Theme 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. Natural physical and chemical phenomena that drive environmental systems and their associated biological components are examined (for example, what chemical and energy inputs are required in environmental systems, and how do specific conditions dictate the biological makeup of an ecosystem). The impact of human alterations on these physical and chemical phenomena (via pollution and other changes) are also examined. The topics are discussed on a scientific basis, but how human values and policies affect our decisions (and tradeoffs) are also considered. 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. Major environmental issues and the underlying scientific principles, the relationship (and impact) of humans with the environment, technologies that cause and solve environmental issues, reliable information sources, are discussed. Throughout the class, the role that societal values and ethics play in selecting and implementing solutions to environmental problems are interwoven into the material. Thus, an emphasis is 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 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 IOFT 1101 are designed to provide such knowledge to make students engaged public citizens.

Style: 40% Lecture, 40% Laboratory, 5% Field Trips, 5% Guest Speakers.

Grading: 40% reports/papers, 50% quizzes, 10% in-class presentation. Reports are laboratory reports

IOFT 1311 Engineering Basics

A-F only, 2 credit(s);

Instructor: Imbertson,Paul Jay

Description: Student may contact the instructor or department for information.

IOFT 1312 Exploring Careers in Science and Engineering

2 credit(s);

Instructor: Hinz,Katy Irene

Description: This course gives you the tools you need to make informed decisions about your future career. The two-credit course is offered fall and spring semesters with grading options A-F and S/N. Course enrollment is limited to 30 participants. In this class, you will gain self-knowledge through an assortment of in-class and out-of-class exercises. You will use tools to access your interests, personality, values, and strengths. You will also research careers and majors using sources as the CCSE Major Binders, Occupational Outlook Handbook, salary surveys,

informational interviews, and others. You will gain valuable information directly from professionals in your area of interest. You will also create a resume and cover letter, attend a career fair, learn techniques for successful interviewing, and identify opportunities for experiential education (internships, co-ops, and research opportunities). This course is designed primarily for freshman and sophomores, though all students are welcome to register. For more information visit 50 Lind Hall, call 612-624-4090, e-mail ccse@umn.edu.

Style: 30% Lecture, 10% Discussion, 10% Student Presentation, 10% Field Trips, 40% Guest Speakers.

Grading: 23% reports/papers, 20% special projects, 16% journal, 19% reflection paper, 12% in-class presentation, 10% class participation.

Insurance and Risk Management

3-122 Carlson School of Management

INS 4100 Corporate Risk Management

2 credit(s); prereq credit will not be granted if credit received for: 5100;

Instructor: STAFF

Description: Corporate Risk Management is the process of assessing, controlling, financing and monitoring risks to increase value for all stakeholders. Business practices and theory are applied to treat human resource risks, financial risks, property, liability, and workers compensation risks, with risk control and risk financing tools, including insurance. Students learn to serve as consultants applying the risk management process to a live company. Practicing risk managers address the class and assist students in the consulting process.

Style: 70% Lecture, 15% Discussion, 15% Student Presentation.

Grading: 50% quizzes, 30% in-class presentation, 20% class participation. LMS/VISTA participation

Exam Format: multiple choice and short essays

INS 4101 Employee Benefits

2 credit(s); prereq 4100 or 5100 or HRIR 3021 or instr consent credit will not be granted if credit received for: 5101;

Instructor: STAFF

Description: Design/administration of employee benefit plans as a component of total compensation: health insurance, disability plans, life insurance, salary reduction/deferred compensation programs/retirement plans--from social insurance to executive benefits. Alternative funding methods, including, self-insurance. Ethical issues, legal liability, compliance with regulations. Students learn to serve as consultants applying employee benefits to a live company. Practicing professionals and faculty address the class and assist students.

Style: 70% Lecture, 15% Discussion, 15% Student Presentation.

Grading: 15% reports/papers, 50% quizzes, 20% in-class presentation, 15% class participation.

Exam Format: multiple choice and essay

INS 4201 Personal Financial Management

2 credit(s); prereq credit will not be granted if credit received for: 5201;

Instructor: STAFF

Description: Guest industry practitioners present the concepts and principles of personal financial planning, and you develop your own plan using computer software. Your plan and practitioners cover steps in the planning process, financial statements, expenditure and credit/debt management, time value of money, insurance (disability, health, liability, long-term care), investing and portfolio allocation, tax reduction, retirement plans and estate planning. Standards of professional conduct and regulation of financial planners are reviewed.

Style: 70% Lecture, 30% Discussion.

Grading: 60% reports/papers, 25% quizzes, 15% class participation.

Exam Format: multiple choice and essay

Inter-College Program

20 Classroom Office Building

ICP 3000 Career Skills in the Professional Environment

2 credit(s); prereq 60 cr;

Instructor: Bonderson,Lori

Description: This course is designed to introduce you to the nuts and bolts of job search strategies, including resume writing, interviewing, working, and the use of technology and the Internet in job seeking.

Grading: 90% written homework. 10% Online participation

ICP 3001W Introduction to Multidisciplinary Studies

A-F only, 3 credit(s); prereq Admitted to ICP Multidisciplinary Studies; Meets CLE req of Writing Intensive;

Instructor: Borowicz,Josh

Description: Student may contact the instructor or department for information.

ICP 3001W Introduction to Multidisciplinary Studies

A-F only, 3 credit(s); prereq Admitted to ICP Multidisciplinary Studies; Meets CLE req of Writing Intensive;

Instructor: Redoutey,Karolyn M

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 which includes a statement of purpose, a reflective essay on education, and a rationale for courses chosen for the degree. Readings will examine purpose and transition in life which will assist in writing the content of the proposal. We will also read from an anthology that encourages students to think about the five areas of study possible in the Multidisciplinary Studies degree.

ICP 3093 Directed Study

1-15 credit(s), max credits 15, 1 completion allowed; prereq instr consent ;

Instructor: STAFF

Description:

Interdepartmental Study

135 Johnston Hall

ID 1201 Major and Career Exploration

2 credit(s); prereq Fr or soph;

Instructor: Bolte,Mia M

Description: Are you undecided about which major to choose? Or are you wondering what careers you can pursue with your major? In this class you'll learn about the foundations of career planning in relation to your interests. The course covers two main subjects: * Self-Assessment: Learn more about your skills, values, interests, and personality. * Exploring Options: Learn about majors available at the U, and how you can use your major to find a career you'll enjoy. We'll also introduce you to many of the resources available on campus, and help you explore the ways internships, community service, work experience, and travel can impact your future success. A \$30 fee will be charged for career assessment inventories. Grading/Workload: Grades are determined based on student participation in class, 3-4 papers/projects, and other reaction papers as determined by the instructor. There are no exams in this course. An average of 25 pages of reading will be required each week.

ID 1201 Major and Career Exploration

2 credit(s); prereq Fr or soph;

Instructor: LeFay,Lisa

Description: Are you undecided about which major to choose?

Or are you wondering what careers you can pursue with your major? In this class you'll learn about the foundations of career planning in relation to your interests. The course covers two main subjects: * Self-Assessment: Learn more about your skills, values, interests, and personality. * Exploring Options: Learn about majors available at the U, and how you can use your major to find a career you'll enjoy. We'll also introduce you to many of the resources available on campus, and help you explore the ways internships, community service, work experience, and travel can impact your future success. A \$30 fee will be charged for career assessment inventories. Grading/Workload: Grades are determined based on student participation in class, 3-4 papers/projects, and other reaction papers as determined by the instructor. There are no exams in this course. An average of 25 pages of reading will be required each week.

ID 1201 Major and Career Exploration
2 credit(s); prereq Fr or soph;

Instructor: Timmins,Paul

Description: Are you undecided about which major to choose? Or are you wondering what careers you can pursue with your major? In this class you'll learn about the foundations of career planning in relation to your interests. The course covers two main subjects: * Self-Assessment: Learn more about your skills, values, interests, and personality. * Exploring Options: Learn about majors available at the U, and how you can use your major to find a career you'll enjoy. We'll also introduce you to many of the resources available on campus, and help you explore the ways internships, community service, work experience, and travel can impact your future success. A \$30 fee will be charged for career assessment inventories. Grading/Workload: Grades are determined based on student participation in class, 3-4 papers/projects, and other reaction papers as determined by the instructor. There are no exams in this course. An average of 25 pages of reading will be required each week.

ID 1201 Major and Career Exploration
2 credit(s); prereq Fr or soph;

Instructor: Whitney,Angie Schmidt

Description: Are you undecided about which major to choose? Or are you wondering what careers you can pursue with your major? In this class you'll learn about the foundations of career planning in relation to your interests. The course covers two main subjects: * Self-Assessment: Learn more about your skills, values, interests, and personality. * Exploring Options: Learn about majors available at the U, and how you can use your major to find a career you'll enjoy. We'll also introduce you to many of the resources available on campus, and help you explore the ways internships, community service, work experience, and travel can impact your future success. A \$30 fee will be charged for career assessment inventories. Grading/Workload: Grades are determined based on student participation in class, 3-4 papers/projects, and other reaction papers as determined by the instructor. There are no exams in this course. An average of 25 pages of reading will be required each week.

ID 1201 Major and Career Exploration
2 credit(s); prereq Fr or soph;

Instructor: Buckley,Christopher Gene

Description: Are you undecided about which major to choose? Or are you wondering what careers you can pursue with your major? In this class you'll learn about the foundations of career planning in relation to your interests. The course covers two main subjects: * Self-Assessment: Learn more about your skills, values, interests, and personality. * Exploring Options: Learn about majors available at the U, and how you can use your major to find a career you'll enjoy. We'll also introduce you to many of the resources available on campus, and help you explore the ways internships, community service, work experience, and travel can impact your future success. A \$30 fee will be charged for career assessment inventories. Grading/Workload: Grades are determined based on student participation in class, 3-4 papers/projects, and other reaction papers as determined by the instructor. There are no exams in this course. An average of 25 pages of reading will be required each week.

ID 1201 Major and Career Exploration
2 credit(s); prereq Fr or soph;

Instructor: Halverson,Joyce A

Description: Are you undecided about which major to choose? Or are you wondering what careers you can pursue with your major? In this class you'll learn about the foundations of career planning in relation to your interests. The course covers two main subjects: * Self-Assessment: Learn more about your skills, values, interests, and personality. * Exploring Options: Learn about majors available at the U, and how you can use your major to find a career you'll enjoy. We'll also introduce you to many of the resources available on campus, and help you explore the ways internships, community service, work experience, and travel can impact your future success. A \$30 fee will be charged for career assessment inventories. Grading/Workload: Grades are determined based on student participation in class, 3-4 papers/projects, and other reaction papers as determined by the instructor. There are no exams in this course. An average of 25 pages of reading will be required each week.

ID 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,Jesse D

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 3208 Internship Reflection: Making Meaning of Your Experience

1 credit(s); prereq dept consent ;

Instructor: Stubblefield,Robin A

Description: Want to make the most of your internship experience? This class will allow you to examine, reflect on, and construct meaning from your internship experience. You will have opportunities to assess your personal and career needs and goals, learn about what it means to be a ?professional? and operate within professional environments, evaluate your performance and accomplishments as well as get feedback from others and develop a resume that helps to best articulate your knowledge and skills. Grading/Workload. Your performance will be evaluated from multiple perspectives including active and substantive participation in group/online discussions, satisfactory completion of all required assignments, the students? self evaluations, internship supervisor evaluations and instructor evaluations and the successful completion of the hours at their internship site. Assignments consist of reading, journal reflections & reactions, 3-4 papers/projects and other assignments as determined by the instructor. There are no exams in this course. **This is an online course.**

ID 3571 Metro Urban Studies Term: Contested Theories of Poverty, Inequality, and Social Change
4 credit(s); prereq Concurrent registration is required (or

allowed) in 3572, 3573, dept consent ;

Instructor: Holliday, David Wallace

Description: In the Metro Urban Studies Term students activity delve into major challenges of our time: poverty, inequality and social change. Connecting these issues is at the core of the program. Instead of just learning about these problems in the classroom, students actively explore solutions and become engaged in organization committed to social transformation. This program focuses on learning the basics of organizing in communities and workplaces, how to persuade others to become critically engaged, and how to be an effective advocate for issues and people. Concurrent enrollment in ID 3572 and ID 3573 is required. Contact the CCLC (612-626-2044) for more information.

ID 3572 Metro Urban Studies Term: Social Policy and Anti-Poverty Strategies in Theory and Practice
4 credit(s); prereq Concurrent registration is required (or allowed) in 3571, 3573, dept consent ;

Instructor: Holliday, David Wallace

Description: In the Metro Urban Studies Term students activity delve into major challenges of our time: poverty, inequality and social change. Connecting these issues is at the core of the program. Instead of just learning about these problems in the classroom, students actively explore solutions and become engaged in organization committed to social transformation. This program focuses on learning the basic of organizing in communities and workplaces, how to persuade others to become critically engaged, and how to be an effective advocate for issues and people. Concurrent enrollment in ID 3571 and ID 3573 is required. Contact the CCLC (612-626-2044) for more information.

ID 3573 HECUA Off-Campus Study Program: Metro Urban Studies Term Internship Seminar
8 credit(s); prereq concurrent enrollment in 3571, 3572, dept consent; contact CCLC, 345 FraserH, 626-2044;

Instructor: Holliday, David Wallace

Description: In the Metro Urban Studies Term students activity delve into major challenges of our time: poverty, inequality and social change. Connecting these issues is at the core of the program. Instead of just learning about these problems in the classroom, students actively explore solutions and become engaged in organization committed to social transformation. This program focuses on learning the basic of organizing in communities and workplaces, how to persuade others to become critically engaged, and how to be an effective advocate for issues and people. This is an 8-credit internship in the Twin Cities. Concurrent enrollment in ID 3571 and ID 3573 is required. Contact the CCLC (612-626-2044) for more information.

ID 3591 HECUA Off-Campus Study Program: Environmental Sustainability: Adaptive Ecosystem Management

A-F only, 4 credit(s); prereq Concurrent registration is required (or allowed) in 3592, Concurrent registration is required (or allowed) in 3593, Concurrent registration is required (or allowed) in 3594, dept consent ;

Instructor: Holliday, David Wallace

Description: Students will gain a practical understanding of the ecological and physical processes that underlie environmental degradation. This course includes both classroom and field work. All majors are welcome! Concurrent registration in ID 3592, 3593, & 3594 is required. Contact the CCLC (612-626-2044) for more information.

ID 3592 HECUA Off-Campus Study Program: Environmental Sustainability: Dimensions of Environmental Change

A-F only, 4 credit(s); prereq Concurrent registration is required (or allowed) in 3591, Concurrent registration is required (or allowed) in 3593, Concurrent registration is required (or allowed) in 3594, dept consent ;

Instructor: Holliday, David Wallace

Description: All majors are welcome! Students explore how humans understand environmental sustainability, how current power dynamics and trends towards a global free market impact local efforts to promote sustainability, and how community and

social movements are developing alternative visions of environmental sustainability. This course includes both classroom and field work. Concurrent registration in ID 3591, 3593, & 3594 is required. Contact the CCLC (612-626-2044) for more information.

ID 3593 HECUA Off-Campus Study Program in Sustainability: Field Methods Research and Investigation

A-F only, 4 credit(s); prereq Concurrent registration is required (or allowed) in 3591, Concurrent registration is required (or allowed) in 3592, 3594, dept consent ;

Instructor: Holliday, David Wallace

Description: All majors are welcome! In this component of the program, students have an opportunity to work with scientists and community members to conduct publishable research. Concurrent registration in ID 3591, 3592, & 3594 is required. Contact the CCLC (612-626-2044) for more information.

ID 3594 HECUA Off-Campus Study Program: Environmental Sustainability, Internship

A-F only, 4 credit(s); prereq Concurrent registration is required (or allowed) in 3591, Concurrent registration is required (or allowed) in 3592, Concurrent registration is required (or allowed) in 3593, dept consent ;

Instructor: Holliday, David Wallace

Description: All majors are welcome! This 15-hour per week internship gives students an opportunity to interact and work with one of the most active networks of environmental organizations in the country. Concurrent registration in ID 3591, 3592, & 3593 is required. Contact the CCLC (612-626-2044) for more information.

ID 3901 Integrative Community Engagement Project Seminar
S-N only, 1 credit(s); prereq dept consent , Community Engagement Scholars coordinator approval;

Instructor: Hirt, Laurel Elizabe

Description: Student may contact the instructor or department for information.

ID 3901 Integrative Community Engagement Project Seminar
S-N only, 1 credit(s); prereq dept consent , Community Engagement Scholars coordinator approval;

Instructor: 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; prereq instr consent, dept consent, college consent;

Instructor: Hirt, Laurel Elizabe

Description: Student may contact the instructor or department for information.

ID 3993 Directed Study

1-4 credit(s), max credits 8, 8 completions allowed; prereq instr consent, dept consent, college consent;

Instructor: Timmins, Paul

Description: Student may contact the instructor or department for information.

International Business

2-210 Carlson School of Management

IBUS 3001 International Business Topics: International Business Topics: Accounting

A-F only, 3 credit(s), max credits 9, 3 completions allowed; prereq Consent of Carlson School International Programs;

Instructor: Caliendo, Charles Michael

Description: Student may contact the instructor or department for information.

IBUS 3001 International Business Topics: International

Business Topics - IDSC

A-F only, 3 credit(s), max credits 9, 3 completions allowed; prereq Consent of Carlson School International Programs;

Instructor: Gupta,Alok

Description: Student may contact the instructor or department for information.

Interpersonal Relationships Research

104 Child Development

IREL 8001 Proseminar in Interpersonal Relationships Research

S-N only, 1 credit(s), max credits 2; prereq Grad IRel minor;

Instructor: Collins,W Andrew

Description: Student may contact the instructor or department for information.

Introduced Species and Genotypes

ISG 5010 Risk Analysis for Introduced Species and Genotypes

A-F only, 3 credit(s); prereq Grad student or [sr, instr consent];

Instructor: Newman,Raymond M

Description: Student may contact the instructor or department for information.

ISG 8001 Discussions in Introduced Species and Genotypes

S-N only, 1 credit(s), max credits 10, 10 completions allowed;

Instructor: Shaw,Ruth Geyer

Description: Student may contact the instructor or department for information.

ISG 8021 Problem Solving Practicum in Risk Analysis

A-F only, 3 credit(s), max credits 6; prereq 5010, 5020;

Instructor: Kuzma,Jennifer

Description: Student may contact the instructor or department for information.

Italian

260 Folwell Hall

ITAL 1001 Beginning Italian

5 credit(s); Credit will not be granted if credit has been received for: ITAL 4001;

Instructor: STAFF

Description: Italian 1001 introduces students to the language and culture of Italy. Class time is spent on presentations of new concepts and on continual use of material already taught. Students work individually, in pairs and in groups. They learn to read, write, speak and understand Italian. They view Italian films. Integral parts of this course will be the online assignments (Quia workbook and laboratory manuals) that students are required to do at home and the cultural reading text Stelle, perle e mistero. By the end of the first semester, students can communicate in a number of real life situations and are becoming comfortable with the present and the past tenses. The grade is based on daily participation and homework performance, frequent quizzes, oral exams, compositions, and the final exam. Students who pass 1001 with a grade of +C-" or higher can then move on to Italian 1002.

Grading: 15% final exam, 65% quizzes, 5% class participation, 15% other evaluation. oral presentations

Exam Format: Fill in the blank; true/false; essay; short answer

ITAL 1002 Beginning Italian

5 credit(s); Credit will not be granted if credit has been received for: ITAL 4002;

Instructor: STAFF

Description: Italian 1002 is the second semester of beginning Italian: students must have completed Italian 1001 with a grade of "C-" or better in order to take Italian 1002. Italian 1002 introduces students to the language and culture of Italy. Class time is spent on presentations of new concepts and on continual use of material already taught. Students work individually, in pairs and in groups. They learn to read, write, speak and understand Italian. They view Italian films. Integral parts of this course will be the online assignments (Quia workbook and laboratory manuals) that students are required to do at home and the cultural reading text Stelle, perle e mistero. By the end of the second semester, students can communicate in a number of real life situations and are becoming comfortable with the present and the past tenses. Students who pass 1002 with a grade of "C-" or higher can then move on to Italian 1003.

Grading: 15% final exam, 65% quizzes, 5% class participation, 15% other evaluation. oral presentations

Exam Format: Short answer; fill in the blank, true/false

ITAL 1003 Intermediate Italian

5 credit(s); prereq 1001-1002; Credit will not be granted if credit has been received for: ITAL 4003;

Instructor: STAFF

Description: Italian 1003 is the third semester course of Italian language and culture. (Students must have completed the equivalent of a year of university level Italian instruction before taking this course.) Students concentrate on mastering elements of grammar and on increasing their active vocabularies. They continue to read, write, speak and listen to current Italian. Each student chooses a topic for a cultural presentation, which is both written and spoken. Italian films are integrated into the program. An integral part of this course is reading the text, Pinocchio. The grade is based on daily participation and homework performance, frequent quizzes, oral exams, compositions, cultural presentation and the final exam. At the end of the third semester, students who pass with a grade of "C-" or higher are ready to move on to Italian 1004 or to study in Italy.

Grading: 10% final exam, 70% quizzes, 5% class participation, 15% other evaluation. oral exam

Exam Format: essay, short answer, fill-in blank, true/false

ITAL 1004 Intermediate Italian

5 credit(s); prereq 1001, 1002, 1003; Credit will not be granted if credit has been received for: ITAL 4004;

Instructor: STAFF

Description: Italian 1004 is the fourth semester course of Italian language and culture. (Students must have completed the equivalent of one and a half years of university level Italian instruction before taking this course.) Having learned all the basic grammar concepts students now concentrate on mastering these elements and on increasing their active vocabularies. They continue to read, write, speak and listen to Italian. Each student chooses a topic for a cultural presentation, which is both written and spoken. Italian films are integrated into the program. At the end of the fourth semester, students who pass with a grade of "C-" or higher are ready to move on to Italian 3015 or to study in Italy.

Grading: 10% final exam, 70% quizzes, 5% class participation, 15% other evaluation. oral exam

Exam Format: essay, short answer, fill-in-blank, true/false, various presentations

ITAL 3015 Reading, Conversation, and Composition

4 credit(s); prereq 1004;

Instructor: Rider,Kathleen Marie

Description: Student may contact the instructor or department for information.

ITAL 3201 Reading Italian Texts: Poetics, Rhetoric, Theory

3 credit(s), max credits 9, 3 completions allowed; prereq 3015; Credit will not be granted if credit has been received for: ITAL 5201;

Instructor: Ferlito,Susanna Florenc

Description: This course is intended to introduce students to the reading and interpretation of different kinds of texts (fictional, poetic, theoretical, personal, reportage, philosophical, oral histories etc). It will take as its point of departure Maria Zambrón's philosophical essay "Why write.?" Among authors to be read: Calvino, Booth, Burke, Bahktin, Saviano, Rushdie, Portelli. The course is 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 3550 Topics in 19th Century Italy: Cultures of Sensibility

3 credit(s), max credits 12, 4 completions allowed; prereq 3015 or instr consent ;

Instructor: Ferlito, Susanna Florenc

Description: In this course provisionally entitled Nerves and Narratives, we will be examining nineteenth-century representations of emotional, mental and physical suffering in literature, art, and in medical writings. Our point of departure is a simple question: how did men and women represent their personal experience of suffering? The question will lead us to explore in some detail early nineteenth-century notions of the self as (Etre sensible) and to examine a variety of texts including novels, diaries, letters, medical treatises representing intimate and personal accounts of pain and suffering. While our main focus will be on Italy and Italian writers we will also be reading French and English authors. Among the authors to be studied: Alfieri, Foscolo, Manzoni, Leopardi, Belgioiso, Flaubert, Sand, Pinel, Esquirol, Austen. (French texts will be read in Italian unless students are able to read in the original). The course is taught in Italian. Midterm paper and Final paper (50%) and class participation (50%)

ITAL 3640 Topics in Italian Studies: Sicilian Writers

4 credit(s), max credits 16, 4 completions allowed;

Instructor: Fitzgerald, M. J

Description: Some of the most important Italian writers of the 19th and 20th century are from Sicily: by reading them we can get both a snapshot and a cross-section of Italian history and literature. The authors will range from Verga and Pirandello to Lampedusa, Sciascia, Bufalino and the contemporary Maraini and Camilleri. The class will be taught in English, but reading in Italian is encouraged and will be noted for possible extra credit for students who are studying Italian.

ITAL 4001 Beginning Italian

2 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: ITAL 1001;

Instructor: Bray, Laura Smolizza

Description: Student may contact the instructor or department for information.

ITAL 4002 Beginning Italian

2 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: ITAL 1002;

Instructor: Olivero-Agney, Anna B

Description: Student may contact the instructor or department for information.

ITAL 4003 Intermediate Italian

2 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: ITAL 1003;

Instructor: Cocchi, Cristina

Description: Student may contact the instructor or department for information.

ITAL 4004 Intermediate Italian

2 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: ITAL 1004;

Instructor: Bray, Laura Smolizza

Description: Student may contact the instructor or department for information.

ITAL 4970 Directed Readings

1-4 credit(s), max credits 16, 4 completions allowed; prereq instr consent;

Instructor: STAFF

Description: Meets unique requirements decided on by faculty member and student. Individual contracts are drawn up listing contact hours, number of credits, written and other work required.

ITAL 5550 Topics in 19th Century Italy: Cultures of Sensibility

3 credit(s), max credits 12, 4 completions allowed; prereq Ital 3015 or instr consent ;

Instructor: Ferlito, Susanna Florenc

Description: In this course provisionally entitled Nerves and Narratives, we will be examining nineteenth-century representations of emotional, mental and physical suffering in literature, art, and in medical writings. Our point of departure is a simple question: how did men and women represent their personal experience of suffering? The question will lead us to explore in some detail early nineteenth-century notions of the self as (Etre sensible) and to examine a variety of texts including novels, diaries, letters, medical treatises representing intimate and personal accounts of pain and suffering. While our main focus will be on Italy and Italian writers we will also be reading French and English authors. Among the authors to be studied: Alfieri, Foscolo, Manzoni, Leopardi, Belgioiso, Flaubert, Sand, Pinel, Esquirol, Austen. (French texts will be read in Italian unless students are able to read in the original). The course is taught in Italian. Midterm paper and Final paper (50%) and class participation (50%)

ITAL 5970 Directed Readings

1-4 credit(s), max credits 16, 4 completions allowed; prereq instr consent;

Instructor: STAFF

Description: Meets unique requirements decided on by faculty member and student. Individual contracts are drawn up listing contact hours, number of credits, written and other work required.

Japanese 453 Folwell Hall

JPN 1011 Beginning Japanese

6 credit(s); Credit will not be granted if credit has been received for: JPN 4001;

Instructor: Tazawa, Kenichi

Description: This course is the first of a two-semester sequence of Beginning Japanese; it is for students who have no previous knowledge of Japanese. It aims to begin development of communication skills in Japanese. Therefore, we will work on the four basic skills of language (speaking, listening, reading, and writing) as well as culture-specific skills (do's and don'ts). The following topics are covered in this semester: 1. Meeting people for the first time 2. Shopping and eating out 3. Describing activities and extending/declining invitations 4. Describing locations and things in the past 5. Making offers and talking about travel 6. Making a request, asking for/giving permission, and talking about rules The course will cover lessons 1 through 6 of Genki including both dialogue/grammar and reading/writing. It is expected that, by the end of this semester, students will have basic conversation skills in situations like those noted above, as well as rudimentary literacy in Japanese. Two types of Japanese characters (hiragana and katakana), as well as 58 Chinese characters (kanji) will be learned.

Style: 29% Lecture, 71% Discussion.

Grading: 15% quizzes, 20% written homework, 10% attendance. Lesson Tests 35% (5 times) Oral Interviews 10% (2 times) Dialogue Checks 10% (Each Lesson)

JPN 3021 Intermediate Japanese

5 credit(s); prereq 1012 or instr consent; Credit will not be granted if credit has been received for: JPN 4003;

Instructor: Emmett,Keiko

Description: This course is the first of a two-semester sequence of Intermediate Japanese. The course will cover Lessons 13 through 17 of Genki (Refer to COURSE MATERIALS below), both sections of dialogue/grammar and of reading/writing. The course aims to develop the four communication skills (i.e., speaking, listening, reading, and writing) at an intermediate level as well as culture-specific skills (do's and don'ts). The items that will be covered in this semester include but are not limited to: 1. Telling what you can or cannot do, 2. Consulting, 3. Explaining things in detail, and 4. Making a request in a polite manner. It is expected that, by the end of this semester, students will be able to use the above functions for a job-interview, a request for the extension of a deadline, and so on. Students also will be able to read and write an expository essay. Seventy-nine kanji characters will be introduced, in addition to 145 characters learned in the previous lessons. **PREREQUISITE:** JPN1012/4002 You are required to take a placement test if: (1) your grade for JPN1012/4002 at the University of Minnesota was neither a C- or better, nor an S, or (2) you took JPN1012/4002 at the University of Minnesota before 2008. The placement test will be given in late August, 2009. Please go to "Placement Test Info" on the Japanese Language Home Page and register for the test.
http://www.all.umn.edu/japanese_language/placement_test_info.html

JPN 3031 Third-Year Japanese

4 credit(s); prereq 3022 or instr consent;

Instructor: Buchanan,Michiko Todokoro

Description: Student may contact the instructor or department for information.

JPN 4001 Beginning Japanese

3 credit(s); prereq Grad student; Credit will not be granted if credit has been received for: JPN 1011;

Instructor: Tazawa,Kenichi

Description: This course is the first of a two-semester sequence of Beginning Japanese; it is for students who have no previous knowledge of Japanese. It aims to begin development of communication skills in Japanese. Therefore, we will work on the four basic skills of language (speaking, listening, reading, and writing) as well as culture-specific skills (do's and don'ts). The following topics are covered in this semester: 1. Meeting people for the first time 2. Shopping and eating out 3. Describing activities and extending/declining invitations 4. Describing locations and things in the past 5. Making offers and talking about travel 6. Making a request, asking for/giving permission, and talking about rules The course will cover lessons 1 through 6 of Genki including both dialogue/grammar and reading/writing. It is expected that, by the end of this semester, students will have basic conversation skills in situations like those noted above, as well as rudimentary literacy in Japanese. Two types of Japanese characters (hiragana and katakana), as well as 58 Chinese characters (kanji) will be learned.

Style: 29% Lecture, 71% Discussion.

Grading: 15% quizzes, 20% written homework, 10% attendance. Lesson Tests 35% (5 times) Oral Interviews 10% (2 times) Dialogue Checks 10% (Each Lesson)

JPN 4003 Intermediate Japanese

3 credit(s); prereq 4002, grad student; Credit will not be granted if credit has been received for: JPN 3021;

Instructor: Emmett,Keiko

Description: This course is the first of a two-semester sequence of Intermediate Japanese. The course will cover Lessons 13 through 17 of Genki (Refer to COURSE MATERIALS below), both sections of dialogue/grammar and of reading/writing. The course aims to develop the four communication skills (i.e., speaking, listening, reading, and writing) at an intermediate level as well as culture-specific skills (do's and don'ts). The items that will be covered in this semester include but are not limited to: 1. Telling what you can or cannot do, 2. Consulting, 3. Explaining things in detail, and 4. Making a request in a polite manner. It is expected that, by the end of this semester, students will be able to use the above functions for a job-interview, a request for the extension of a deadline, and so on. Students also will be able to

read and write an expository essay. Seventy-nine kanji characters will be introduced, in addition to 145 characters learned in the previous lessons. **PREREQUISITE:** JPN1012/4002 You are required to take a placement test if: (1) your grade for JPN1012/4002 at the University of Minnesota was neither a C- or better, nor an S, or (2) you took JPN1012/4002 at the University of Minnesota before 2008. The placement test will be given in late August, 2009. Please go to "Placement Test Info" on the Japanese Language Home Page and register for the test.
http://www.all.umn.edu/japanese_language/placement_test_info.html

JPN 4005 Third Year Japanese

3 credit(s); prereq 4004, grad student; Credit will not be granted if credit has been received for: JPN 4006;

Instructor: Buchanan,Michiko Todokoro

Description: Student may contact the instructor or department for information.

JPN 4041 Advanced Japanese Conversation and Composition

4 credit(s); prereq 3032 or instr consent;

Instructor: Fujimoto,Kyoko

Description: Student may contact the instructor or department for information.

JPN 5993 Directed Studies in Japanese

1-15 credit(s), max credits 15, 1 completion allowed; prereq instr consent, dept consent, college consent;

Instructor: Anderson,Mark

Description: Student may contact the instructor or department for information.

JPN 5993 Directed Studies in Japanese

1-15 credit(s), max credits 15, 1 completion allowed; prereq instr consent, dept consent, college consent;

Instructor: Isaka,Maki

Description: Student may contact the instructor or department for information.

JPN 5993 Directed Studies in Japanese

1-15 credit(s), max credits 15, 1 completion allowed; prereq instr consent, dept consent, college consent;

Instructor: Marran,Christine L

Description: Student may contact the instructor or department for information.

Jewish Studies Center for Jewish Studies

JWST 1034 Introduction to Jewish History and Civilization

3 credit(s); prereq credit will not be granted if credit already received for: JwSt 1034/3034/RelA 1034/3034 RelS 1034/3034; Credit will not be granted if credit has been received for: JWST 3034; Meets CLE req of Historical Perspective Core;

Instructor: Jassen,Alex

Description: The course provides a general introduction to Judaism in its many ancient and modern expressions. Special attention is paid to the social, literary, historical, and cultural influences that have helped shape the varieties of Jewish traditions. The central ideas and motifs of Judaism to be addressed include: God, scripture and tradition, covenant, law, messianism and mysticism, Jewish identity, ritual and worship, political life, Jewish ethics, Jewish nationalism. Each unit compares these various aspects of Judaism in diverse times and places. Students engage with these topics through reading a wide selection of primary texts in translation. The goal of the course is to provide students with an overview of the history of Judaism, engagement with the central texts of Judaism, and a basic knowledge of Jewish religious customs. Students gain an understanding of the ancient, medieval, and modern expressions of Judaism, along with a sensitivity to the points of contact and divergence among these traditions. Full syllabus and further

information available at: http://www.tc.umn.edu/~jassen/index_files/Page1222.htm
Style: 80% Lecture, 20% Discussion. We will also draw upon other modes of learning such as film, music, and material culture
Grading: 25% mid exam, 30% final exam, 35% reports/papers, 10% class participation.
Exam Format: Identifications, Short and Long Essay

JWST 3034 Introduction to Jewish History and Civilization
3 credit(s); prereq credit will not be granted if credit already received for: JwSt 1034/3034/RelA 1034/3034 RelS 1034/3034; Credit will not be granted if credit has been received for: JWST 1034; Meets CLE req of Historical Perspective Core;
Instructor: Jassen,Alex

Description: The course provides a general introduction to Judaism in its many ancient and modern expressions. Special attention is paid to the social, literary, historical, and cultural influences that have helped shape the varieties of Jewish traditions. The central ideas and motifs of Judaism to be addressed include: God, scripture and tradition, covenant, law, messianism and mysticism, Jewish identity, ritual and worship, political life, Jewish ethics, Jewish nationalism. Each unit compares these various aspects of Judaism in diverse times and places. Students engage with these topics through reading a wide selection of primary texts in translation. The goal of the course is to provide students with an overview of the history of Judaism, engagement with the central texts of Judaism, and a basic knowledge of Jewish religious customs. Students gain an understanding of the ancient, medieval, and modern expressions of Judaism, along with a sensitivity to the points of contact and divergence among these traditions. Full syllabus and further information available at: http://www.tc.umn.edu/~jassen/index_files/Page1222.htm

Style: 80% Lecture, 20% Discussion. We will also draw upon other modes of learning such as film, music, and material culture.
Grading: 25% mid exam, 30% final exam, 35% reports/papers, 10% class participation.
Exam Format: Identifications, Short and Long Essay

JWST 3111 Too Jewish? The Complex Construction of the Jewish American Psyche in Literature, Art, and Film
A-F only, 3 credit(s);
Instructor: Katz,Judith

Description: What does it mean that the character of Jewish heroine Anne Frank was played by a gentile actress in the film version of her diary? That Jewish immigrant Irving Berlin wrote the American classic, White Christmas? How did it happen that Jewish songwriters Carole King, Neil Sedaka and Denise Rich have created, over generations, music made popular by African American performers? What did the celebrity of notables such as Leonard Bernstein, Norman Mailer, Albert Einstein, and Helena Rubenstein mean for Jews in post World War II America? Who knew that Mattel's Barbie doll was invented by a Jewish woman? And what about Herschel Krustofsky, AKA The Simpsons? Krusty the Clown? Using essays, novels, short stories, and film this class will address these and many other questions about the image and location of Jews in American literature, film, and the arts, both center stage and behind the scenes.

Style: 30% Lecture, 20% Film/Video, 30% Discussion, 10% Student Presentation, 10% Guest Speakers.
Grading: 50% reports/papers, 10% attendance, 10% in-class presentation, 30% class participation.

JWST 3521W History of the Holocaust
3 credit(s); Credit will not be granted if credit has been received for: RELS 3521W; Meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive;
Instructor: Snyder,Edward N

Description: Student may contact the instructor or department for information.

JWST 3900 Topics: Jewish Studies: Muslims/Jews in Early Modern English Literature
A-F only, 3 credit(s), max credits 15, 5 completions allowed;
Instructor: Matar,Nabil I
Description: Student may contact the instructor or department for information.

JWST 3900 Topics: Jewish Studies: Muslims & Jews: Conflict & Coexistence since 1700
A-F only, 3 credit(s), max credits 15, 5 completions allowed;
Instructor: Schroeter,Daniel J
Description: Jews and Muslim have coexisted and influenced each other over many centuries, especially in the Middle East and North Africa. While Muslim-Jewish relations in the 20th century have often been characterized exclusively by bitter enmity, in earlier centuries the interactions of Muslims and Jews have been characterized as a symbiotic relationship by some and a state of perpetual tension and conflict by others. This course will examine the diversity of social and cultural interactions between Muslims and Jews and between Islam and Judaism since 1700. It seeks to answer the question: what enabled the two religious communities to peacefully coexist and what were the causes of conflict? Why is the history of Muslim-Jewish relations such a contested issue today?

JWST 4001W Final Project, Writing Intensive
A-F only, 1 credit(s); prereq concurrent enrollment 5xxx, JwSt major, permission of dir of undergrad studies; Meets CLE req of Writing Intensive;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

Journalism and Mass Communication

111 Murphy Hall

JOUR 1001 Introduction to Mass Communication
A-F only, 3 credit(s); prereq Pre-jour or non-jour major; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Social Science Core;
Instructor: Williams,Jennifer Lisa
Description: Student may contact the instructor or department for information.

JOUR 1001 Introduction to Mass Communication
A-F only, 3 credit(s); prereq Pre-jour or non-jour major; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Social Science Core;
Instructor: Kaiser,Kent Luther
Description: Student may contact the instructor or department for information.

JOUR 1001 Introduction to Mass Communication
A-F only, 3 credit(s); prereq Pre-jour or non-jour major; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Social Science Core;
Instructor: Hansen,Kathleen Ann
Description: Student may contact the instructor or department for information.

JOUR 1001H Honors: Introduction to Mass Communication
A-F only, 3 credit(s); prereq Honors, [pre-jour or non-jour major]; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Social Science Core;
Instructor: Paul,Nora
Description: Student may contact the instructor or department for information.

JOUR 3004W Information for Mass Communication
A-F only, 3 credit(s); prereq Jour major or jour minor or approved IDIM major or ICP major or BIS major; prereqs do

not apply to IDL sections; Meets CLE req of Writing Intensive;

Instructor: Roberts Edenborg,Katherine Erin

Description: Student may contact the instructor or department for information.

JOUR 3004W Information for Mass Communication

A-F only, 3 credit(s); prereq Jour major or jour minor or approved IDIM major or ICP major or BIS major; prereqs do not apply to IDL sections; Meets CLE req of Writing Intensive;

Instructor: Paul,Nora

Description: This course introduces the concept of the information strategy as it applies to mass communication. The strategies, techniques and resources discussed will apply to any type of mass communication message production; they will also apply to academic work such as term paper and project production. We are most concerned with the process of information gathering, evaluation and use. A case study format will be used to study this process in depth throughout the semester. The case study topic for this semester changes each semester and draws from current news issues for which examples abound in advertising, news and public relations. WebCT is used for all the course materials.

Style: 66% Lecture, 34% Discussion.

Grading: 16% mid exam, 16% final exam, 30% special projects, 12% class participation, 26% problem solving.

Exam Format: Multiple choice and true / false

JOUR 3004W Information for Mass Communication

A-F only, 3 credit(s); prereq Jour major or jour minor or approved IDIM major or ICP major or BIS major; prereqs do not apply to IDL sections; Meets CLE req of Writing Intensive;

Instructor: Gloviczki,Peter Joseph

Description: Student may contact the instructor or department for information.

JOUR 3005 Mass Media Effects

A-F only, 3 credit(s); prereq Non-jour major or [jour major, course approval in program plan] or [pre-jour, adviser approval];

Instructor: Yzer,Marco

Description: Student may contact the instructor or department for information.

JOUR 3006 Visual Communication

A-F only, 3 credit(s); prereq Jour major or jour minor or design comm premajor or design comm major or graphic design premajor or graphic design major or approved IDIM major or ICP major or BIS major or instr consent ;

Instructor: Schwartz,Dona

Description: Student may contact the instructor or department for information.

JOUR 3007 The Media in American History and Law: Case Studies

A-F only, 3 credit(s); prereq Non-jour major or [jour major, course appr on prog plan] or [pre-jour, adviser approval]; Meets CLE req of Historical Perspective Core;

Instructor: Dell'Orto,Giovanna

Description: Student may contact the instructor or department for information.

JOUR 3101 News Reporting and Writing

A-F only, 3 credit(s); prereq [3004W or Concurrent registration is required (or allowed) in 3004W or 3004V], [jour major or jour minor or approved IDIM major or ICP major or BIS major], typing skill; Credit will not be granted if credit has been received for: JOUR 3101H;

Instructor: Ison,Christopher John

Description: This is a writing-intensive course that teaches students the fundamentals of news writing and gets them started learning basic reporting skills. Students will learn how to write basic news stories using Associated Press style. They'll move from writing hard-news leads to short news stories to slightly

longer stories. They'll learn how to identify the most important information for a story, organize the information and write descriptively and with clarity. By the end of the semester, they'll be finding some stories on their own, conducting interviews and other research. Class discussion will address news judgment, accuracy, interviewing and source development, ethics, public records law, in-depth reporting skills and other issues.

Style: 25% Lecture, 25% Discussion, 50% Laboratory.

Grading: 25% reports/papers, 25% quizzes, 50% laboratory evaluation.

JOUR 3101 News Reporting and Writing

A-F only, 3 credit(s); prereq [3004W or Concurrent registration is required (or allowed) in 3004W or 3004V], [jour major or jour minor or approved IDIM major or ICP major or BIS major], typing skill; Credit will not be granted if credit has been received for: JOUR 3101H;

Instructor: Landa,Amy Snow

Description: Student may contact the instructor or department for information.

JOUR 3101 News Reporting and Writing

A-F only, 3 credit(s); prereq [3004W or Concurrent registration is required (or allowed) in 3004W or 3004V], [jour major or jour minor or approved IDIM major or ICP major or BIS major], typing skill; Credit will not be granted if credit has been received for: JOUR 3101H;

Instructor: Golden,Gayle Celeste

Description: This course teaches the basic skills need to report and write news. The course emphasizes the ability to recognize news values as well as to write clearly, concisely, accurately and in correct Associated Press style about news events. Students will write a variety of stories, including spot news, obituaries, advances and news features. Skills taught include interviewing, attributing, using public records, setting stories in context and applying numbers correctly to tell stories. The course is for professional journalism students at the start of their major course work. Students also create and maintain online news logs to summarize, compare and analyze news coverage.

Style: 60% Lecture, 40% Discussion.

Grading: 5% mid exam, 70% reports/papers, 10% quizzes, 15% class participation.

Exam Format: short answer

JOUR 3101 News Reporting and Writing

A-F only, 3 credit(s); prereq [3004W or Concurrent registration is required (or allowed) in 3004W or 3004V], [jour major or jour minor or approved IDIM major or ICP major or BIS major], typing skill; Credit will not be granted if credit has been received for: JOUR 3101H;

Instructor: Thompson,Melissa Emily

Description: Student may contact the instructor or department for information.

JOUR 3101 News Reporting and Writing

A-F only, 3 credit(s); prereq [3004W or Concurrent registration is required (or allowed) in 3004W or 3004V], [jour major or jour minor or approved IDIM major or ICP major or BIS major], typing skill; Credit will not be granted if credit has been received for: JOUR 3101H;

Instructor: Gillespie,Scott Robert

Description: Student may contact the instructor or department for information.

JOUR 3102 Convergence Journalism

A-F only, 3 credit(s); prereq [3004W or 3004V or Concurrent registration is required (or allowed) in 3004W or Concurrent registration is required (or allowed) in 3004V], [3101 or 3101H or Concurrent registration is required (or allowed) in 3101 or Concurrent registration is required (or allowed) in 3101H], [Jour major or approved IDIM major or ICP major or BIS major];

Instructor: Broeckert,Jerry

Description: Student may contact the instructor or department for information.

JOUR 3102 Convergence Journalism

A-F only, 3 credit(s); prereq [3004W or 3004V or Concurrent registration is required (or allowed) in 3004W or Concurrent registration is required (or allowed) in 3004V], [3101 or 3101H or Concurrent registration is required (or allowed) in 3101 or Concurrent registration is required (or allowed) in 3101H], [Jour major or approved IDIM major or ICP major or BIS major];

Instructor: Lambert,Kenneth Morgan

Description: Student may contact the instructor or department for information.

JOUR 3121 Intermediate News Reporting

A-F only, 3 credit(s); prereq [3004W or 3004V], [3101 or 3101H], [jour major or approved IDIM major or ICP major or BIS major];

Instructor: Ison,Christopher John

Description: This is a class tailored to undergraduate journalism majors in the news/editorial sequence. Students will learn how to report on the people, events and institutions that make up the most fundamental news beats in any newsroom. They'll learn by doing - hitting the streets to find news stories at city hall, the police department, the courthouse, etc. They'll need to apply what they learned in Journalism 3101 (Newswriting) and the additional writing skills they learn during the semester in this class. The class will emphasize how to find and use public records for news stories, how to find and interview sources and how to organize information so that stories are interesting and understandable to readers. The instructor will emphasize class discussion to learn about reporting methods, ethics and news judgment. Students will be required to read the newspaper every day and be able to think critically and discuss the news in class. By the end of the semester, students will understand how newsrooms work, and how good reporters produce accurate, high-quality stories for print and broadcast.

Style: 40% Lecture, 40% Discussion. TV news viewing, guest speakers, in-class exercises, etc.

Grading: 100% reports/papers. Occasional quizzes, as well as attendance and class participation could factor in to grades

JOUR 3121 Intermediate News Reporting

A-F only, 3 credit(s); prereq [3004W or 3004V], [3101 or 3101H], [jour major or approved IDIM major or ICP major or BIS major];

Instructor: Anderson Jr,Gerald

Description: Student may contact the instructor or department for information.

JOUR 3121 Intermediate News Reporting

A-F only, 3 credit(s); prereq [3004W or 3004V], [3101 or 3101H], [jour major or approved IDIM major or ICP major or BIS major];

Instructor: Coleman,Nicholas Joseph

Description: Student may contact the instructor or department for information.

JOUR 3173W Magazine Writing

A-F only, 3 credit(s); prereq [3004W or 3304V, 3101 or 3101H], [jour major or approved IDIM major or ICP major or BIS major]; prereqs do not apply to IDL sections; Meets CLE req of Writing Intensive;

Instructor: Froiland,Paul V

Description: Student may contact the instructor or department for information.

JOUR 3173W Magazine Writing

A-F only, 3 credit(s); prereq [3004W or 3304V, 3101 or 3101H], [jour major or approved IDIM major or ICP major or BIS major]; prereqs do not apply to IDL sections; Meets CLE req of Writing Intensive;

Instructor: Rosengren,John Michael

Description: Student may contact the instructor or department for information.

JOUR 3173W Magazine Writing

A-F only, 3 credit(s); prereq [3004W or 3304V, 3101 or

3101H], [jour major or approved IDIM major or ICP major or BIS major]; prereqs do not apply to IDL sections; Meets CLE req of Writing Intensive;

Instructor: Golden,Gayle Celeste

Description: This course will teach students the concepts and skills of writing for magazines. Students will learn how to identify a magazine's niche and how to market stories editors want. Through a series of writing assignments, all of which will be edited and rewritten, students will then learn how to market, develop and write the most common types of magazine stories. In the end, students will have some experience pitching a story to a publication, giving them the first step into that marketplace.

Style: 50% Lecture, 30% Discussion, 20% Small Group Activities.

Grading: 10% special projects, 70% written homework, 20% class participation.

JOUR 3201 Principles of Strategic Communication: Advertising

A-F only, 3 credit(s); prereq [3004V or Concurrent registration is required (or allowed) in 3004V or 3004W or Concurrent registration is required (or allowed) in 3004W], [jour major or mass comm minor or design comm premajor or major or graphics design premajor or major or approved IDIM major or ICP major or BIS major];

Instructor: Williams,Jennifer Lisa

Description: Student may contact the instructor or department for information.

JOUR 3201 Principles of Strategic Communication: Advertising

A-F only, 3 credit(s); prereq [3004V or Concurrent registration is required (or allowed) in 3004V or 3004W or Concurrent registration is required (or allowed) in 3004W], [jour major or mass comm minor or design comm premajor or major or graphics design premajor or major or approved IDIM major or ICP major or BIS major];

Instructor: Shin,Wonsun

Description: Student may contact the instructor or department for information.

JOUR 3202 Principles of Strategic Communication: Public Relations

A-F only, 3 credit(s); prereq [3004V or Concurrent registration is required (or allowed) in 3004V or 3004W or Concurrent registration is required (or allowed) in 3004W], [jour major or mass comm minor or approved IDIM major or ICP major or BIS major];

Instructor: Therikelsen,David Jon

Description: Student may contact the instructor or department for information.

JOUR 3202 Principles of Strategic Communication: Public Relations

A-F only, 3 credit(s); prereq [3004V or Concurrent registration is required (or allowed) in 3004V or 3004W or Concurrent registration is required (or allowed) in 3004W], [jour major or mass comm minor or approved IDIM major or ICP major or BIS major];

Instructor: LaMarre,Heather Lyn

Description: Student may contact the instructor or department for information.

JOUR 3241 Creative Strategy and Copywriting

A-F only, 3 credit(s); prereq [3004W or 3004V, 3201], [jour major or approved IDIM major or ICP major or BIS major];

Instructor: Shaw,Sarah Brady

Description: This introductory course acquaints students with the strategic skills needed to produce copy with emphasis placed on print advertising. By the end of the semester, successful students will be able to recognize solid advertising, create basic copy and present it to others. While designed primarily for the potential copywriter, this course will be useful for any advertising student desiring a working knowledge of the creative end of the business. Individual guidance will be available for students wishing to prepare portfolios. The text are Bendinger's 'The Copy Workshop Workbook' and Strunk and White 'The Elements of Style.'

Style: 60% Lecture, 40% Discussion.

Grading: 15% mid exam, 25% final exam, 25% reports/papers, 10% quizzes, 25% class participation.

Exam Format: definitions, short answer, essay, final exam is a campaign project

JOUR 3241 Creative Strategy and Copywriting

A-F only, 3 credit(s); prereq [3004W or 3004V, 3201], [jour major or approved IDIM major or ICP major or BIS major]; Instructor: Johnson, Jennifer M

Description: This course introduces students to creative strategic development and conceptual thinking in advertising. They will develop creative ideas and copy based on strategies, with particular emphasis on print. At the end of the term, successful students will be able to recognize solid advertising, develop an intelligent creative strategy, create concepts and copy, and present their ideas to others.

Style: 60% Lecture, 40% Discussion.

Grading: Team presentations account for 40% of final grade and individual quizzes, assignments, and participation account for 60% of final grade.

Exam Format: no standard format

JOUR 3251 Strategic Communication Research

A-F only, 3 credit(s); prereq [3004W or 3004V], [3159 or 3201 or 3202], [jour major or approved IDIM major or ICP major or BIS major];

Instructor: Doyle, Kenneth Owen

Description: This section of JOUR 3251 brings together all the standard elements of Strategic Communication Research -- interviews, focus groups, and surveys -- but with heavy emphasis on using them in real-life applications. Roughly the first half of the course will emphasize "book learning," so you have the tools and techniques to go on to the second half. The second half will emphasize applying what you've learned, first in a group project, then in an individual project. Both the group project and the individual project will focus on integrating quantitative and qualitative primary and secondary research to discover the psychological consumer and brand insights that form the core of the most powerful advertising and public relations campaigns.

Style: 40% Lecture, 10% Discussion. Doing real-life strategic communication research projects

Grading: 25% mid exam. Group Project 25%, Individual Project 50%.

Exam Format: Matching, and short essay: define, compare/contrast/etc.

JOUR 3251 Strategic Communication Research

A-F only, 3 credit(s); prereq [3004W or 3004V], [3159 or 3201 or 3202], [jour major or approved IDIM major or ICP major or BIS major];

Instructor: Huh, Jisu

Description: Course Objectives: Strategic communication research helps provide information for advertisers, advertising agencies, and PR practitioners to understand their product, target audience, publics, and the factors which influence strategic communications to help them in making decisions. A major goal of this course is to teach you the importance of research in strategic communication and different types of research methods. Upon completion of this course, you should be able to: . Understand the role of research in strategic communication. . Understand the strategic communication research process. . Apply quantitative and qualitative research methods to a real-world strategic communication situation. . Understand social issues relating to strategic communication research, including the ethics of the research. Teaching methods: lecture and discussion Textbook: Fortini-Campbell, Lisa (2001), Hitting the Sweet Spot, The Copy Workshop. Target audience: undergraduate, ad/PR majors

Style: 80% Lecture, 20% Discussion.

Grading: 25% mid exam, 25% final exam, 15% reports/papers, 25% special projects, 10% class participation.

Exam Format: a combination of true-false, multiple-choice, fill-in-the-blank, and short answer questions

JOUR 3279W Public Relations Writing and Campaign Tactics

A-F only, 3 credit(s); prereq [3004W or 3004V], [3159 or 3201 or 3202], [jour major or approved IDIM major or ICP major or BIS major]] or [professional jour track, instr consent];

Meets CLE req of Writing Intensive;

Instructor: Schriener, Maureen M

Description: Student may contact the instructor or department for information.

JOUR 3279W Public Relations Writing and Campaign Tactics

A-F only, 3 credit(s); prereq [3004W or 3004V], [3159 or 3201 or 3202], [jour major or approved IDIM major or ICP major or BIS major]] or [professional jour track, instr consent];

Meets CLE req of Writing Intensive;

Instructor: Sichko, Martha Jones

Description: Student may contact the instructor or department for information.

JOUR 3279W Public Relations Writing and Campaign Tactics

A-F only, 3 credit(s); prereq [3004W or 3004V], [3159 or 3201 or 3202], [jour major or approved IDIM major or ICP major or BIS major]] or [professional jour track, instr consent];

Meets CLE req of Writing Intensive;

Instructor: Keiser, Eva Eileen

Description: Student may contact the instructor or department for information.

JOUR 3321 Basic Media Graphics

A-F only, 3 credit(s); prereq [3004V or 3004W or Concurrent registration is required (or allowed) in 3004W], [jour major or approved IDIM major or ICP major or BIS major];

Instructor: Kelley, Debra S

Description: This lab-based course gives students an introduction to the basic principles of graphic design. Students are challenged to develop their own aesthetic sense and graphic design skills through the study and creation of effective communication tools. Students are expected to work through study guides in class and on their own to develop software technology skills necessary to complete assignments. Hands-on projects give students the opportunity to develop their skills in designing and producing traditional print publications and new media.

Style: 10% Lecture, 10% Discussion, 80% Laboratory. project-based course - 5 projects plus software tutorials

Grading: 16% mid exam, 80% special projects, 4% class participation.

Exam Format: multiple choice

JOUR 3321 Basic Media Graphics

A-F only, 3 credit(s); prereq [3004V or 3004W or Concurrent registration is required (or allowed) in 3004W], [jour major or approved IDIM major or ICP major or BIS major];

Instructor: Martin, Peter Lynn

Description: This class introduces students to the use of Graphics in digital media, students explore _basic_ digital imaging, how we do it, how we repurpose images and a basic investigation of some issues the new media technology brings to the content of our images. We will start with image creation/acquisition, using digital cameras, scanners, both film and flatbed, using Adobe's PhotoShop software to modify the digital images. Assignments include Portrait, font choice, Resume, photo composite and finally, a project that investigates image intent, specifically, how the computer imaging environment affects the student's interpretation of the truth of the image they create. These projects set the tone for undertakings of creative discovery. The class is designed to provide a working knowledge of Adobe PhotoShop and basic aspects of both Quark Xpress or Adobe InDesign and Adobe GoLive programs as a basis to begin exploration of the opportunities that new media technology enables.

Style: 25% Lecture, 10% Discussion, 65% Laboratory.

Grading: 100% special projects.

JOUR 3321 Basic Media Graphics

A-F only, 3 credit(s); prereq [3004V or 3004W or Concurrent registration is required (or allowed) in 3004W], [jour major or approved IDIM major or ICP major or BIS major];

Instructor: Longley,Nance

Description: Student may contact the instructor or department for information.

JOUR 3451 Electronic News Writing and Reporting

A-F only, 3 credit(s); prereq [3004W or 3004V], [3101 or 3101H], [jour major or approved IDIM major or ICP major or BIS major];

Instructor: Benson,Dana Richard

Description: Student may contact the instructor or department for information.

JOUR 3552 Internet and Global Society

A-F only, 3 credit(s); prereq Non-jour major or [jour major, course appr on prog plan] or [pre-jour, adviser approval]; Meets CLE req of International Perspect Theme;

Instructor: Wang,Kevin Y

Description: Student may contact the instructor or department for information.

JOUR 3615 History of the Documentary

A-F only, 3 credit(s); prereq Non-jour major or jour major with course appr on prog plan or pre-jour with adviser approval;

Instructor: Schwartz,Dona

Description: Student may contact the instructor or department for information.

JOUR 3741 People of Color and the Mass Media

A-F only, 3 credit(s); prereq Non-jour major or [jour major, course appr on prog plan] or [pre-jour, adviser approval]; Meets CLE req of Cultural Diversity Theme;

Instructor: Jackson,Sarah J

Description: Student may contact the instructor or department for information.

JOUR 3745 Mass Media and Popular Culture

A-F only, 3 credit(s); prereq Non-jour major or [jour major, course appr on prog plan] or [pre-jour, adviser approval]; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;

Instructor: Kim,Sumi

Description: Student may contact the instructor or department for information.

JOUR 3745 Mass Media and Popular Culture

A-F only, 3 credit(s); prereq Non-jour major or [jour major, course appr on prog plan] or [pre-jour, adviser approval]; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;

Instructor: Shelton,Ashleigh Kayleen

Description: Student may contact the instructor or department for information.

JOUR 3771 Mass Media Ethics: Moral Reasoning and Case Studies

A-F only, 3 credit(s); prereq Non-jour major or [jour major, course appr on prog plan] or [pre-jour, adviser approval]; Meets CLE req of Citizenship/Publ Ethics Theme;

Instructor: 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 3776 Mass Communication Law

A-F only, 3 credit(s); prereq Jour major or jour minor or approved IDIM major or ICP major or BIS major or instr consent ;

Instructor: 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 3796 Mass Media and Politics

A-F only, 3 credit(s); prereq Non-jour major or jour major with course appr on prog plan or pre-jour with adviser approval; Meets CLE req of Citizenship/Publ Ethics Theme;

Instructor: Squires,Catherine R

Description: Student may contact the instructor or department for information.

JOUR 3993 Directed Study

A-F only, 1-3 credit(s), max credits 6, 6 completions allowed; prereq [jour major or jour minor or approved IDIM major or ICP major or BIS major], instr consent, dept consent, college consent;

Instructor: Doyle,Kenneth Owen

Description: Student may contact the instructor or department for information.

JOUR 3993 Directed Study

A-F only, 1-3 credit(s), max credits 6, 6 completions allowed; prereq [jour major or jour minor or approved IDIM major or ICP major or BIS major], instr consent, dept consent, college consent;

Instructor: Sullivan,Dan

Description: Student may contact the instructor or department for information.

JOUR 3993 Directed Study

A-F only, 1-3 credit(s), max credits 6, 6 completions allowed; prereq [jour major or jour minor or approved IDIM major or ICP major or BIS major], instr consent, dept consent, college consent;

Instructor: Ison,Christopher John

Description: Student may contact the instructor or department for information.

JOUR 3993 Directed Study

A-F only, 1-3 credit(s), max credits 6, 6 completions allowed; prereq [jour major or jour minor or approved IDIM major or ICP major or BIS major], instr consent, dept consent, college consent;

Instructor: Faber,Ronald J

Description: Student may contact the instructor or department for information.

JOUR 3993 Directed Study

A-F only, 1-3 credit(s), max credits 6, 6 completions allowed;
prereq [jour major or jour minor or approved IDIM major or ICP major or BIS major], instr consent, dept consent, college consent;

Instructor: Schwartz,Dona

Description: Student may contact the instructor or department for information.

JOUR 3993 Directed Study

A-F only, 1-3 credit(s), max credits 6, 6 completions allowed;
prereq [jour major or jour minor or approved IDIM major or ICP major or BIS major], instr consent, dept consent, college consent;

Instructor: 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;
prereq [jour major or jour minor or approved IDIM major or ICP major or BIS major], instr consent, dept consent, college consent;

Instructor: Wackman,Daniel Bruce

Description: Student may contact the instructor or department for information.

JOUR 3993 Directed Study

A-F only, 1-3 credit(s), max credits 6, 6 completions allowed;
prereq [jour major or jour minor or approved IDIM major or ICP major or BIS major], instr consent, dept consent, college consent;

Instructor: Hansen,Kathleen Ann

Description: Student may contact the instructor or department for information.

JOUR 3993 Directed Study

A-F only, 1-3 credit(s), max credits 6, 6 completions allowed;
prereq [jour major or jour minor or approved IDIM major or ICP major or BIS major], instr consent, dept consent, college consent;

Instructor: Leighton,Gordon

Description: Student may contact the instructor or department for information.

JOUR 3993 Directed Study

A-F only, 1-3 credit(s), max credits 6, 6 completions allowed;
prereq [jour major or jour minor or approved IDIM major or ICP major or BIS major], instr consent, dept consent, college consent;

Instructor: Golden,Gayle Celeste

Description: Student may contact the instructor or department for information.

JOUR 3993 Directed Study

A-F only, 1-3 credit(s), max credits 6, 6 completions allowed;
prereq [jour major or jour minor or approved IDIM major or ICP major or BIS major], instr consent, dept consent, college consent;

Instructor: Kirtley,Jane E

Description: Student may contact the instructor or department for information.

JOUR 3993 Directed Study

A-F only, 1-3 credit(s), max credits 6, 6 completions allowed;
prereq [jour major or jour minor or approved IDIM major or ICP major or BIS major], instr consent, dept consent, college consent;

Instructor: Southwell,Brian G

Description: Student may contact the instructor or department for information.

JOUR 3993 Directed Study

A-F only, 1-3 credit(s), max credits 6, 6 completions allowed;
prereq [jour major or jour minor or approved IDIM major or ICP major or BIS major], instr consent, dept consent, college

consent;

Instructor: Eighmey,John

Description: Student may contact the instructor or department for information.

JOUR 3993 Directed Study

A-F only, 1-3 credit(s), max credits 6, 6 completions allowed;
prereq [jour major or jour minor or approved IDIM major or ICP major or BIS major], instr consent, dept consent, college consent;

Instructor: Huh,Jisu

Description: Student may contact the instructor or department for information.

JOUR 3993 Directed Study

A-F only, 1-3 credit(s), max credits 6, 6 completions allowed;
prereq [jour major or jour minor or approved IDIM major or ICP major or BIS major], instr consent, dept consent, college consent;

Instructor: 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;
prereq [jour major or jour minor or approved IDIM major or ICP major or BIS major], instr consent, dept consent, college consent;

Instructor: Squires,Catherine R

Description: Student may contact the instructor or department for information.

JOUR 3993 Directed Study

A-F only, 1-3 credit(s), max credits 6, 6 completions allowed;
prereq [jour major or jour minor or approved IDIM major or ICP major or BIS major], instr consent, dept consent, college consent;

Instructor: 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;
prereq [jour major or jour minor or approved IDIM major or ICP major or BIS major], instr consent, dept consent, college consent;

Instructor: Thiel-Stern,Shayla

Description: Student may contact the instructor or department for information.

JOUR 3996 Directed Internship

S-N only, 1 credit(s), max credits 3, 3 completions allowed;
prereq Jour major, dept consent ;

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;
prereq Jour major, dept consent ;

Instructor: Leighton,Gordon

Description: To enroll in this one-term internship program, obtain an Internship Verification Form from the Undergraduate Studies (UGS) office at the SJMC in Murphy Hall. Complete the form and have your internship employer sign it, then return it to the UGS office up to mid-term of the semester (or start of summer semester). Office staff will give you a course packet and information about class meetings. This internship program can be repeated up to three times in different semesters.

Grading: 100% reports/papers.

JOUR 3996 Directed Internship

S-N only, 1 credit(s), max credits 3, 3 completions allowed;
prereq Jour major, dept consent ;

Instructor: Golden,Gayle Celeste

Description: Student may contact the instructor or department

for information.

JOUR 3996 Directed Internship

S-N only, 1 credit(s), max credits 3, 3 completions allowed; prereq Jour major, dept consent ;

Instructor: Johnson,Jennifer M

Description: Student may contact the instructor or department for information.

**JOUR 4193 Walter H Brovald and John Cameron Sim
Community Newspaper Practicum**

A-F only, 3 credit(s); prereq [3004W or 3004V], [3101 or 3101H or 3201], [jour major or approved IDIM or BIS or ICP];

Instructor: Schutz, Lee Ann

Description:

Grading: 40% reflection paper, 30% class participation, 30% other evaluation. 30 percent of the intern's grade will be determined by the publication editor to which she or he is assigned.

JOUR 4242 Advertising Portfolio Development

A-F only, 3 credit(s); prereq [3004W or 3004V], 3201, 3241, [jour major or approved IDIM or ICP or BIS];

Instructor: Johnson,Jennifer M

Description: This course introduces students to advertising creative development and conceptual thinking. Students will work in teams that include account planners, copywriters, and art directors. They will develop creative strategy briefs and present ideas based on their strategies. At the end of the term, successful students will be able to apply practical creativity to advertising ideas and will have a basic understanding of how to put a book together to get a job in advertising.

Style: 30% Lecture, 20% Laboratory. This class is highly interactive. Students must contribute to class creative exercises and assignments during each meeting.

Grading: A midterm 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 4259 Cases in Strategic Planning and Thinking

A-F only, 3 credit(s); prereq [3004W or 3004V], [3159 or 3201 or 3202], 3251, [jour major or approved IDIM major or ICP major or BIS major];

Instructor: Nelson,Lynn Ingrid

Description: Student may contact the instructor or department for information.

JOUR 4259 Cases in Strategic Planning and Thinking

A-F only, 3 credit(s); prereq [3004W or 3004V], [3159 or 3201 or 3202], 3251, [jour major or approved IDIM major or ICP major or BIS major];

Instructor: Kaiser,Kent Luther

Description: Student may contact the instructor or department for information.

JOUR 4259 Cases in Strategic Planning and Thinking

A-F only, 3 credit(s); prereq [3004W or 3004V], [3159 or 3201 or 3202], 3251, [jour major or approved IDIM major or ICP major or BIS major];

Instructor: Saukko,Ben

Description: Student may contact the instructor or department for information.

JOUR 4259 Cases in Strategic Planning and Thinking

A-F only, 3 credit(s); prereq [3004W or 3004V], [3159 or 3201 or 3202], 3251, [jour major or approved IDIM major or ICP major or BIS major];

Instructor: Leighton,Gordon

Description: A course in strategic communications management with the objective of enabling students to develop their abilities in brand communication, issue identification, research, analysis, strategy development, and tactical campaign implementation -- as well as development of presentation skills to convey those abilities. This course is heavily oriented toward implementing and managing professional communication campaigns using a case

study perspective.

Style: 30% Lecture, 60% Discussion. Student presentations
Grading: 25% mid exam, 25% final exam, 25% reports/papers, 25% special projects.

Exam Format: multiple choice, T/F, short answer

JOUR 4259 Cases in Strategic Planning and Thinking

A-F only, 3 credit(s); prereq [3004W or 3004V], [3159 or 3201 or 3202], 3251, [jour major or approved IDIM major or ICP major or BIS major];

Instructor: Kucharski,Matthew John

Description: A comprehensive review of current and classic case studies in strategic communications planning and thinking. Covers a wide range of communications disciplines, scenarios and industries.

JOUR 4259 Cases in Strategic Planning and Thinking

A-F only, 3 credit(s); prereq [3004W or 3004V], [3159 or 3201 or 3202], 3251, [jour major or approved IDIM major or ICP major or BIS major];

Instructor: Reid,Victoria Jane

Description: Student may contact the instructor or department for information.

JOUR 4261 Advertising: Media Strategy

A-F only, 3 credit(s); prereq [3004W or 3004V], [3159 or 3201 or 3202], 3251, [jour major or approved IDIM major or ICP major or BIS major];

Instructor: Herzog,Earl Alphonse

Description: Student may contact the instructor or department for information.

JOUR 4263 Strategic Communication Campaigns

A-F only, 4 credit(s); prereq [3004W or 3004V], [3201 or 3202], 3251, [3179 or 3241 or 3279 or 4159 or 4259 or 4261], MKTG 3001, [jour major or approved IDIM major or ICP major or BIS major];

Instructor: Weitz,Carol Ruth

Description: An in-depth look at all aspects of strategic campaign development, culminating in the development of a strategically sound communications campaign. Emphasis on "real life" examples of campaigns, their creation and development. All essentials of developing strategic communication campaigns are covered, including advertising strategy and positioning, developing creative, consumer research, planning and setting objectives, media strategies, public relations programs, promotion, and targeting and segmentation. Course involves team work, multi-media presentations and class discussion.

JOUR 4263 Strategic Communication Campaigns

A-F only, 4 credit(s); prereq [3004W or 3004V], [3201 or 3202], 3251, [3179 or 3241 or 3279 or 4159 or 4259 or 4261], MKTG 3001, [jour major or approved IDIM major or ICP major or BIS major];

Instructor: Moorhouse,Bruce Thompson

Description: Student may contact the instructor or department for information.

JOUR 4274W Advertising in Society

**A-F only, 3 credit(s); prereq Jour major or mass comm minor or approved IDIM major or ICP major or BIS major
Credit will not be granted if the student has already completed Jour 4274; Meets CLE req of Writing Intensive;**

Instructor: Wackman,Daniel Bruce

Description: Advertising in Society introduces students to a variety of issues regarding ways in which advertising is linked to society. It examines these issues from several perspectives: social, cultural, economic, legal, and ethical. The course differs from professionally-oriented classes which study advertising from the perspective of a professional attempting to develop effective advertising. As a writing intensive course, Advertising in Society helps students learn how to conduct thorough analyses of issues, develop positions on issues, and present coherent and convincing arguments for positions they have taken. We begin the course with a four week section focusing on one issue

involving the relationship between advertising and society. The issue chosen illustrates the complex, multifaceted nature of advertising--society issues. The next six weeks focus on the role of advertising in the economic system and the ways in which advertising is regulated to try to insure fair competition and to protect consumers. The last five weeks focus on social criticisms of advertising and the social responsibilities of advertising practitioners.

Style: 35% Lecture, 65% Discussion.

Grading: 24% mid exam, 24% final exam, 43% reports/papers, 6% special projects, 3% class participation.

Exam Format: multiple choice, short answer, and essay

JOUR 4302 Electronic Photojournalism

A-F only, 3 credit(s); prereq [3004W or 3004V], 3102, [jour major or approved IDIM major or ICP major or BIS major];

Instructor: Zerby, Mike

Description: Jour 4302 is a basic skills course, designed to teach a journalism student the fundamentals of electronic photojournalism as practiced by newsrooms across many forms of media. The course will: 1) create a foundation for understanding the historical, technical, aesthetic and ethical development of journalistic photography. 2) discuss and practice the principles of communication as embodied in the profession of photojournalism, including how to: a) conceptualize and plan photo shoots, photo stories, and essays. b) research story ideas, develop shooting strategies, gain access to subjects. c) structure and present visual narratives in print 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 4452 Capstone: Electronic Newscast Producing

A-F only, 3 credit(s); prereq [3004W or 3004V], [3101 or 3101H], 3121, 3451, [jour major or approved IDIM major or ICP major or BIS major];

Instructor: Benson, Dana Richard

Description: Student may contact the instructor or department for information.

JOUR 4721 Mass Media and U.S. Society

A-F only, 3 credit(s); prereq Non-jour major or jour major with course appr on prog plan or pre-jour with adviser approval;

Instructor: Sullivan, 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); prereq Honors, [non-jour major or [jour major, course appr on prog plan] or [pre-jour, adviser approval]];

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 can 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 4731H Honors: Senior Seminar

A-F only, 1 credit(s); prereq Jour major, honors;

Instructor: Hansen, Kathleen Ann

Description: Student may contact the instructor or department for information.

JOUR 4990 Special Topics in Mass Communication:

Professional: Covering the Arts: Dance Writing Demystified

A-F only, 2 credit(s), max credits 6; prereq Jour major or approved IDIM major or ICP major or BIS major;

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; prereq Jour major;

Instructor: Golden, Gayle Celeste

Description: Student may contact the instructor or department for information.

JOUR 4993H Honors: Thesis

A-F only, 1-3 credit(s), max credits 3, 1 completion allowed; prereq Jour major, honors div regis, college consent, dept consent, instr consent;

Instructor: Doyle, Kenneth Owen

Description: Student may contact the instructor or department for information.

JOUR 4993H Honors: Thesis

A-F only, 1-3 credit(s), max credits 3, 1 completion allowed; prereq Jour major, honors div regis, college consent, dept consent, instr consent;

Instructor: Sullivan, Dan

Description: Student may contact the instructor or department for information.

JOUR 4993H Honors: Thesis

A-F only, 1-3 credit(s), max credits 3, 1 completion allowed; prereq Jour major, honors div regis, college consent, dept consent, instr consent;

Instructor: Ison, Christopher John

Description: Student may contact the instructor or department for information.

JOUR 4993H Honors: Thesis

A-F only, 1-3 credit(s), max credits 3, 1 completion allowed; prereq Jour major, honors div regis, college consent, dept consent, instr consent;

Instructor: Pedelty,Mark Holmes

Description: Student may contact the instructor or department for information.

JOUR 4993H Honors: Thesis

A-F only, 1-3 credit(s), max credits 3, 1 completion allowed; prereq Jour major, honors div regis, college consent, dept consent, instr consent;

Instructor: Faber,Ronald J

Description: Student may contact the instructor or department for information.

JOUR 4993H Honors: Thesis

A-F only, 1-3 credit(s), max credits 3, 1 completion allowed; prereq Jour major, honors div regis, college consent, dept consent, instr consent;

Instructor: Schwartz,Dona

Description: Student may contact the instructor or department for information.

JOUR 4993H Honors: Thesis

A-F only, 1-3 credit(s), max credits 3, 1 completion allowed; prereq Jour major, honors div regis, college consent, dept consent, instr consent;

Instructor: Tims,Albert R

Description: Student may contact the instructor or department for information.

JOUR 4993H Honors: Thesis

A-F only, 1-3 credit(s), max credits 3, 1 completion allowed; prereq Jour major, honors div regis, college consent, dept consent, instr consent;

Instructor: Wackman,Daniel Bruce

Description: Student may contact the instructor or department for information.

JOUR 4993H Honors: Thesis

A-F only, 1-3 credit(s), max credits 3, 1 completion allowed; prereq Jour major, honors div regis, college consent, dept consent, instr consent;

Instructor: Hansen,Kathleen Ann

Description: Student may contact the instructor or department for information.

JOUR 4993H Honors: Thesis

A-F only, 1-3 credit(s), max credits 3, 1 completion allowed; prereq Jour major, honors div regis, college consent, dept consent, instr consent;

Instructor: Leighton,Gordon

Description: Student may contact the instructor or department for information.

JOUR 4993H Honors: Thesis

A-F only, 1-3 credit(s), max credits 3, 1 completion allowed; prereq Jour major, honors div regis, college consent, dept consent, instr consent;

Instructor: Golden,Gayle Celeste

Description: Student may contact the instructor or department for information.

JOUR 4993H Honors: Thesis

A-F only, 1-3 credit(s), max credits 3, 1 completion allowed; prereq Jour major, honors div regis, college consent, dept consent, instr consent;

Instructor: Kirtley,Jane E

Description: Student may contact the instructor or department for information.

JOUR 4993H Honors: Thesis

A-F only, 1-3 credit(s), max credits 3, 1 completion allowed; prereq Jour major, honors div regis, college consent, dept consent, instr consent;

Instructor: Southwell,Brian G

Description: Student may contact the instructor or department for information.

JOUR 4993H Honors: Thesis

A-F only, 1-3 credit(s), max credits 3, 1 completion allowed; prereq Jour major, honors div regis, college consent, dept consent, instr consent;

Instructor: Eighmey,John

Description: Student may contact the instructor or department for information.

JOUR 4993H Honors: Thesis

A-F only, 1-3 credit(s), max credits 3, 1 completion allowed; prereq Jour major, honors div regis, college consent, dept consent, instr consent;

Instructor: Huh,Jisu

Description: Student may contact the instructor or department for information.

JOUR 4993H Honors: Thesis

A-F only, 1-3 credit(s), max credits 3, 1 completion allowed; prereq Jour major, honors div regis, college consent, dept consent, instr consent;

Instructor: Yzer,Marco

Description: Student may contact the instructor or department for information.

JOUR 4993H Honors: Thesis

A-F only, 1-3 credit(s), max credits 3, 1 completion allowed; prereq Jour major, honors div regis, college consent, dept consent, instr consent;

Instructor: Squires,Catherine R

Description: Student may contact the instructor or department for information.

JOUR 4993H Honors: Thesis

A-F only, 1-3 credit(s), max credits 3, 1 completion allowed; prereq Jour major, honors div regis, college consent, dept consent, instr consent;

Instructor: Sanders,Amy Kristin

Description: Student may contact the instructor or department for information.

JOUR 4993H Honors: Thesis

A-F only, 1-3 credit(s), max credits 3, 1 completion allowed; prereq Jour major, honors div regis, college consent, dept consent, instr consent;

Instructor: Thiel-Stern,Shayla

Description: Student may contact the instructor or department for information.

JOUR 5131 Capstone: In-Depth Reporting

A-F only, 3 credit(s); prereq [[3004W or 3004V], [3101 or 3101H, 3121], [jour major or approved IDIM major or ICP major or BIS major]] or grad student credit will not be granted if credit received for: 4131;

Instructor: Mc Enroe,Paul Joseph

Description: Student may contact the instructor or department for information.

JOUR 5174 Capstone: Magazine Editing and Production

A-F only, 4 credit(s); prereq [[[3004W or 3004V], [3101 or 3101H], [3155 or 3173W or 3321 or 4302]], [jour major or approved IDIM major or ICP major or BIS major]] or grad student credit will not be granted if credit received for: 4174;

Instructor: Larsen,Elizabeth F

Description: Student may contact the instructor or department for information.

JOUR 5195 Online Media Creation and Design

A-F only, 3 credit(s); prereq [3004V or 3004W, 3101, 3121, jour major] or instr consent ; Credit will not be granted if credit has been received for: JOUR 8195;

Instructor: Husom,David Harold

Description: Student may contact the instructor or department for information.

JOUR 5251 Psychology of Advertising

A-F only, 3 credit(s); prereq jour maj or min or design comm or graphic pre-design or design comm or graph design or IDIM/ICP/BIS or instr consent ;

Instructor: Faber,Ronald J

Description: Student may contact the instructor or department for information.

JOUR 5501 Communication and Public Opinion

A-F only, 3 credit(s); prereq Non-jour major or jour major with course appr on prog plan or prejour with adviser approval;

Instructor: Doyle,Kenneth Owen

Description: This course is designed to help you become an educated consumer of public opinion polls. We'll pursue this goal through lectures on key aspects of public opinion polling, discussion of controversial topics, practice evaluating and improving a realistic public opinion survey, and writing a term paper about polling "ignored voices" such as gays, migrant workers, homeless people, and under-represented minorities.

Style: 40% Lecture, 40% Discussion. Working on Group Project
Grading: 30% mid exam, 30% term paper, 30% group project, 10% class participation.

Exam Format: Matching, and short essay: define, compare/contrast/etc.

JOUR 5542 Theory-based Health Message Design

A-F only, 3 credit(s); prereq Enrolled in MA in health journalism or grad student or Jour major or mass comm minor or approved IDIM major or ICP major or BIS major or instr consent ;

Instructor: Yzer,Marco

Description: Student may contact the instructor or department for information.

JOUR 5615 History of the Documentary

A-F only, 3 credit(s); prereq Non-jour major or jour major with course appr on prog plan or pre-jour with adviser approval credit will not be granted if credit received for: 4615;

Instructor: Schwartz,Dona

Description: This course examines definitions of and ideas about documentary. Historical factors influencing contemporary documentary practice and aesthetics will be traced. Examples screened and discussed may be drawn from photography, film, or video. The historical scope of the course serves as an aid to the analysis of key ideas; the course does not offer a comprehensive survey of a particular medium.

JOUR 5725 Management of Media Organizations

A-F only, 3 credit(s); prereq Non-jour major or jour major with course appr on prog plan or prejour with adviser approval;

Instructor: Sullivan,Dan

Description: This course is designed to expose journalism majors and other interested students, both graduate and undergraduate, to the concepts and principles of management as they uniquely apply to media organizations; to teach students about the key management issues facing media organizations today. Course time is divided equally between operational issues and business strategy issues. Particular attention is paid to the impact of the Internet and to current real world developments. The course also integrates a wide scope of literature from the fields of business, psychology, mass media and law. A key part of student work will be a group project analyzing a real issue at a Twin Cities media company.

Style: 50% Lecture, 30% Discussion. Case studies

Grading: 20% mid exam, 20% final exam, 20% reports/papers, 30% special projects, 10% class participation.

Exam Format: short answer and essay

JOUR 5777 Contemporary Problems in Freedom of Speech and Press

A-F only, 3 credit(s); prereq Jour major or jour minor or approved IDIM major or ICP major or BIS major; Credit will not be granted if credit has been received for: LAW 6030;

Instructor: Kirtley,Jane E

Description: Course objective: to consider whether and how growing concerns about privacy and national security will affect traditional First Amendment legal theories. We will read and analyze significant court decisions and statutes, as well as some international initiatives, and consider their impact on U.S. law governing prior restraints, newsgathering and dissemination, access to courts and government information, and government regulation of electronic communications. This course is aimed at upper-level undergraduates and graduate students with a background in First Amendment, media and/or constitutional law (such as JOUR 3776 or equivalent). Course includes instruction in basic legal research techniques. Thorough preparation and class participation is required of all students in this seminar-format course.

Style: 10% Lecture, 75% Discussion. Student presentations of papers at the end of the semester.

Grading: 15% mid exam, 50% reports/papers, 10% in-class presentation, 25% class participation.

Exam Format: Essay

JOUR 5993 Directed Study

A-F only, 1-3 credit(s), max credits 6, 6 completions allowed; prereq [Jour major or jour minor or approved IDIM major or ICP major or BIS major], GPA of at least 3.00, college consent , dept consent , instr consent ;

Instructor: Doyle,Kenneth Owen

Description: Student may contact the instructor or department for information.

JOUR 5993 Directed Study

A-F only, 1-3 credit(s), max credits 6, 6 completions allowed; prereq [Jour major or jour minor or approved IDIM major or ICP major or BIS major], GPA of at least 3.00, college consent , dept consent , instr consent ;

Instructor: Sullivan,Dan

Description: Student may contact the instructor or department for information.

JOUR 5993 Directed Study

A-F only, 1-3 credit(s), max credits 6, 6 completions allowed; prereq [Jour major or jour minor or approved IDIM major or ICP major or BIS major], GPA of at least 3.00, college consent , dept consent , instr consent ;

Instructor: 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; prereq [Jour major or jour minor or approved IDIM major or ICP major or BIS major], GPA of at least 3.00, college consent , dept consent , instr consent ;

Instructor: Pedelty,Mark Holmes

Description: Student may contact the instructor or department for information.

JOUR 5993 Directed Study

A-F only, 1-3 credit(s), max credits 6, 6 completions allowed; prereq [Jour major or jour minor or approved IDIM major or ICP major or BIS major], GPA of at least 3.00, college consent , dept consent , instr consent ;

Instructor: Faber,Ronald J

Description: Student may contact the instructor or department for information.

JOUR 5993 Directed Study

A-F only, 1-3 credit(s), max credits 6, 6 completions allowed; prereq [Jour major or jour minor or approved IDIM major or ICP major or BIS major], GPA of at least 3.00, college consent , dept consent , instr consent ;

Instructor: Schwartz,Dona

Description: Student may contact the instructor or department

for information.

JOUR 5993 Directed Study

A-F only, 1-3 credit(s), max credits 6, 6 completions allowed;
prereq [Jour major or jour minor or approved IDIM major or ICP major or BIS major], GPA of at least 3.00, college consent , dept consent , instr consent ;
Instructor: Tims,Albert R
Description: Student may contact the instructor or department for information.

JOUR 5993 Directed Study

A-F only, 1-3 credit(s), max credits 6, 6 completions allowed;
prereq [Jour major or jour minor or approved IDIM major or ICP major or BIS major], GPA of at least 3.00, college consent , dept consent , instr consent ;
Instructor: Wackman,Daniel Bruce
Description: Student may contact the instructor or department for information.

JOUR 5993 Directed Study

A-F only, 1-3 credit(s), max credits 6, 6 completions allowed;
prereq [Jour major or jour minor or approved IDIM major or ICP major or BIS major], GPA of at least 3.00, college consent , dept consent , instr consent ;
Instructor: Hansen,Kathleen Ann
Description: Student may contact the instructor or department for information.

JOUR 5993 Directed Study

A-F only, 1-3 credit(s), max credits 6, 6 completions allowed;
prereq [Jour major or jour minor or approved IDIM major or ICP major or BIS major], GPA of at least 3.00, college consent , dept consent , instr consent ;
Instructor: Leighton,Gordon
Description: Student may contact the instructor or department for information.

JOUR 5993 Directed Study

A-F only, 1-3 credit(s), max credits 6, 6 completions allowed;
prereq [Jour major or jour minor or approved IDIM major or ICP major or BIS major], GPA of at least 3.00, college consent , dept consent , instr consent ;
Instructor: Golden,Gayle Celeste
Description: Student may contact the instructor or department for information.

JOUR 5993 Directed Study

A-F only, 1-3 credit(s), max credits 6, 6 completions allowed;
prereq [Jour major or jour minor or approved IDIM major or ICP major or BIS major], GPA of at least 3.00, college consent , dept consent , instr consent ;
Instructor: Kirtley,Jane E
Description: Student may contact the instructor or department for information.

JOUR 5993 Directed Study

A-F only, 1-3 credit(s), max credits 6, 6 completions allowed;
prereq [Jour major or jour minor or approved IDIM major or ICP major or BIS major], GPA of at least 3.00, college consent , dept consent , instr consent ;
Instructor: Southwell,Brian G
Description: Student may contact the instructor or department for information.

JOUR 5993 Directed Study

A-F only, 1-3 credit(s), max credits 6, 6 completions allowed;
prereq [Jour major or jour minor or approved IDIM major or ICP major or BIS major], GPA of at least 3.00, college consent , dept consent , instr consent ;
Instructor: Eighmey,John
Description: Student may contact the instructor or department for information.

JOUR 5993 Directed Study

A-F only, 1-3 credit(s), max credits 6, 6 completions allowed;
prereq [Jour major or jour minor or approved IDIM major or ICP major or BIS major], GPA of at least 3.00, college consent , dept consent , instr consent ;
Instructor: 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;
prereq [Jour major or jour minor or approved IDIM major or ICP major or BIS major], GPA of at least 3.00, college consent , dept consent , instr consent ;
Instructor: Yzer,Marco
Description: Student may contact the instructor or department for information.

JOUR 5993 Directed Study

A-F only, 1-3 credit(s), max credits 6, 6 completions allowed;
prereq [Jour major or jour minor or approved IDIM major or ICP major or BIS major], GPA of at least 3.00, college consent , dept consent , instr consent ;
Instructor: Squires,Catherine R
Description: Student may contact the instructor or department for information.

JOUR 5993 Directed Study

A-F only, 1-3 credit(s), max credits 6, 6 completions allowed;
prereq [Jour major or jour minor or approved IDIM major or ICP major or BIS major], GPA of at least 3.00, college consent , dept consent , instr consent ;
Instructor: Sanders,Amy Kristin
Description: Student may contact the instructor or department for information.

JOUR 5993 Directed Study

A-F only, 1-3 credit(s), max credits 6, 6 completions allowed;
prereq [Jour major or jour minor or approved IDIM major or ICP major or BIS major], GPA of at least 3.00, college consent , dept consent , instr consent ;
Instructor: Thiel-Stern,Shayla
Description: Student may contact the instructor or department for information.

JOUR 8001 Studies in Mass Communication I

A-F only, 3 credit(s);
Instructor: Faber,Ronald J
Description: Student may contact the instructor or department for information.

JOUR 8002 Studies in Mass Communication II

A-F only, 3 credit(s); prereq 8001;
Instructor: Squires,Catherine R
Description: Student may contact the instructor or department for information.

JOUR 8193 Capstone: Health Journalism and Communication

A-F only, 4 credit(s); prereq Enrollment in MA in health journalism or instr consent ;
Instructor: Finnegan Jr,John Robert
Description: Student may contact the instructor or department for information.

JOUR 8193 Capstone: Health Journalism and Communication

A-F only, 4 credit(s); prereq Enrollment in MA in health journalism or instr consent ;
Instructor: Sullivan,Dan
Description: Student may contact the instructor or department for information.

JOUR 8193 Capstone: Health Journalism and Communication

A-F only, 4 credit(s); prereq Enrollment in MA in health journalism or instr consent ;
Instructor: Luepker MD,Russell V
Description: Student may contact the instructor or department for information.

for information.

JOUR 8193 Capstone: Health Journalism and Communication
A-F only, 4 credit(s); prereq Enrollment in MA in health journalism or instr consent ;
Instructor: Southwell,Brian G
Description: Student may contact the instructor or department for information.

JOUR 8195 Seminar: Online Media Creation and Design
A-F only, 3 credit(s); prereq Health journalism MA grad student or instr consent ; Credit will not be granted if credit has been received for: JOUR 5195H;
Instructor: Husom,David Harold
Description: Student may contact the instructor or department for information.

JOUR 8200 Communication Strategy Research in Rapidly Changing and Complex Media Environments
A-F only, 3 credit(s); prereq Strat Comm MA grad major;
Instructor: Eighmey,John
Description: Student may contact the instructor or department for information.

JOUR 8201 Factors Affecting Communication Strategy
A-F only, 3 credit(s); prereq Strat Comm MA grad major;
Instructor: Leighton,Gordon
Description: Student may contact the instructor or department for information.

JOUR 8204 Measuring the Effectiveness of Strategic Communication Campaigns
A-F only, 3 credit(s); prereq 8203, Strat Comm MA grad major;
Instructor: LaMarre,Heather Lyn
Description: Student may contact the instructor or department for information.

JOUR 8502 Seminar: Multi-method research in Mass Communication
A-F only, 3 credit(s); prereq 8501, [EPsy 5260 or equiv or concurrent enrollment EPsy 5260];
Instructor: Huh,Jisu
Description: Student may contact the instructor or department for information.

JOUR 8602 Seminar: History of Mass Communication
A-F only, 3 credit(s); prereq 5601;
Instructor: Dell'Orto,Giovanna
Description: Student may contact the instructor or department for information.

JOUR 8990 Special Problems in Mass Communication: Special Problem in Mass Comm: Political Communic
A-F only, 3 credit(s), max credits 12, 4 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;
prereq Grad mass comm major or minor, instr consent, dept consent;
Instructor: Doyle,Kenneth Owen
Description: Student may contact the instructor or department for information.

JOUR 8993 Directed Study
A-F only, 1-6 credit(s), max credits 6, 6 completions allowed;
prereq Grad mass comm major or minor, instr consent, dept consent;
Instructor: Sullivan,Dan
Description: Student may contact the instructor or department for information.

JOUR 8993 Directed Study
A-F only, 1-6 credit(s), max credits 6, 6 completions allowed;
prereq Grad mass comm major or minor, instr consent, dept consent;
Instructor: Ison,Christopher John
Description: Student may contact the instructor or department for information.

JOUR 8993 Directed Study
A-F only, 1-6 credit(s), max credits 6, 6 completions allowed;
prereq Grad mass comm major or minor, instr consent, dept consent;
Instructor: Pedelty,Mark Holmes
Description: Student may contact the instructor or department for information.

JOUR 8993 Directed Study
A-F only, 1-6 credit(s), max credits 6, 6 completions allowed;
prereq Grad mass comm major or minor, instr consent, dept consent;
Instructor: Dell'Orto,Giovanna
Description: Student may contact the instructor or department for information.

JOUR 8993 Directed Study
A-F only, 1-6 credit(s), max credits 6, 6 completions allowed;
prereq Grad mass comm major or minor, instr consent, dept consent;
Instructor: Faber,Ronald J
Description: Student may contact the instructor or department for information.

JOUR 8993 Directed Study
A-F only, 1-6 credit(s), max credits 6, 6 completions allowed;
prereq Grad mass comm major or minor, instr consent, dept consent;
Instructor: Schwartz,Dona
Description: Student may contact the instructor or department for information.

JOUR 8993 Directed Study
A-F only, 1-6 credit(s), max credits 6, 6 completions allowed;
prereq Grad mass comm major or minor, instr consent, dept consent;
Instructor: Tims,Albert R
Description: Student may contact the instructor or department for information.

JOUR 8993 Directed Study
A-F only, 1-6 credit(s), max credits 6, 6 completions allowed;
prereq Grad mass comm major or minor, instr consent, dept consent;
Instructor: Wackman,Daniel Bruce
Description: Student may contact the instructor or department for information.

JOUR 8993 Directed Study
A-F only, 1-6 credit(s), max credits 6, 6 completions allowed;
prereq Grad mass comm major or minor, instr consent, dept consent;
Instructor: Hansen,Kathleen Ann
Description: Student may contact the instructor or department for information.

JOUR 8993 Directed Study
A-F only, 1-6 credit(s), max credits 6, 6 completions allowed;
prereq Grad mass comm major or minor, instr consent, dept consent;
Instructor: Leighton,Gordon
Description: Student may contact the instructor or department for information.

JOUR 8993 Directed Study
A-F only, 1-6 credit(s), max credits 6, 6 completions allowed;
prereq Grad mass comm major or minor, instr consent, dept

consent;

Instructor: 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; prereq Grad mass comm major or minor, instr consent, dept consent;

Instructor: Kirtley, Jane E

Description: Student may contact the instructor or department for information.

JOUR 8993 Directed Study

A-F only, 1-6 credit(s), max credits 6, 6 completions allowed; prereq Grad mass comm major or minor, instr consent, dept consent;

Instructor: Southwell, Brian G

Description: Student may contact the instructor or department for information.

JOUR 8993 Directed Study

A-F only, 1-6 credit(s), max credits 6, 6 completions allowed; prereq Grad mass comm major or minor, instr consent, dept consent;

Instructor: Eighmey, John

Description: Student may contact the instructor or department for information.

JOUR 8993 Directed Study

A-F only, 1-6 credit(s), max credits 6, 6 completions allowed; prereq Grad mass comm major or minor, instr consent, dept consent;

Instructor: Huh, Jisu

Description: Student may contact the instructor or department for information.

JOUR 8993 Directed Study

A-F only, 1-6 credit(s), max credits 6, 6 completions allowed; prereq Grad mass comm major or minor, instr consent, dept consent;

Instructor: Yzer, Marco

Description: Student may contact the instructor or department for information.

JOUR 8993 Directed Study

A-F only, 1-6 credit(s), max credits 6, 6 completions allowed; prereq Grad mass comm major or minor, instr consent, dept consent;

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; prereq Grad mass comm major or minor, instr consent, dept consent;

Instructor: Sanders, Amy Kristin

Description: Student may contact the instructor or department for information.

JOUR 8993 Directed Study

A-F only, 1-6 credit(s), max credits 6, 6 completions allowed; prereq Grad mass comm major or minor, instr consent, dept consent;

Instructor: Thiel-Stern, Shayla

Description: Student may contact the instructor or department for information.

KIN 1050 Beginning Military Physical Fitness Training

A-F only, 1 credit(s), max credits 4, 4 completions allowed;

Instructor: Hogan, Timothy M

Description: The Army's model of physical fitness training is used to address five aspects of fitness in the context of running, weight training, strength exercise, circuit training, and team sport activities. Students are organized into groups of similar fitness levels.

KIN 1375 Play Behavior

3 credit(s);

Instructor: Rodgerson, Richard W

Description: The course is designed to provide an introductory overview of play behavior across species, cultures and behavioral settings. Topics include the physical and psychological development of play, sports and games, toy and playground design. Emphasis is on functional relationships between play and learning in educational and recreational environments.

KIN 1871 Survey of Kinesiology, Recreation, and Sport

A-F only, 3 credit(s);

Instructor: Bhalla, Jennifer Anita

Description: Professional practice and disciplinary dimensions of kinesiology, recreation, and sport. Subdisciplines, relevant issues, practical applications.

KIN 3001 Lifetime Fitness and Health

A-F only, 3 credit(s); Meets CLE req of Social Science Core;

Instructor: Ingraham, Stacy Jean

Description: This class addresses current health and wellness issues at the individual, local and global levels. The components of wellness involve; physical, social, emotional, intellectual, spiritual, environmental and financial health. The goal of the class is to develop strategies that improve quality of life throughout 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 Fitness and Health

A-F only, 3 credit(s); Meets CLE req of Social Science Core;

Instructor: Carroll, Christopher K

Description: Overview of health and wellness, including physical, emotional, intellectual, spiritual, social, environmental, and financial health. Societal changes and the influences of these changes on the general health and wellness of diverse populations.

KIN 3001 Lifetime Fitness and Health

A-F only, 3 credit(s); Meets CLE req of Social Science Core;

Instructor: Statt, Eric H

Description: Overview of health and wellness, including physical, emotional, intellectual, spiritual, social, environmental, and financial health. Societal changes and the influences of these changes on the general health and wellness of diverse populations.

KIN 3027 Human Anatomy for Kinesiology Students

A-F only, 3 credit(s);

Instructor: Biltz, George Robert

Description: Introduction to human anatomy. Emphasizes musculoskeletal anatomy germane to athletic training, biomechanics, exercise physiology, motor learning/development.

KIN 3050 Advanced Military Physical Fitness Training

A-F only, 1 credit(s), max credits 4, 4 completions allowed;

prereq 4 cr of 1050 or instr consent ;

Instructor: Hogan, Timothy M

Description: The Army's model of physical fitness training is used to address five aspects of fitness in the context of running, weight training, strength exercise, circuit training, and team sport

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activities. Students are organized into groups of similar fitness levels.

KIN 3112 Introduction to Biomechanics

A-F only, 4 credit(s); prereq [PHYS 1101W or PHYS 1201W or PHYS 1301W or PHYS 1401V], [3027 or 3111 or ANAT 3001 or ANAT 3601 or ANAT 3611 or INMD 3001 or INMD 3601];

Instructor: Konczak PhD, Juergen

Description: This is an introductory course to biomechanics. The lecture portion of the course introduces basic concepts of physics and applies them to the analysis of human motion. The laboratory sessions are designed to provide hands-on experiences and to familiarize students with the array of instrumentations used for biomechanical analysis. Basic knowledge of trigonometry and algebra is needed. This course is required for majors in kinesiology. It is also suitable for physical therapists and students in human physiology and biomedical engineering.

Style: 60% Lecture, 10% Discussion, 30% Laboratory.

Grading: 25% mid exam, 30% final exam, 25% laboratory evaluation, 20% other evaluation. six-week exam

Exam Format: A mix of multiple choice, essay questions

KIN 3113 First Responder for Coaches and Athletic Trainers

A-F only, 3 credit(s);

Instructor: Mc Neil MA, Mary Ann

Description: This nationally recognized curriculum is taught according to the standards of the Department of Transportation (USDOT). It is presented in an interactive and small group format to prepare students to work at the level of First Responder, the first level in the EMS chain of emergency care delivery.

Certification includes: AHA-BLS for Health Care Providers and USDOT First Responder. Includes: Patient assessment, airway management, trauma care and critical thinking.

Style: 30% Lecture, 5% Film/Video, 30% Laboratory, 30% Small Group Activities, 5% Guest Speakers. This course is scenario based learning. Every class will contain 1/2 didactic presentations, 1/2 activities.

Grading: 20% final exam, 20% quizzes, 10% in-class presentation, 25% class participation, 25% laboratory evaluation. Student may not miss >3 class sessions. This will result in dismissal from the course.

Exam Format: Combination written/practical skills demonstration.

KIN 3113 First Responder for Coaches and Athletic Trainers

A-F only, 3 credit(s);

Instructor: Omodt, Steven

Description: This nationally recognized curriculum is taught according to the standards of the Department of Transportation (USDOT). It is presented in an interactive and small group format to prepare students to work at the level of First Responder, the first level in the EMS chain of emergency care delivery.

Certification includes: AHA-BLS for Health Care Providers and USDOT First Responder. Includes: Patient assessment, airway management, trauma care and critical thinking.

KIN 3114 Prevention and Care of Athletic Injuries

A-F only, 3 credit(s); prereq [[3027 or 3111], CEHD student] or instr consent ;

Instructor: Osgood, Chad Thomas

Description: Principles in athletic training for prevention/care of injury. Taping/bracing techniques. Lab.

KIN 3126W Sport and Exercise Psychology

A-F only, 3 credit(s); prereq Kin major or instr consent ;

Meets CLE req of Writing Intensive;

Instructor: Wings, Jim

Description: Introduction to sport psychology/sociology. Factors related to individual/institutional behavior in competitive/recreational athletics, exercise, physical education, and rehabilitation.

KIN 3126W Sport and Exercise Psychology

A-F only, 3 credit(s); prereq Kin major or instr consent ;

Meets CLE req of Writing Intensive;

Instructor: Thul, Chelsey Marie

Description: Introduction to sport psychology/sociology. Factors related to individual/institutional behavior in competitive/recreational athletics, exercise, physical education, and rehabilitation.

KIN 3126W Sport and Exercise Psychology

A-F only, 3 credit(s); prereq Kin major or instr consent ;

Meets CLE req of Writing Intensive;

Instructor: Bolter, Nicole

Description: Introduction to sport psychology/sociology. Factors related to individual/institutional behavior in competitive/recreational athletics, exercise, physical education, and rehabilitation.

KIN 3131W History and Philosophy of Sport

A-F only, 3 credit(s); prereq Kin major or instr consent ;

Meets CLE req of Writing Intensive;

Instructor: Wings, Jim

Description: Introductory description and interpretation of the historical and philosophical development of physical education and sport from primitive societies to 20th century civilization

KIN 3131W History and Philosophy of Sport

A-F only, 3 credit(s); prereq Kin major or instr consent ;

Meets CLE req of Writing Intensive;

Instructor: Kipp, Lindsay Erin

Description: Introductory description and interpretation of the historical and philosophical development of physical education and sport from primitive societies to 20th century civilization

KIN 3132 Introduction to Motor Development Across the Lifespan

A-F only, 3 credit(s); prereq credit will not be granted if credit already received for: Kin 4132 Kin major or instr consent ;

Instructor: Stoffregen, Thomas

Description: Student may contact the instructor or department for information.

KIN 3135 Introduction to Motor Learning and Control

A-F only, 3 credit(s); prereq Kin major or instr consent credit will not be granted if credit already received for: Kin 4135;

Instructor: Wade, Michael G

Description: This course covers the principles that influence the learning of motor skills; the theoretical ideas that have sought to account for both skill learning and the control and coordination of motor behavior. The course consists of a weekly lecture and discussion- quizzes to cover textbook material- an end of semester project and a take-home final exam. In addition to the lectures students will be required to read assigned readings to supplement the textbook.

KIN 3143 Organization and Administration of Sport

A-F only, 3 credit(s); prereq Kin major or instr consent ;

Instructor: Schull, Vicki Denise

Description: How to organize/administer sports/activities. Practice/class organization, meet/game organization, facility/equipment needs, finances.

KIN 3151 Measurement and Evaluation in Kinesiology

A-F only, 3 credit(s); prereq Kin major or instr consent ;

Instructor: Barr-Anderson, Daheia Julina

Description: Introduction to philosophy of measurement/evaluation in physical education, exercise science, sport, and leisure. Test/assessment selection, construction, evaluation, and administration. Interpretation of scores.

KIN 3151 Measurement and Evaluation in Kinesiology

A-F only, 3 credit(s); prereq Kin major or instr consent ;

Instructor: Barr-Anderson, Daheia Julina

Description: Introduction to philosophy of measurement/evaluation in physical education, exercise science, sport, and leisure. Test/assessment selection, construction, evaluation, and administration. Interpretation of scores

KIN 3171 Baseball Coaching Theory and Skill Development
A-F only, 2 credit(s); prereq [Enrolled in coaching program or KIN major or instr consent], skills sufficient for participating in drills/game/match/contest for demonstration/teaching purposes;
Instructor: Bateman,Keith Allen
Description: Coaching theory and skill development necessary to coach baseball.

KIN 3172 Basketball Coaching Theory and Skill Development
A-F only, 2 credit(s); prereq [Enrolled in coaching program or KIN major or instr consent], skills sufficient for participating in drills/game/match/contest for demonstration/teaching purposes;
Instructor: Dewitt,David Francis
Description: Coaching theory and skill development necessary to coach basketball.

KIN 3179 Track and Field Coaching Theory and Skill Development
A-F only, 2 credit(s); prereq [Enrolled in coaching program or KIN major or instr consent], skills sufficient for participating in drills/game/match/contest for demonstration/teaching purposes;
Instructor: Lundstrom,Christopher J
Description: Coaching theory and skill development necessary to coach track and field.

KIN 3184 Lacrosse Coaching Theory and Skill Development
A-F only, 2 credit(s); prereq [Enrolled in coaching program or KIN major or instr consent], skills sufficient for participating in drills/game/match/contest for demonstration/teaching purposes;
Instructor: Holdsworth,Janet Michele
Description: Coaching theory/skill development necessary to coach lacrosse. Proficiency for being able to adequately demonstrate/teach lacrosse skills.

KIN 3327 Teaching Physical Education in the Elementary School
A-F only, 2 credit(s); prereq Elem ed major;
Instructor: Mooers,Nancy Eileen Ro
Description: This course is designed for the elementary (K-8) classroom teacher. The course is activity based and designed to give the classroom teacher the ability to engage their students in age appropriate, energizing activities. Both the classroom and the gymnasium will be used for instruction and micro-teaching. Physical education classes in the gymnasium will be active while experiencing current curriculum and methodology. Emphasis will focus on the importance of regular and active physical education to the total school curriculum, with the inclusion of the health, social, and emotional benefits for the child. Elements of an effective quality physical education program will be included, such as, knowledge about the growing child, management skills,curriculum, lesson plan design, lesson presentation, communication, and age appropriate activities. Techniques to enhance communication, collaboration and integration between the physical education teacher and the classroom teacher , meeting special needs, and community involvement are also regularly addressed.
Style: 25% Lecture, 15% Discussion. Teacher modeling with student participation and student micro-teaching
Grading: 40% reports/papers, 15% special projects, 20% in-class presentation, 25% class participation.
Exam Format: No exams, performance assessment only

KIN 3327 Teaching Physical Education in the Elementary School
A-F only, 2 credit(s); prereq Elem ed major;
Instructor: Heisel,Nancy
Description: Student may contact the instructor or department for information.

KIN 3385 Human Physiology
A-F only, 4 credit(s); prereq [[3027 or 3111 or equiv], kin major] or instr consent ;

Instructor: Biltz,George Robert
Description: Functional/integrative approach organized by level of description, from molecular genetics to dynamic movement/clinical conditions. Cellular mechanisms for major physiological functions. Exercise, fitness, health, growth.

KIN 3505 Intro to Human-Centered Design
3 credit(s); Credit will not be granted if credit has been received for: KIN 5505;
Instructor: Smith,Thomas J
Description: Human-centered design (also termed user-centered design, usability engineering, human engineering or universal design) is an interdisciplinary area of design study that focuses on how design can be tailored to address, accommodate, and meet human expectations, capabilities, needs, and limitations. The rationale for the course is that 'good design makes things work better and last longer, helps make people and business more productive, and reduces discomfort and waste.' The basic premise for the course is that 'good' design means human-centered design (HCD). The course will address this premise from a number of different perspectives, considering HCD of fabricated artifacts, human-computer interfaces, built environments, and complex sociotechnical and organizational systems and environments. The course will offer a diverse mix of lecture, open discussion, design analysis projects, guest speakers, field site visits and evaluations, and differing cultural approaches to design.
Style: 40% Lecture, 20% Discussion. student presentations
Grading: 75% reports/papers, 25% in-class presentation.

KIN 3696 Supervised Practical Experience
S-N only, 1-10 credit(s), max credits 10, 10 completions allowed; prereq instr consent;
Instructor: Ingraham,Stacy Jean
Description: On-the-job supervised practical experience in the fields of sport and exercise under a specialist in a particular area of study or emphasis.

KIN 3696 Supervised Practical Experience
S-N only, 1-10 credit(s), max credits 10, 10 completions allowed; prereq instr consent;
Instructor: Hoffman,Brandi L
Description: On-the-job supervised practical experience in the fields of sport and exercise under a specialist in a particular area of study or emphasis.

KIN 3696 Supervised Practical Experience
S-N only, 1-10 credit(s), max credits 10, 10 completions allowed; prereq instr consent;
Instructor: Bhalla,Jennifer Anita
Description: On-the-job supervised practical experience in the fields of sport and exercise under a specialist in a particular area of study or emphasis.

KIN 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed; prereq instr consent ;
Instructor: Biltz,George Robert
Description: Student-selected clinical or research experience

KIN 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed; prereq instr consent ;
Instructor: Rodgerson,Richard W
Description: Student-selected clinical or research experience

KIN 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed; prereq instr consent ;
Instructor: Buysse,Jo Ann
Description: Student-selected clinical or research experience. Students enrolled in the sport management program cannot use directed readings for any practicum experience.

KIN 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 10 completions

allowed; prereq instr consent ;

Instructor: Lewis,Beth Ann

Description: Student-selected clinical or research experience

KIN 3993 Directed Study in Kinesiology

A-F only, 1-10 credit(s), max credits 10, 10 completions

allowed; prereq instr consent ;

Instructor: LaVoi,Nicole Marie

Description: Student-selected clinical or research experience

KIN 3993 Directed Study in Kinesiology

A-F only, 1-10 credit(s), max credits 10, 10 completions

allowed; prereq instr consent ;

Instructor: Ingraham,Stacy Jean

Description: Student-selected clinical or research experience

KIN 3993 Directed Study in Kinesiology

A-F only, 1-10 credit(s), max credits 10, 10 completions

allowed; prereq instr consent ;

Instructor: Serfass,Robert C

Description: For Kinesiology majors who wish to study a topic or problem under tutorial guidance.

KIN 3993 Directed Study in Kinesiology

A-F only, 1-10 credit(s), max credits 10, 10 completions

allowed; prereq instr consent ;

Instructor: Leon,Arthur S

Description: For Kinesiology majors who wish to study a topic or problem under tutorial guidance.

KIN 3993 Directed Study in Kinesiology

A-F only, 1-10 credit(s), max credits 10, 10 completions

allowed; prereq instr consent ;

Instructor: Kane,Mary Jo

Description: For Kinesiology majors who wish to study a topic or problem under tutorial guidance.

KIN 3993 Directed Study in Kinesiology

A-F only, 1-10 credit(s), max credits 10, 10 completions

allowed; prereq instr consent ;

Instructor: Wade,Michael G

Description: For Kinesiology majors who wish to study a topic or problem under tutorial guidance.

KIN 3993 Directed Study in Kinesiology

A-F only, 1-10 credit(s), max credits 10, 10 completions

allowed; prereq instr consent ;

Instructor: Smith,Thomas J

Description: Directed study in a selected area agreed to by student and instructor, with an emphasis on the areas of human factors/ergonomics, motor performance and behavior, and kinesiology of human systems.

Style: 100% Discussion.

Grading: 100% special projects.

Exam Format: no exams

KIN 3993 Directed Study in Kinesiology

A-F only, 1-10 credit(s), max credits 10, 10 completions

allowed; prereq instr consent ;

Instructor: Wiese-Bjornstal PhD,Diane

Description: For Kinesiology majors who wish to study a topic or problem under tutorial guidance.

KIN 3993 Directed Study in Kinesiology

A-F only, 1-10 credit(s), max credits 10, 10 completions

allowed; prereq instr consent ;

Instructor: Konczak PhD,Juergen

Description: For Kinesiology majors who wish to study a topic or problem under tutorial guidance.

KIN 3993 Directed Study in Kinesiology

A-F only, 1-10 credit(s), max credits 10, 10 completions

allowed; prereq instr consent ;

Instructor: Hoffman,Brandi L

Description: Student-selected clinical or research experience

KIN 3993 Directed Study in Kinesiology

A-F only, 1-10 credit(s), max credits 10, 10 completions

allowed; prereq instr consent ;

Instructor: Dengel PhD,Donald Robert

Description: For Kinesiology majors who wish to study a topic or problem under tutorial guidance.

KIN 3993 Directed Study in Kinesiology

A-F only, 1-10 credit(s), max credits 10, 10 completions

allowed; prereq instr consent ;

Instructor: Stoffregen,Thomas

Description: For Kinesiology majors who wish to study a topic or problem under tutorial guidance.

KIN 3993 Directed Study in Kinesiology

A-F only, 1-10 credit(s), max credits 10, 10 completions

allowed; prereq instr consent ;

Instructor: Ross,Stephen D

Description: Student-selected clinical or research experience. Students enrolled in the sport management program cannot use directed readings for any practicum experience.

KIN 3993 Directed Study in Kinesiology

A-F only, 1-10 credit(s), max credits 10, 10 completions

allowed; prereq instr consent ;

Instructor: Kihl,Lisa A

Description: Student-selected clinical or research experience. Students enrolled in the sport management program cannot use directed readings for any practicum experience.

KIN 3993 Directed Study in Kinesiology

A-F only, 1-10 credit(s), max credits 10, 10 completions

allowed; prereq instr consent ;

Instructor: Petit,Moira Anne

Description: Student-selected clinical or research experience

KIN 3993 Directed Study in Kinesiology

A-F only, 1-10 credit(s), max credits 10, 10 completions

allowed; prereq instr consent ;

Instructor: Weiss,Maureen R

Description: Student-selected clinical or research experience

KIN 3993 Directed Study in Kinesiology

A-F only, 1-10 credit(s), max credits 10, 10 completions

allowed; prereq instr consent ;

Instructor: Brownlee PhD,Eric A

Description: Student-selected clinical or research experience. Students enrolled in the sport management program cannot use directed readings for any practicum experience.

KIN 3993H Directed Study in Kinesiology: Honors

A-F only, 1-10 credit(s), max credits 10, 10 completions

allowed; prereq Kin honors, instr consent ;

Instructor: Treat-Jacobson PhD,Diane Jeanette

Description: Student selected clinical or research experience

KIN 3993H Directed Study in Kinesiology: Honors

A-F only, 1-10 credit(s), max credits 10, 10 completions

allowed; prereq Kin honors, instr consent ;

Instructor: Wade,Michael G

Description: Student-selected clinical or research experience

KIN 3993H Directed Study in Kinesiology: Honors

A-F only, 1-10 credit(s), max credits 10, 10 completions

allowed; prereq Kin honors, instr consent ;

Instructor: Wiese-Bjornstal PhD,Diane

Description: Student-selected clinical or research experience

KIN 3993H Directed Study in Kinesiology: Honors

A-F only, 1-10 credit(s), max credits 10, 10 completions

allowed; prereq Kin honors, instr consent ;

Instructor: Bronas,Ulf Gunnar

Description: Student selected clinical or research experience

KIN 3993H Directed Study in Kinesiology: Honors

A-F only, 1-10 credit(s), max credits 10, 10 completions allowed; prereq Kin honors, instr consent ;
Instructor: Dengel PhD, Donald Robert
Description: Student-selected clinical or research experience

KIN 3993H Directed Study in Kinesiology: Honors
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed; prereq Kin honors, instr consent ;
Instructor: Stoffregen, Thomas
Description: Student-selected clinical or research experience

KIN 3993H Directed Study in Kinesiology: Honors
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed; prereq Kin honors, instr consent ;
Instructor: Petit, Moira Anne
Description: Student-selected clinical or research experience

KIN 4001H Honors Seminar in Kinesiology
A-F only, 3 credit(s), max credits 6; prereq Kinesiology honors;
Instructor: Stoffregen, Thomas
Description: Contemporary issues in kinesiological research. Laboratory rotations, development of UROP project proposal, development of senior thesis topic, advanced study, career opportunities in Kinesiology, special learning opportunities.

KIN 4214 Health Promotion
A-F only, 3 credit(s); prereq 1871 or instr consent ;
Instructor: Lewis, Beth Ann
Description: This course provides students with the foundation for developing health promotion programs for disease prevention. The course will include an overview of behavioral and environmental theories related to health promotion program development. The course will focus on the six step process involved in developing and evaluating health promotion programs. Examples of prevention programs will be presented and evaluated including smoking cessation, physical activity, asthma management, and HIV prevention programs. Students will complete a class project that will involve selecting one health promotion area and developing a health promotion program in their area of interest.

KIN 4385 Exercise Physiology
A-F only, 4 credit(s); prereq [[3385 or PHSL 3051, or equiv], kin major] or instr consent ;
Instructor: Dengel PhD, Donald Robert
Description: Information and learning experiences will be presented that cover specific areas within the discipline of Exercise Physiology. This course is designed for the advanced undergraduate student in Kinesiology, as well as advanced students in such complementary areas as public health, nutrition, physiology, biology, biochemistry, or any sport-related areas. It creates a great opportunity to combine the science of biological, biochemistry, physics, and physiology with the study of health, fitness, wellness, human performance, and sport. Emphasis is placed on basic human physiological systems and the responses of those systems to the challenge of physical activity: from moderate to extreme intensities. The biochemical bases of these responses will be presented. Historical, psychological, sociological, and philosophical implications of these topics will be integrated into many of the lecture/discussions. In addition to lecture information, students will be provided a "hands on", small group laboratory experience that is carefully orchestrated to track lecture material and presentations.

KIN 4641 Training and Conditioning for Sport
A-F only, 3 credit(s); prereq [KIN 4385 or exercise physiology course], [upper level undergrad or M.Ed. or grad student];
Instructor: Ingraham, Stacy Jean
Description: This course prepares the student to systematically design training and conditioning programs for athletes. This course utilizes periodization models with physiological adaptations to maximize human performance in the athletic arena.
Style: 80% Lecture, 20% Discussion.

Grading: 26% final exam, 10% reports/papers, 39% special projects, 16% written homework, 3% in-class presentation, 6% problem solving.

KIN 4697 Student Coaching and Seminar
S-N only, 3 credit(s); prereq [Coaching minor or certificate] student, GPA of at least 2.50;
Instructor: Ingraham, Stacy Jean
Description: Practicum with coinciding seminars.

KIN 4941 Applied Sport Science
OPT No Aud, 3 credit(s); prereq 4981 or instr consent ;
Instructor: Fitzgerald, John S
Description: Introduction to varied contributions of sport sciences to athletic performance. Evaluation of historical research's contributions toward modern day research questions.

KIN 4981 Understanding Kinesiology Research
A-F only, 3 credit(s); prereq Intro statistics recommended;
Instructor: STAFF
Description: Prepares students to critically analyze research specific to Kinesiology.

KIN 5001 Foundations of Human Factors/Ergonomics
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: HUMF 5001;
Instructor: Smith, Thomas J
Description: The course will address these issues in the following contexts: Consumer Product Design; Cognitive Performance and Learning, Psychomotor Performance, Behavioral Cybernetics of Human Performance; Effects of Perturbed Sensory Feedback on Performance; Machine and Tool Performance; Interactive Performance with Complex Technological Systems (Human/Computer; Human/Robot); Occupational Performance and Safety; Social and Team Performance; Organizational Performance; and Performance of Complex Sociotechnical Systems (Aerospace, Educational, Manufacturing, Transportation, Community and Health Systems. Field tours of selected private sector operations are provided to complement classroom activities. Course assignments encompass a series of class presentations, reports, and term projects dealing with HF/E analyses of consumer product design, design of complex sociotechnical systems and job/workplace design features and issues. The course represents the core course in the campus-wide, interdisciplinary Human Factors Minor Program, and is intended for graduate and upper-level undergraduate students with an interest in the conceptual and practical aspects of HF/E science.
Style: 40% Lecture, 10% Discussion. student team presentations & field trips
Grading: 90% reports/papers, 10% in-class presentation.
Exam Format: no exams

KIN 5104 Physical Activities for Persons with Disabilities
A-F only, 3 credit(s);
Instructor: Healy, Kathleen Dalton
Description: Different approaches to providing physical education service and related movement interventions for persons with disabilities. Topics: movement behavior foundations, movement skill progressions, unique considerations for specific impairments, and sport for persons with disabilities

KIN 5111 Sports Facilities
A-F only, 3 credit(s); prereq Kin or Rec grad student or MEd student;
Instructor: Turman PhD, James C
Description: An overview of sports facilities including the planning, development, design, construction, and management of such facilities with emphasis on major indoor multipurpose facilities for recreational sports, physical education, and intercollegiate athletics on the college campus and an introduction to public/private arenas and stadiums. Other topic areas may include funding and financing, operations management, marketing, advertising, public relations, and risk management.
Style: 35% Lecture, 20% Discussion, 15% Small Group

Activities, 10% Student Presentation, 15% Field Trips, 5% Guest Speakers.

Grading: 17% final exam, 35% reports/papers, 25% special projects, 5% quizzes, 13% written homework, 5% attendance. Note: attendance also includes in-class presentation and participation.

Exam Format: multiple choice, fill-in, matching, and essay

KIN 5122 Applied Exercise Physiology

A-F only, 3 credit(s); prereq 4385 or equiv or instr consent;

Instructor: Burns, Kevin Victor

Description: Mechanisms of cardiorespiratory and muscular responses to exercise; application of exercise physiology to assessment of work capacity, athletic conditioning, and requirements of human powered vehicles; low to moderate exercise as an intervention in lowering risk for common health problems.

KIN 5126 Sport Psychology

3 credit(s); prereq 3126 or equiv or instr consent;

Instructor: Weiss, Maureen R

Description: Theory and research in sport psychology. Focus on the psychological study of human behavior in sport and physical activity settings.

KIN 5136 Psychology of Coaching

3 credit(s);

Instructor: LaVoi, Nicole Marie

Description: The course is broken down into two components. The first component focuses on helping coaches (and other sport practitioners) develop skills in creating a climate where optimal development, optimal performance and optimal experience occur simultaneously-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

KIN 5141 Nutrition for Health and Physical Performance

A-F only, 3 credit(s); prereq FScN 1112 or equiv;

Instructor: Leon, Arthur S

Description: Requirements and physiologic roles of nutrients and physical activity in promotion of health and performance; assessment of energy requirements. RDAs, food composition and safety, weight management, and prevention of chronic diseases with emphasis on coronary heart disease. Lectures and slide presentations, take-home project self-assessing one's own usual diet and exercise habits. Target audience: advanced undergraduate and graduate students with science background, preferably with a previous nutrition course, majors and non-majors in Kinesiology.

Style: 90% Lecture.

Grading: 40% mid exam, 50% final exam, 10% special projects.

Exam Format: Multiple choice and short answer

KIN 5152 Curriculum Development in Physical Education

A-F only, 2 credit(s); prereq initial licensure/MEd phys ed

student;

Instructor: Vogel, Paul Robert

Description: Student may contact the instructor or department for information.

KIN 5171 Foundations of Kinesiology

A-F only, 3 credit(s); prereq Kin major or instr consent ;

Instructor: Leitschuh, Carol A.

Description: Engagement in the historical development of the field of Kinesiology and the debates contributing to the academic and practitioner understanding of the study of human movement. Presentation of the current sub-disciplines' historical roots and evolving growth in both scholarship and applied practice. Pertinent current developments in national, international, and minority issues bring Kinesiology's history into the present time within each sub-discipline.

KIN 5196 Practicum: Developmental/Adapted Physical Education

S-N only, 1-4 credit(s), max credits 4, 4 completions allowed; prereq 5103 or concurrent enrollment 5103 or 5104 or concurrent enrollment 5104 or instr consent; KIN undergraduate pre-teaching with sr status are limited to 2 practicum hrs;

Instructor: Braun, Jessica D

Description: This practicum course includes participation in the public school system of physical education instruction for students with disabilities; includes a seminar component for discussion of current issues in developmental adapted physical education and exchange of ideas and problems.

KIN 5196 Practicum: Developmental/Adapted Physical Education

S-N only, 1-4 credit(s), max credits 4, 4 completions allowed; prereq 5103 or concurrent enrollment 5103 or 5104 or concurrent enrollment 5104 or instr consent; KIN undergraduate pre-teaching with sr status are limited to 2 practicum hrs;

Instructor: Leitschuh, Carol A.

Description: This practicum course includes participation in the public school system of physical education instruction for students with disabilities; includes a seminar component for discussion of current issues in developmental adapted physical education and exchange of ideas and problems.

KIN 5375 Competitive Sport for Children and Youth

3 credit(s);

Instructor: Wiese-Bjornstal PhD, Diane

Description: A number of cognitive, behavioral, and physical developmental factors having important implications for organized sport participants from early childhood through high school age are examined in this course. Such factors typically include the historical, philosophical, psychological, social, managerial, medical and physiological dimensions of youth sport participation, as well as related current issues in sport for children and youth. Emphasis is placed both on gaining knowledge about sport science research on young athletes and discussion about current issues surrounding children and youth in sport. Students are expected to demonstrate their ability to apply this knowledge toward improving the climate of sport for children and youth via their current or future work as youth sport professionals. Target audiences include applied kinesiology professionals such as current and prospective youth sport coaches and program administrators, physical education teachers, recreation leaders, early childhood and parent educators, and youth development specialists. Pedagogical techniques include lecture, discussion, video, guest speakers, and peer presentations.

Style: 40% Lecture, 10% Film/Video, 10% Discussion, 10% Small Group Activities, 20% Student Presentation, 10% Guest Speakers.

Grading: 20% final exam, 40% reports/papers, 10% reflection paper, 30% in-class presentation.

Exam Format: Essay format

KIN 5421 Sport Finance

A-F only, 3 credit(s); prereq Grad student or instr consent ; Instructor: Ross,Stephen D

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 5461 Foundations of Sport Management

A-F only, 3 credit(s); prereq Kin or rec or postbac or grad student or instr consent ;

Instructor: Esten,Phil L

Description: Theories/techniques in administration/management of sport enterprises. Organizational theory/policy, practical examples of sport management skills/strategies.

KIN 5485 Advanced Electrocardiogram, Graded Exercise Testing, and Prescription

A-F only, 3 credit(s); prereq [3385, 4385] or instr consent ;

Instructor: Nelson,Brittney J

Description: Introduction to electrocardiogram. Placement/interpretation, use in clinical exercise testing and exercise prescription. Hands-on experience in electrocardiogram for exercise testing.

KIN 5505 Human-Centered Design - Principles and Applications

3 credit(s); Credit will not be granted if credit has been received for: KIN 3505;

Instructor: Smith,Thomas J

Description: Human-centered design (also termed user-centered design, usability engineering, human engineering or universal design) is an interdisciplinary area of design study that focuses on how design can be tailored to address, accommodate, and meet human expectations, capabilities, needs, and limitations. The rationale for the course is that: 'good design makes things work better and last longer, helps make people and business more productive, and reduces discomfort and waste.' The basic premise for the course is that 'good' design means human-centered design (HCD). The course will address this premise from a number of different perspectives, considering HCD of fabricated artifacts, human-computer interfaces, built environments, and complex sociotechnical and organizational systems and environments. The course will offer a diverse mix of lecture, open discussion, design analysis projects, guest speakers, field site visits and evaluations, and differing cultural approaches to design.

Style: 40% Lecture, 20% Discussion. student team presentations

Grading: 75% reports/papers, 25% in-class presentation.

KIN 5511 Women in Sport and Leisure

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: REC 5511;

Instructor: Buysse,Jo Ann

Description: The primary purpose of this course is to provide students with an opportunity to critically examine, understand and appreciate women's involvement in-and contributions to-sport and physical activity from both an historical and contemporary perspective. Students will be expected to analyze, critique, and evaluate a wide range of historical, cultural, economic and socio-psychological issues that have shaped the nature and scope of women's participation in sport, physical activity and leisure. Utilizing feminist perspectives, particular attention will be given to the various ways in which females (and their bodies) are often viewed as fundamentally different-physically, socially and psychologically-from their male counterparts. Much of this analysis will take place against the backdrop of highly organized, competitive sports such as

intercollegiate athletics. In addition, we will see how it is impossible to separate women's and men's sports from the broader societal roles of women and men in general. Finally, issues that address race/ethnicity, social class and sexual orientation, and how those issues influence women's and men's sports, will also be emphasized throughout the semester. This course will be web enhanced through webctvista.

Style: 50% Lecture, 40% Discussion.

Grading: 25% mid exam, 45% reports/papers, 10% in-class presentation, 20% class participation.

Exam Format: essay

KIN 5631 Programming and Promotion in Sport

A-F only, 3 credit(s); prereq Kin or Rec grad student or instr consent ;

Instructor: Ross,Stephen D

Description: While sport promoters can be traced as far back as early 20th century boxing matches, sport marketing as a concept has just recently been credited with the sudden rise in industrial interest. Although the sport industry is still in it's early growth period, it has experienced extreme financial prosperity. Largely responsible for the increased popularity and revenue gain of the field is sport marketing. This course is designed to introduce marketing concepts as they apply to the sport industry. Topics such as consumer behavior, market research, the marketing mix and licensing will be covered through the use of interactive discussion and practical application.

KIN 5696 Practicum in Kinesiology

S-N only, 1-6 credit(s), max credits 6, 6 completions allowed; prereq [Kin MEd or grad student], instr consent ;

Instructor: Buysse,Jo Ann

Description: Practical experience in kinesiology under supervision of a University faculty member and an agency supervisor

KIN 5696 Practicum in Kinesiology

S-N only, 1-6 credit(s), max credits 6, 6 completions allowed; prereq [Kin MEd or grad student], instr consent ;

Instructor: Ingraham,Stacy Jean

Description: Practical experience in Kinesiology under supervision of a University adviser and an agency supervisor.

KIN 5696 Practicum in Kinesiology

S-N only, 1-6 credit(s), max credits 6, 6 completions allowed; prereq [Kin MEd or grad student], instr consent ;

Instructor: Allison JD,Rayla

Description: Practical experience in Kinesiology under supervision of a University adviser and an agency supervisor.

KIN 5696 Practicum in Kinesiology

S-N only, 1-6 credit(s), max credits 6, 6 completions allowed; prereq [Kin MEd or grad student], instr consent ;

Instructor: Leon,Arthur S

Description: Practical experience in Kinesiology under supervision of a University adviser and an agency supervisor.

KIN 5696 Practicum in Kinesiology

S-N only, 1-6 credit(s), max credits 6, 6 completions allowed; prereq [Kin MEd or grad student], instr consent ;

Instructor: Kihl,Lisa A

Description: Practicum offers students opportunities to work in a professional environment under the guidance of professionals. This professional experience should be completed near the completion of your M.Ed. program (completed 15 credits or more) as a culmination of your education and experience. Practicum should be viewed as a transition step between a student's education and their professional career. Typically the practicum offers a level of responsibility that allows a student to develop professional skills in the field/industry while offering the student training and supervision, which allows them to practically apply previously studied theory. Course information at <http://intranet.kin.umn.edu/practicum/>

KIN 5696 Practicum in Kinesiology

S-N only, 1-6 credit(s), max credits 6, 6 completions allowed;

prereq [Kin MEd or grad student], instr consent ;
Instructor: Brownlee PhD, Eric A
Description: Practical experience in kinesiology under supervision of a University faculty member and an agency supervisor

Instructor: Lewis, Beth Ann
Description: Independent study under tutorial guidance.

KIN 5723 Psychology of Sport Injury
3 credit(s); prereq Intro psych course;

Instructor: Wiese-Bjornstal PhD, Diane
Description: This course includes content on the psychosocial bases of the following: risk factors preceding sport injury, responses to the occurrence of sport injury, and the rehabilitation process. Content of the course includes both the theoretical and research foundations of sport injury psychology as well as the practical implications of this knowledge. Structure of the course includes lectures, discussions, guest lecturers, videos, and student presentations. The target audience encompasses both sport psychology graduate students and applied practitioners working with sportsmedicine situations (such as athletic trainers, physical therapists, coaches, and sport psychology consultants). This course will be web enhanced via WebCT.
Style: 60% Lecture, 20% Discussion. video and other media; student presentations
Grading: 20% mid exam, 20% final exam, 40% reports/papers, 10% in-class presentation, 10% class participation.
Exam Format: Mixed method; typically a combination of multiple choice and essay questions

KIN 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq [KIN upper div undergrad or MEd or grad student],
instr consent;
Instructor: LaVoi, Nicole Marie
Description: Independent study under tutorial guidance.

KIN 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq [KIN upper div undergrad or MEd or grad student],
instr consent;
Instructor: Ingraham, Stacy Jean
Description: Independent study under tutorial guidance.

KIN 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq [KIN upper div undergrad or MEd or grad student],
instr consent;
Instructor: 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;
prereq [KIN upper div undergrad or MEd or grad student],
instr consent;
Instructor: Serfass, Robert C
Description: Independent study under tutorial guidance.

KIN 5725 Organization and Management of Physical Education and Sport

A-F only, 3 credit(s); prereq Grad/initial licensure or instr consent;
Instructor: Brownlee PhD, Eric A
Description: Comprehensive analysis of organization and management of physical education and sport in educational settings. Focus on management and planning processes, management skills, functions, roles, decision making, leadership, shared systems, and organizational motivation. For physical education teachers, coaches, community sport administrators.

KIN 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq [KIN upper div undergrad or MEd or grad student],
instr consent;
Instructor: Leon, Arthur S
Description: Independent study under tutorial guidance.

KIN 5801 Legal Aspects of Sport and Recreation

A-F only, 4 credit(s); prereq Kin or rec major;
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;
prereq [KIN upper div undergrad or MEd or grad student],
instr consent;
Instructor: Kane, Mary Jo
Description: Independent study under tutorial guidance.

KIN 5941 Neural Basis of Movement

A-F only, 3 credit(s); prereq [(3111, CBN 1027) or equiv], [Phsl 3051 or equiv];
Instructor: Konczak PhD, Juergen
Description: This course provides an overview of various neural subsystems involved in controlling human/primate motor behavior. The effects of specific brain lesions on overt behavior will serve as a guide to assess the role of each subsystem. The course attempts to bridge basic and applied neuroscience by adapting a systems approach to motor control. It also discusses possibilities for rehabilitation of neurological movement disorders. This seminar is suitable for students in neuroscience, physical therapy, physiology, psychology and human movement science.

KIN 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq [KIN upper div undergrad or MEd or grad student],
instr consent;
Instructor: Wade, Michael G
Description: Independent study under tutorial guidance.

KIN 5981 Research Methodology in Kinesiology, Recreation, and Sport

A-F only, 3 credit(s); prereq 3151 or equiv; Credit will not be granted if credit has been received for: REC 5981;
Instructor: Kihl, Lisa A
Description: Defines/reviews various types of research in exercise and sport science, physical education, and recreation studies. Qualitative research, field studies, and introspective research strategies as alternatives to traditional scientific paradigm.

KIN 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq [KIN upper div undergrad or MEd or grad student],
instr consent;
Instructor: Smith, Thomas J
Description: Directed study of selected readings in kinesiology with an emphasis on the areas of human factors/ergonomics and motor performance and behavior.
Style: 100% Discussion.
Grading: 100% special projects.
Exam Format: no exams

KIN 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq [KIN upper div undergrad or MEd or grad student],
instr consent;
Instructor: Wiese-Bjornstal PhD, Diane
Description: Independent study under tutorial guidance.

KIN 5992 Readings in Kinesiology

A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq [KIN upper div undergrad or MEd or grad student],
instr consent;

KIN 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq [KIN upper div undergrad or MEd or grad student],
instr consent;

Instructor: 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;
prereq [KIN upper div undergrad or MEd or grad student],
instr consent;

Instructor: Leitschuh,Carol A.

Description: Independent study under tutorial guidance.

KIN 5992 Readings in Kinesiology

A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq [KIN upper div undergrad or MEd or grad student],
instr consent;

Instructor: Dengel PhD,Donald Robert

Description: Independent study under tutorial guidance.

KIN 5992 Readings in Kinesiology

A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq [KIN upper div undergrad or MEd or grad student],
instr consent;

Instructor: Stoffregen,Thomas

Description: Independent study under tutorial guidance.

KIN 5992 Readings in Kinesiology

A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq [KIN upper div undergrad or MEd or grad student],
instr consent;

Instructor: Ross,Stephen D

Description: Independent study under tutorial guidance.

KIN 5992 Readings in Kinesiology

A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq [KIN upper div undergrad or MEd or grad student],
instr consent;

Instructor: Kihl,Lisa A

Description: Independent study under tutorial guidance.

KIN 5992 Readings in Kinesiology

A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq [KIN upper div undergrad or MEd or grad student],
instr consent;

Instructor: Petit,Moira Anne

Description: Independent study under tutorial guidance.

KIN 5992 Readings in Kinesiology

A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq [KIN upper div undergrad or MEd or grad student],
instr consent;

Instructor: Weiss,Maureen R

Description: Independent study under tutorial guidance.

KIN 5995 Research Problems in Applied Kinesiology

A-F only, 1-6 credit(s), max credits 6, 6 completions allowed;
prereq [Kin upper div undergrad or MEd or grad student], 15
cr of major coursework [including 4981 or 5981], instr
consent ;

Instructor: Rodgerson,Richard W

Description: Selected topics in physical activity/human performance.

KIN 5995 Research Problems in Applied Kinesiology

A-F only, 1-6 credit(s), max credits 6, 6 completions allowed;
prereq [Kin upper div undergrad or MEd or grad student], 15
cr of major coursework [including 4981 or 5981], instr
consent ;

Instructor: Buysse,Jo Ann

Description: Selected topics in physical activity/human performance.

KIN 5995 Research Problems in Applied Kinesiology

A-F only, 1-6 credit(s), max credits 6, 6 completions allowed;
prereq [Kin upper div undergrad or MEd or grad student], 15
cr of major coursework [including 4981 or 5981], instr
consent ;

Instructor: Lewis,Beth Ann

Description: Selected topics in physical activity/human performance.

KIN 5995 Research Problems in Applied Kinesiology

A-F only, 1-6 credit(s), max credits 6, 6 completions allowed;
prereq [Kin upper div undergrad or MEd or grad student], 15
cr of major coursework [including 4981 or 5981], instr
consent ;

Instructor: LaVoi,Nicole Marie

Description: Selected topics in physical activity/human performance.

KIN 5995 Research Problems in Applied Kinesiology

A-F only, 1-6 credit(s), max credits 6, 6 completions allowed;
prereq [Kin upper div undergrad or MEd or grad student], 15
cr of major coursework [including 4981 or 5981], instr
consent ;

Instructor: Ingraham,Stacy Jean

Description: Selected topics in physical activity/human performance.

KIN 5995 Research Problems in Applied Kinesiology

A-F only, 1-6 credit(s), max credits 6, 6 completions allowed;
prereq [Kin upper div undergrad or MEd or grad student], 15
cr of major coursework [including 4981 or 5981], instr
consent ;

Instructor: Allison JD,Rayla

Description: Selected topics in physical activity/human performance.

KIN 5995 Research Problems in Applied Kinesiology

A-F only, 1-6 credit(s), max credits 6, 6 completions allowed;
prereq [Kin upper div undergrad or MEd or grad student], 15
cr of major coursework [including 4981 or 5981], instr
consent ;

Instructor: Serfass,Robert C

Description: Research problems and readings on a selected topic in Kinesiology.

KIN 5995 Research Problems in Applied Kinesiology

A-F only, 1-6 credit(s), max credits 6, 6 completions allowed;
prereq [Kin upper div undergrad or MEd or grad student], 15
cr of major coursework [including 4981 or 5981], instr
consent ;

Instructor: Leon,Arthur S

Description: Research problems and readings on a selected topic in Kinesiology.

KIN 5995 Research Problems in Applied Kinesiology

A-F only, 1-6 credit(s), max credits 6, 6 completions allowed;
prereq [Kin upper div undergrad or MEd or grad student], 15
cr of major coursework [including 4981 or 5981], instr
consent ;

Instructor: Kane,Mary Jo

Description: Research problems and readings on a selected topic in Kinesiology.

KIN 5995 Research Problems in Applied Kinesiology

A-F only, 1-6 credit(s), max credits 6, 6 completions allowed;
prereq [Kin upper div undergrad or MEd or grad student], 15
cr of major coursework [including 4981 or 5981], instr
consent ;

Instructor: Wade,Michael G

Description: Research problems and readings on a selected topic in Kinesiology.

KIN 5995 Research Problems in Applied Kinesiology

A-F only, 1-6 credit(s), max credits 6, 6 completions allowed;
prereq [Kin upper div undergrad or MEd or grad student], 15
cr of major coursework [including 4981 or 5981], instr
consent ;

Instructor: Smith,Thomas J

Description: Directed study of selected research problems in kinesiology, with an emphasis on the areas of human factors/ergonomics and motor behavior.

Style: 100% Discussion.
Grading: 100% special projects.
Exam Format: no exam

Research methodology in Kinesiology, Recreation, and Sport prior to enrolling in KIN 5995.

KIN 5995 Research Problems in Applied Kinesiology

A-F only, 1-6 credit(s), max credits 6, 6 completions allowed; prereq [Kin upper div undergrad or MEd or grad student], 15 cr of major coursework [including 4981 or 5981], instr consent ;

Instructor: Wiese-Bjornstal PhD,Diane

Description: Research problems and readings on a selected topic in Kinesiology.

KIN 5995 Research Problems in Applied Kinesiology

A-F only, 1-6 credit(s), max credits 6, 6 completions allowed; prereq [Kin upper div undergrad or MEd or grad student], 15 cr of major coursework [including 4981 or 5981], instr consent ;

Instructor: Petit,Moira Anne

Description: Selected topics in physical activity/human performance.

KIN 5995 Research Problems in Applied Kinesiology

A-F only, 1-6 credit(s), max credits 6, 6 completions allowed; prereq [Kin upper div undergrad or MEd or grad student], 15 cr of major coursework [including 4981 or 5981], instr consent ;

Instructor: Konczak PhD,Juergen

Description: Research problems and readings on a selected topic in Kinesiology.

KIN 5995 Research Problems in Applied Kinesiology

A-F only, 1-6 credit(s), max credits 6, 6 completions allowed; prereq [Kin upper div undergrad or MEd or grad student], 15 cr of major coursework [including 4981 or 5981], instr consent ;

Instructor: Weiss,Maureen R

Description: Selected topics in physical activity/human performance.

KIN 5995 Research Problems in Applied Kinesiology

A-F only, 1-6 credit(s), max credits 6, 6 completions allowed; prereq [Kin upper div undergrad or MEd or grad student], 15 cr of major coursework [including 4981 or 5981], instr consent ;

Instructor: Leitschuh,Carol A.

Description: Selected topics in physical activity/human performance.

KIN 5995 Research Problems in Applied Kinesiology

A-F only, 1-6 credit(s), max credits 6, 6 completions allowed; prereq [Kin upper div undergrad or MEd or grad student], 15 cr of major coursework [including 4981 or 5981], instr consent ;

Instructor: Brownlee PhD,Eric A

Description: Selected topics in physical activity/human performance.

KIN 5995 Research Problems in Applied Kinesiology

A-F only, 1-6 credit(s), max credits 6, 6 completions allowed; prereq [Kin upper div undergrad or MEd or grad student], 15 cr of major coursework [including 4981 or 5981], instr consent ;

Instructor: Dengel PhD,Donald Robert

Description: Research problems and readings on a selected topic in Kinesiology.

KIN 6596 Clinical Experience I: Physical Education

S-N only, 4 credit(s); prereq 6151, 6521, 6522, initial licensure/MEd phys ed student or instr consent;

Instructor: Spletzer,Elizabeth A

Description: Half-day supervised teaching in an urban elementary school physical education setting.

KIN 5995 Research Problems in Applied Kinesiology

A-F only, 1-6 credit(s), max credits 6, 6 completions allowed; prereq [Kin upper div undergrad or MEd or grad student], 15 cr of major coursework [including 4981 or 5981], instr consent ;

Instructor: Stoffregen,Thomas

Description: Research problems and readings on a selected topic in Kinesiology.

KIN 8135 Seminar: Motor Control and Learning

A-F only, 3 credit(s), max credits 6; prereq 4135 or equiv or instr consent;

Instructor: Stoffregen,Thomas

Description: Student may contact the instructor or department for information.

KIN 8696 Internship: Applied Sport Psychology

S-N only, 3-6 credit(s), max credits 6; prereq 5126, 8126, Kin PhD student, instr consent ;

Instructor: Wiese-Bjornstal PhD,Diane

Description: Supervised internship; emphasis on educational sport psychology approaches to athletic performance enhancement and psychological adjustment to sport injury.

KIN 5995 Research Problems in Applied Kinesiology

A-F only, 1-6 credit(s), max credits 6, 6 completions allowed; prereq [Kin upper div undergrad or MEd or grad student], 15 cr of major coursework [including 4981 or 5981], instr consent ;

Instructor: Ross,Stephen D

Description: Selected topics in physical activity/human performance.

KIN 8980 Graduate Research Seminar in Kinesiology

S-N only, 1 credit(s), max credits 9, 9 completions allowed; prereq Grad Kin major, instr consent ;

Instructor: Serfass,Robert C

Description: Reporting and discussion of student and faculty research activity.

KIN 5995 Research Problems in Applied Kinesiology

A-F only, 1-6 credit(s), max credits 6, 6 completions allowed; prereq [Kin upper div undergrad or MEd or grad student], 15 cr of major coursework [including 4981 or 5981], instr consent ;

Instructor: Kihl,Lisa A

Description: Students enrolled in the M.Ed. sport management emphasis area are required to complete a culminating project. This project should be completed near the end of your M.Ed. program as a culmination of your education and experience. You are asked to identify a problem or need in your area of professional practice in Kinesiology and come up with a project that addresses this problem or need to fulfill the requirements of KIN 5995. You should produce a final product that is useful to your professional practice. For additional information please click on this link.
<http://cehd.umn.edu/kin/students/docs/M.Ed%20Problems%20Proposal%20Form.pdf>
 It is recommended that students complete KIN/REC 5981

KIN 8995 Research Problems in Kinesiology

S-N only, 1-9 credit(s), max credits 9, 9 completions allowed; prereq Kin PhD student, instr consent ;

Instructor: Lewis,Beth Ann

Description: Research Problems in Kinesiology

KIN 8995 Research Problems in Kinesiology

S-N only, 1-9 credit(s), max credits 9, 9 completions allowed; prereq Kin PhD student, instr consent ;

Instructor: LaVoi,Nicole Marie

Description: Research Problems in Kinesiology

KIN 8995 Research Problems in Kinesiology

S-N only, 1-9 credit(s), max credits 9, 9 completions allowed; prereq Kin PhD student, instr consent ;

Instructor: Ingraham,Stacy Jean

Description: Research Problems in Kinesiology

KIN 8995 Research Problems in Kinesiology

S-N only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq Kin PhD student, instr consent ;
Instructor: Serfass,Robert C

Description: Research Problems in Kinesiology

KIN 8995 Research Problems in Kinesiology

S-N only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq Kin PhD student, instr consent ;
Instructor: Leon,Arthur S

Description: Research Problems in Kinesiology

KIN 8995 Research Problems in Kinesiology

S-N only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq Kin PhD student, instr consent ;
Instructor: Kane,Mary Jo

Description: Research Problems in Kinesiology

KIN 8995 Research Problems in Kinesiology

S-N only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq Kin PhD student, instr consent ;
Instructor: Wade,Michael G

Description: Research Problems in Kinesiology

KIN 8995 Research Problems in Kinesiology

S-N only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq Kin PhD student, instr consent ;
Instructor: Wiese-Bjornstal PhD,Diane

Description: Research Problems in Kinesiology

KIN 8995 Research Problems in Kinesiology

S-N only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq Kin PhD student, instr consent ;
Instructor: Konczak PhD,Juergen

Description: Research Problems in Kinesiology

KIN 8995 Research Problems in Kinesiology

S-N only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq Kin PhD student, instr consent ;
Instructor: Dengel PhD,Donald Robert

Description: Research Problems in Kinesiology

KIN 8995 Research Problems in Kinesiology

S-N only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq Kin PhD student, instr consent ;
Instructor: Stoffregen,Thomas

Description: Research Problems in Kinesiology

KIN 8995 Research Problems in Kinesiology

S-N only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq Kin PhD student, instr consent ;
Instructor: Ross,Stephen D

Description: Research Problems in Kinesiology

KIN 8995 Research Problems in Kinesiology

S-N only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq Kin PhD student, instr consent ;
Instructor: Kihl,Lisa A

Description: Research Problems in Kinesiology

KIN 8995 Research Problems in Kinesiology

S-N only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq Kin PhD student, instr consent ;
Instructor: Petit,Moira Anne

Description: Research Problems in Kinesiology

KIN 8995 Research Problems in Kinesiology

S-N only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq Kin PhD student, instr consent ;
Instructor: Weiss,Maureen R

Description: Research Problems in Kinesiology

Korean 453 Folwell Hall

KOR 1011 Beginning Korean

5 credit(s); Credit will not be granted if credit has been received for: KOR 4001;

Instructor: Cho,Hangtae

Description: This course is the first of a two-semester sequence of Beginning Korean; it is designed for true beginners or non-heritage learners who have no or little background knowledge of Korean. It aims to begin developing the four communication skills (speaking, listening, reading and writing) in Korean. It covers the basic grammatical structures and vocabulary necessary for basic conversation, reading comprehension, and writing to have the students build a solid foundation for further study in the Korean language. The course also provides useful information concerning culture (where culture touches on language and communication) and everyday life in Korea. After completing this course, a student should be able 1) to maintain simple face-to-face conversation by asking and answering simple questions in Korean, 2) to comprehend the learned materials, 3) to write simple sentences and expressions, and 4) to comprehend simple texts with limited vocabulary.

KOR 1011 Beginning Korean

5 credit(s); Credit will not be granted if credit has been received for: KOR 4001;

Instructor: Yoon,Sang-Seok

Description: Student may contact the instructor or department for information.

KOR 1011 Beginning Korean

5 credit(s); Credit will not be granted if credit has been received for: KOR 4001;

Instructor: Ahn,Sejung

Description: This course is the first of a two-semester sequence of Beginning Korean; it is designed for true beginners or non-heritage learners who have no or little background knowledge of Korean. It aims to begin developing the four communication skills (speaking, listening, reading and writing) in Korean. It covers the basic grammatical structures and vocabulary necessary for basic conversation, reading comprehension, and writing to have the students build a solid foundation for further study in the Korean language. The course also provides useful information concerning culture (where culture touches on language and communication) and everyday life in Korea. After completing this course, a student should be able 1) to maintain simple face-to-face conversation by asking and answering simple questions in Korean, 2) to comprehend the learned materials, 3) to write simple sentences and expressions, and 4) to comprehend simple texts with limited vocabulary.

KOR 3021 Intermediate Korean

5 credit(s); prereq 1012; Credit will not be granted if credit has been received for: KOR 4003;

Instructor: Yoon,Sang-Seok

Description: Student may contact the instructor or department for information.

KOR 3021 Intermediate Korean

5 credit(s); prereq 1012; Credit will not be granted if credit has been received for: KOR 4003;

Instructor: Yoon,Hea Jun

Description: Student may contact the instructor or department for information.

KOR 3031 Third Year Korean

4 credit(s); prereq 3022;

Instructor: Cheon,Yunseong

Description: KOR 3031/4005 is the first half of the third year Korean courses. This course is designed for those who have

successfully completed second year Korean courses, and those who are interested in learning Korean in depth. The primary objective of this course is to develop communication skills appropriate to the high-intermediate level. You are expected to practice grammatical structures and vocabulary that you have already learned as well as to learn new structures and expressions. The second objective is to expand awareness of language and culture through readings of Korean texts and research projects on Korean language and culture.

KOR 3290 Korean Language Teaching Tutorial
S-N only, 1 credit(s), max credits 2; prereq Grade of A in 3032;
Instructor: Cho, Hangtae
Description: Student may contact the instructor or department for information.

KOR 4001 Beginning Korean
3 credit(s); prereq Grad student; Credit will not be granted if credit has been received for: KOR 1011;
Instructor: Cho, Hangtae
Description: This course is the first of a two-semester sequence of Beginning Korean; it is designed for true beginners or non-heritage learners who have no or little background knowledge of Korean. It aims to begin developing the four communication skills (speaking, listening, reading and writing) in Korean. It covers the basic grammatical structures and vocabulary necessary for basic conversation, reading comprehension, and writing to have the students build a solid foundation for further study in the Korean language. The course also provides useful information concerning culture (where culture touches on language and communication) and everyday life in Korea. After completing this course, a student should be able 1) to maintain simple face-to-face conversation by asking and answering simple questions in Korean, 2) to comprehend the learned materials, 3) to write simple sentences and expressions, and 4) to comprehend simple texts with limited vocabulary.

KOR 4001 Beginning Korean
3 credit(s); prereq Grad student; Credit will not be granted if credit has been received for: KOR 1011;
Instructor: Yoon, Sang-Seok
Description: This course is the first of a two-semester sequence of Beginning Korean; it is designed for true beginners or non-heritage learners who have no or little background knowledge of Korean. It aims to begin developing the four communication skills (speaking, listening, reading and writing) in Korean. It covers the basic grammatical structures and vocabulary necessary for basic conversation, reading comprehension, and writing to have the students build a solid foundation for further study in the Korean language. The course also provides useful information concerning culture (where culture touches on language and communication) and everyday life in Korea. After completing this course, a student should be able 1) to maintain simple face-to-face conversation by asking and answering simple questions in Korean, 2) to comprehend the learned materials, 3) to write simple sentences and expressions, and 4) to comprehend simple texts with limited vocabulary.

KOR 4001 Beginning Korean
3 credit(s); prereq Grad student; Credit will not be granted if credit has been received for: KOR 1011;
Instructor: Ahn, Sejung
Description: This course is the first of a two-semester sequence of Beginning Korean; it is designed for true beginners or non-heritage learners who have no or little background knowledge of Korean. It aims to begin developing the four communication skills (speaking, listening, reading and writing) in Korean. It covers the basic grammatical structures and vocabulary necessary for basic conversation, reading comprehension, and writing to have the students build a solid foundation for further study in the Korean language. The course also provides useful information concerning culture (where culture touches on language and communication) and everyday

life in Korea. After completing this course, a student should be able 1) to maintain simple face-to-face conversation by asking and answering simple questions in Korean, 2) to comprehend the learned materials, 3) to write simple sentences and expressions, and 4) to comprehend simple texts with limited vocabulary.

KOR 4003 Intermediate Korean
3 credit(s); prereq 4002, grad student; Credit will not be granted if credit has been received for: KOR 3021;
Instructor: Yoon, Sang-Seok
Description: Student may contact the instructor or department for information.

KOR 4003 Intermediate Korean
3 credit(s); prereq 4002, grad student; Credit will not be granted if credit has been received for: KOR 3021;
Instructor: Yoon, Hea Jun
Description: Student may contact the instructor or department for information.

KOR 4005 Third Year Korean
3 credit(s); prereq 4004, grad student;
Instructor: Cheon, Yunseong
Description: KOR 3031/4005 is the first half of the third year Korean courses. This course is designed for those who have successfully completed second year Korean courses, and those who are interested in learning Korean in depth. The primary objective of this course is to develop communication skills appropriate to the high-intermediate level. You are expected to practice grammatical structures and vocabulary that you have already learned as well as to learn new structures and expressions. The second objective is to expand awareness of language and culture through readings of Korean texts and research projects on Korean language and culture.

KOR 4041 Advanced Readings in Modern Korean
4 credit(s); prereq 3032 or equiv or instr consent ;
Instructor: Yoon, Sang-Seok
Description: Student may contact the instructor or department for information.

KOR 5140 Readings in Sino-Korean Texts
3 credit(s), max credits 9, 3 completions allowed; prereq 3032 or equiv or instr consent ;
Instructor: Cho, Hangtae
Description: This course is designed to increase the students' proficiency to advanced-high level in all aspects of modern Korean with a special emphasis on Sino Korean; Sino-Korean vocabulary and characters are necessary for advanced and superior level of knowledge in Korean. Sino-Korean characters are used differently from the same Chinese characters used in contemporary China in terms of pronunciation, meaning, and word formation. This course aims to prepare students for research or employment in a variety of Korea-related fields. Text materials are drawn from authentic sources including modern Korean literature, film, intellectual history, and readings on contemporary issues. Radio and TV broadcasts will also be included in the teaching materials. Texts will be selected, in part, according to student interests. With the instructor's guidance, students will conduct research projects based on specialized readings in their own fields of study. The research projects will be presented both orally and in written form at the end of the semester. This course will be mostly taught in Korean. 3 repeats are allowed.

Landscape Architecture

144 Rapson Hall

LA 1201 Learning from the Landscape
A-F only, 3 credit(s); Meets CLE req of Cultural Diversity Theme;
Instructor: Nunnally, Patrick

Description: This course is designed to give students an understanding of why the landscape around us looks the way it does. What do our cities, parks, farms, and small towns say about who we are and what we think is important? How do people make homes for themselves, establish public spaces, and understand the meanings of places in the American landscape? What contributions have various racial, ethnic, and class-based groups made to the contemporary American landscape? Lectures are heavily illustrated, and there are two field exercises that invite students to explore the nearby landscape. Course meets the CLE Cultural Diversity requirement.

Style: 80% Lecture, 20% Discussion.

Grading: 2 midterms, 2 exercises, final exam (all 20%), several small homework assignments are also required.

Exam Format: Short answer

for information.

LA 4712 Infrastructure, Natural Systems and the Space of Inhabited Landscapes

A-F only, 3 credit(s);

Instructor: Lehrman, Barry

Description: Student may contact the instructor or department for information.

LA 5201 Making Landscape Spaces and Types

A-F only, 6 credit(s); prereq B.E.D accelerated status or LA grad or instr consent ;

Instructor: Krinke, Rebecca Jean

Description: Student may contact the instructor or department for information.

LA 5202 Landscape Analysis Workshop

S-N only, 1 credit(s);

Instructor: Koepke, John Albert

Description: Student may contact the instructor or department for information.

LA 5301 Introduction to Landscape Architecture Drawing

3 credit(s); prereq LA grad student or accelerated B.E.D. student; Credit will not be granted if credit has been received for: LA 1301;

Instructor: Koepke, John Albert

Description: Student may contact the instructor or department for information.

LA 5371 Computer Methods I

S-N only, 1 credit(s); prereq B.E.D. accelerated status or LA grad or instr consent ; Credit will not be granted if credit has been received for: ARCH 5371;

Instructor: Kocian, Matthew Bernard

Description: Student may contact the instructor or department for information.

LA 5374 Representation for Landscape Architectural Construction

3 credit(s);

Instructor: deBritto, Vincent P

Description: Student may contact the instructor or department for information.

LA 5401 Directed Studies in Emerging Areas of Landscape Architecture

1-3 credit(s), max credits 12, 12 completions allowed; prereq instr consent ;

Instructor: Martin, Roger B

Description: Student may contact the instructor or department for information.

LA 5401 Directed Studies in Emerging Areas of Landscape Architecture

1-3 credit(s), max credits 12, 12 completions allowed; prereq instr consent ;

Instructor: Krinke, Rebecca Jean

Description: Student may contact the instructor or department for information.

LA 5401 Directed Studies in Emerging Areas of Landscape Architecture

1-3 credit(s), max credits 12, 12 completions allowed; prereq instr consent ;

Instructor: Koepke, John Albert

Description: Student may contact the instructor or department for information.

LA 5401 Directed Studies in Emerging Areas of Landscape Architecture

1-3 credit(s), max credits 12, 12 completions allowed; prereq instr consent ;

Instructor: Galatowitsch, Susan M

Description: Student may contact the instructor or department

LA 1301 Introduction to Landscape Architecture Drawing

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: LA 5301; Meets CLE req of Other Humanities Core;

Instructor: Agee, Bradley Steele

Description: Classroom and homework projects will focus on exploring landscape space and organization through the completion of assigned exercises and work in your sketch journal. Progress will be evaluated and guidance offered during classroom critique. You will be expected to work in class, so be sure that you bring your materials to class unless notified otherwise. The class will consist of classroom drawing exercises, lectures, demonstrations, and reviews of students work. Weekly assignments will typically be given on Monday to be completed Wednesday depending upon the nature of the assignment.

Grading: 60% special projects, 20% laboratory evaluation, 20% other evaluation. Sketch journal

LA 2301 Advanced Representation for Environmental Design

3 credit(s); prereq 1301;

Instructor: Siebenaler-Ransom, Anthony J

Description: Student may contact the instructor or department for information.

LA 3001 Understanding and Creating Landscape Space

A-F only, 3 credit(s); prereq B.E.D major or pre-LA student or instr consent;

Instructor: Agee, Bradley Steele

Description: Student may contact the instructor or department for information.

LA 3003 Case Studies in Sustainable Landscape Planning and Design

3 credit(s); prereq 1301, 1401, Concurrent registration is required (or allowed) in 2301;

Instructor: Raab, Kristin Kelly

Description: Student may contact the instructor or department for information.

LA 3571 Landscape Construction: Site Systems and Engineering

A-F only, 3 credit(s); prereq BED major or BED minor or instr consent;

Instructor: Gunderson, Robert James

Description: Student may contact the instructor or department for information.

LA 4001 Sustainable Landscape Design and Planning Practices

4 credit(s); prereq 1301, 3001, 3002, ARCH 3301;

Instructor: Rolph, Sandra Gale

Description: Student may contact the instructor or department for information.

LA 4096 Internship in Landscape Design and Planning

S-N only, 1 credit(s); prereq 1301, 2301, 2302, 3001, 3002, 3003;

Instructor: Thering, Katherine Lynn

Description: Student may contact the instructor or department

for information.

LA 5401 Directed Studies in Emerging Areas of Landscape Architecture
1-3 credit(s), max credits 12, 12 completions allowed; prereq instr consent ;
Instructor: Pitt,David George
Description: Student may contact the instructor or department for information.

LA 5401 Directed Studies in Emerging Areas of Landscape Architecture
1-3 credit(s), max credits 12, 12 completions allowed; prereq instr consent ;
Instructor: Neckar,Lance M
Description: Student may contact the instructor or department for information.

LA 5401 Directed Studies in Emerging Areas of Landscape Architecture
1-3 credit(s), max credits 12, 12 completions allowed; prereq instr consent ;
Instructor: Hewitt,Clinton N
Description: Student may contact the instructor or department for information.

LA 5401 Directed Studies in Emerging Areas of Landscape Architecture
1-3 credit(s), max credits 12, 12 completions allowed; prereq instr consent ;
Instructor: Sykes,Robert D
Description: Student may contact the instructor or department for information.

LA 5401 Directed Studies in Emerging Areas of Landscape Architecture
1-3 credit(s), max credits 12, 12 completions allowed; prereq instr consent ;
Instructor: Miller,Kristine Frances
Description: Student may contact the instructor or department for information.

LA 5401 Directed Studies in Emerging Areas of Landscape Architecture
1-3 credit(s), max credits 12, 12 completions allowed; prereq instr consent ;
Instructor: Musacchio,Laura R
Description: Student may contact the instructor or department for information.

LA 5402 Directed Studies in Landscape Architecture History and Theory
1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent ;
Instructor: Martin,Roger B
Description: Student may contact the instructor or department for information.

LA 5402 Directed Studies in Landscape Architecture History and Theory
1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent ;
Instructor: Krinke,Rebecca Jean
Description: Student may contact the instructor or department for information.

LA 5402 Directed Studies in Landscape Architecture History and Theory
1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent ;
Instructor: Koepke,John Albert
Description: Student may contact the instructor or department for information.

LA 5402 Directed Studies in Landscape Architecture History

and Theory
1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent ;
Instructor: Galatowitsch,Susan M
Description: Student may contact the instructor or department for information.

LA 5402 Directed Studies in Landscape Architecture History and Theory
1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent ;
Instructor: Pitt,David George
Description: Student may contact the instructor or department for information.

LA 5402 Directed Studies in Landscape Architecture History and Theory
1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent ;
Instructor: Hewitt,Clinton N
Description: Student may contact the instructor or department for information.

LA 5402 Directed Studies in Landscape Architecture History and Theory
1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent ;
Instructor: Sykes,Robert D
Description: Student may contact the instructor or department for information.

LA 5402 Directed Studies in Landscape Architecture History and Theory
1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent ;
Instructor: Miller,Kristine Frances
Description: Student may contact the instructor or department for information.

LA 5402 Directed Studies in Landscape Architecture History and Theory
1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent ;
Instructor: Musacchio,Laura R
Description: Student may contact the instructor or department for information.

LA 5403 Directed Studies in Landscape Architecture Technology
1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent ;
Instructor: Pitt,David George
Description: Student may contact the instructor or department for information.

LA 5403 Directed Studies in Landscape Architecture Technology
1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent ;
Instructor: Neckar,Lance M
Description: Student may contact the instructor or department for information.

LA 5403 Directed Studies in Landscape Architecture Technology
1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent ;
Instructor: Sykes,Robert D
Description: Student may contact the instructor or department for information.

LA 5403 Directed Studies in Landscape Architecture Technology
1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent ;

Instructor: Miller,Kristine Frances

Description: Student may contact the instructor or department for information.

LA 5403 Directed Studies in Landscape Architecture Technology

1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent ;

Instructor: Musacchio,Laura R

Description: Student may contact the instructor or department for information.

LA 5404 Directed Studies in Landscape Architecture Design

1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent ;

Instructor: Martin,Roger B

Description: Student may contact the instructor or department for information.

LA 5404 Directed Studies in Landscape Architecture Design

1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent ;

Instructor: Krinke,Rebecca Jean

Description: Student may contact the instructor or department for information.

LA 5404 Directed Studies in Landscape Architecture Design

1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent ;

Instructor: Koepke,John Albert

Description: Student may contact the instructor or department for information.

LA 5404 Directed Studies in Landscape Architecture Design

1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent ;

Instructor: Galatowitsch,Susan M

Description: Student may contact the instructor or department for information.

LA 5404 Directed Studies in Landscape Architecture Design

1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent ;

Instructor: Pitt,David George

Description: Student may contact the instructor or department for information.

LA 5404 Directed Studies in Landscape Architecture Design

1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent ;

Instructor: Neckar,Lance M

Description: Student may contact the instructor or department for information.

LA 5404 Directed Studies in Landscape Architecture Design

1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent ;

Instructor: Hewitt,Clinton N

Description: Student may contact the instructor or department for information.

LA 5404 Directed Studies in Landscape Architecture Design

1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent ;

Instructor: Sykes,Robert D

Description: Student may contact the instructor or department for information.

LA 5404 Directed Studies in Landscape Architecture Design

1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent ;

Instructor: Miller,Kristine Frances

Description: Student may contact the instructor or department for information.

LA 5404 Directed Studies in Landscape Architecture Design 1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent ;

Instructor: Musacchio,Laura R

Description: Student may contact the instructor or department for information.

LA 5405 Interdisciplinary Studies in Landscape Architecture

A-F only, 1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent;

Instructor: Martin,Roger B

Description: Research, planning, and/or design project. Topics may include energy efficient design, ecological dimension of design, historic preservation, downtown revitalization, agricultural land use, computerized land use planning, transportation and infrastructure housing.

LA 5405 Interdisciplinary Studies in Landscape Architecture

A-F only, 1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent;

Instructor: Krinke,Rebecca Jean

Description: Research, planning, and /or design projects. Topics vary.

LA 5405 Interdisciplinary Studies in Landscape Architecture

A-F only, 1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent;

Instructor: Koepke,John Albert

Description: Research, planning, and/or design project. Topics may include energy efficient design, ecological dimensions of design, historic preservation, downtown revitalization, agricultural land use, computerized land use planning, transportation, and infrastructure housing.

LA 5405 Interdisciplinary Studies in Landscape Architecture

A-F only, 1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent;

Instructor: Galatowitsch,Susan M

Description: Research, planning, and/or design projects. Topics vary.

LA 5405 Interdisciplinary Studies in Landscape Architecture

A-F only, 1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent;

Instructor: Pitt,David George

Description: Research, planning, and/or design projects. Topics vary.

LA 5405 Interdisciplinary Studies in Landscape Architecture

A-F only, 1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent;

Instructor: Neckar,Lance M

Description: Research, planning, and/or design projects. Topics vary.

LA 5405 Interdisciplinary Studies in Landscape Architecture

A-F only, 1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent;

Instructor: Hewitt,Clinton N

Description: Student may contact the instructor or department for information.

LA 5405 Interdisciplinary Studies in Landscape Architecture

A-F only, 1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent;

Instructor: Sykes,Robert D

Description: Research, planning, and/or design projects. Topics vary.

LA 5405 Interdisciplinary Studies in Landscape Architecture

A-F only, 1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent;

Instructor: Miller,Kristine Frances

Description: Student may contact the instructor or department for information.

LA 5405 Interdisciplinary Studies in Landscape Architecture**A-F only, 1-6 credit(s), max credits 12, 12 completions****allowed; prereq instr consent;****Instructor:** Musacchio,Laura R**Description:** Student may contact the instructor or department for information.**Architecture****1-6 credit(s), max credits 12, 12 completions allowed; prereq****instr consent ;****Instructor:** Koepke,John Albert**Description:** Student may contact the instructor or department for information.**LA 5571 Landscape Construction: Landform Systems and Spatial Performance****A-F only, 3 credit(s); prereq Accelerated BED student or LA grad student;****Instructor:** Favour,Joseph Richard**Description:** Theory and professional applications of landform systems for design. Topics include typology, representation methods, manipulation techniques, use of land survey data, earthwork construction issues, and spatial accommodation of vehicles in landscape architecture, including road design.**LA 8401 Directed Studies in Emerging Areas of Landscape Architecture****1-6 credit(s), max credits 12, 12 completions allowed; prereq****instr consent ;****Instructor:** Galatowitsch,Susan M**Description:** Student may contact the instructor or department for information.**LA 5572 Plants in Design****A-F only, 3 credit(s); prereq [5201, 5203, plant identification course] or instr consent ;****Instructor:** Krinke,Rebecca Jean**Description:** Student may contact the instructor or department for information.**LA 8401 Directed Studies in Emerging Areas of Landscape Architecture****1-6 credit(s), max credits 12, 12 completions allowed; prereq****instr consent ;****Instructor:** Pitt,David George**Description:** Student may contact the instructor or department for information.**LA 5574 Identification of Minnesota Flora****A-F only, 3 credit(s); prereq BED accelerated status or LA grad student or instr consent ;****Instructor:** Shaw,Daniel Byron**Description:** Student may contact the instructor or department for information.**LA 8401 Directed Studies in Emerging Areas of Landscape Architecture****1-6 credit(s), max credits 12, 12 completions allowed; prereq****instr consent ;****Instructor:** Neckar,Lance M**Description:** Student may contact the instructor or department for information.**LA 8201 Designing Landscapes for Dwelling and Settlement****A-F only, 6 credit(s); prereq 5203, 5571, grad LA major, concurrent enrollment 8202 or instr consent;****Instructor:** Neckar,Lance M**Description:** Student may contact the instructor or department for information.**LA 8401 Directed Studies in Emerging Areas of Landscape Architecture****1-6 credit(s), max credits 12, 12 completions allowed; prereq****instr consent ;****Instructor:** Hewitt,Clinton N**Description:** Student may contact the instructor or department for information.**LA 8203 Making Regional Landscape Space****A-F only, 6 credit(s); prereq 8202, grad LA major, concurrent enrollment 8204 or instr consent;****Instructor:** Musacchio,Laura R**Description:** A problem-oriented workshop about how landscape ecology, restoration ecology, landscape perception, regional economics, and public policy inform design and planning decision-making in urban and regional landscapes. Geographic information systems and remote sensing are used as an analysis, planning, and design tool.**LA 8401 Directed Studies in Emerging Areas of Landscape Architecture****1-6 credit(s), max credits 12, 12 completions allowed; prereq****instr consent ;****Instructor:** Sykes,Robert D**Description:** Student may contact the instructor or department for information.**LA 8301 Landscape Architecture: Research Issues and Methods****A-F only, 3 credit(s); prereq 8201 or concurrent enrollment 8201, grad LA major or instr consent;****Instructor:** Miller,Kristine Frances**Description:** Student may contact the instructor or department for information.**LA 8401 Directed Studies in Emerging Areas of Landscape Architecture****1-6 credit(s), max credits 12, 12 completions allowed; prereq****instr consent ;****Instructor:** Miller,Kristine Frances**Description:** Student may contact the instructor or department for information.**LA 8401 Directed Studies in Emerging Areas of Landscape Architecture****1-6 credit(s), max credits 12, 12 completions allowed; prereq****instr consent ;****Instructor:** Martin,Roger B**Description:** Student may contact the instructor or department for information.**LA 8401 Directed Studies in Emerging Areas of Landscape Architecture****1-6 credit(s), max credits 12, 12 completions allowed; prereq****instr consent ;****Instructor:** Musacchio,Laura R**Description:** Student may contact the instructor or department for information.**LA 8401 Directed Studies in Emerging Areas of Landscape Architecture****1-6 credit(s), max credits 12, 12 completions allowed; prereq****instr consent ;****Instructor:** Krinke,Rebecca Jean**Description:** Student may contact the instructor or department for information.**LA 8402 Directed Studies in Landscape Architecture History and Theory****1-6 credit(s), max credits 12, 12 completions allowed; prereq****Grad LA major or instr consent ;****Instructor:** Martin,Roger B**Description:** Student may contact the instructor or department for information.**LA 8401 Directed Studies in Emerging Areas of Landscape Architecture****LA 8402 Directed Studies in Landscape Architecture History and Theory****1-6 credit(s), max credits 12, 12 completions allowed; prereq****Grad LA major or instr consent ;**

Instructor: Krinke,Rebecca Jean

Description: Student may contact the instructor or department for information.

LA 8402 Directed Studies in Landscape Architecture History and Theory

1-6 credit(s), max credits 12, 12 completions allowed; prereq Grad LA major or instr consent ;

Instructor: Koepke,John Albert

Description: Student may contact the instructor or department for information.

LA 8402 Directed Studies in Landscape Architecture History and Theory

1-6 credit(s), max credits 12, 12 completions allowed; prereq Grad LA major or instr consent ;

Instructor: Galatowitsch,Susan M

Description: Student may contact the instructor or department for information.

LA 8402 Directed Studies in Landscape Architecture History and Theory

1-6 credit(s), max credits 12, 12 completions allowed; prereq Grad LA major or instr consent ;

Instructor: Pitt,David George

Description: Student may contact the instructor or department for information.

LA 8402 Directed Studies in Landscape Architecture History and Theory

1-6 credit(s), max credits 12, 12 completions allowed; prereq Grad LA major or instr consent ;

Instructor: Neckar,Lance M

Description: Student may contact the instructor or department for information.

LA 8402 Directed Studies in Landscape Architecture History and Theory

1-6 credit(s), max credits 12, 12 completions allowed; prereq Grad LA major or instr consent ;

Instructor: Hewitt,Clinton N

Description: Student may contact the instructor or department for information.

LA 8402 Directed Studies in Landscape Architecture History and Theory

1-6 credit(s), max credits 12, 12 completions allowed; prereq Grad LA major or instr consent ;

Instructor: Sykes,Robert D

Description: Student may contact the instructor or department for information.

LA 8402 Directed Studies in Landscape Architecture History and Theory

1-6 credit(s), max credits 12, 12 completions allowed; prereq Grad LA major or instr consent ;

Instructor: Miller,Kristine Frances

Description: Student may contact the instructor or department for information.

LA 8402 Directed Studies in Landscape Architecture History and Theory

1-6 credit(s), max credits 12, 12 completions allowed; prereq Grad LA major or instr consent ;

Instructor: Musacchio,Laura R

Description: Student may contact the instructor or department for information.

LA 8403 Directed Studies in Landscape Architecture Technology

1-6 credit(s), max credits 12, 12 completions allowed; prereq Grad LA major or instr consent ;

Instructor: Martin,Roger B

Description: Student may contact the instructor or department for information.

LA 8403 Directed Studies in Landscape Architecture Technology

1-6 credit(s), max credits 12, 12 completions allowed; prereq Grad LA major or instr consent ;

Instructor: Krinke,Rebecca Jean

Description: Student may contact the instructor or department for information.

LA 8403 Directed Studies in Landscape Architecture Technology

1-6 credit(s), max credits 12, 12 completions allowed; prereq Grad LA major or instr consent ;

Instructor: Koepke,John Albert

Description: Student may contact the instructor or department for information.

LA 8403 Directed Studies in Landscape Architecture Technology

1-6 credit(s), max credits 12, 12 completions allowed; prereq Grad LA major or instr consent ;

Instructor: Galatowitsch,Susan M

Description: Student may contact the instructor or department for information.

LA 8403 Directed Studies in Landscape Architecture Technology

1-6 credit(s), max credits 12, 12 completions allowed; prereq Grad LA major or instr consent ;

Instructor: Pitt,David George

Description: Student may contact the instructor or department for information.

LA 8403 Directed Studies in Landscape Architecture Technology

1-6 credit(s), max credits 12, 12 completions allowed; prereq Grad LA major or instr consent ;

Instructor: Neckar,Lance M

Description: Student may contact the instructor or department for information.

LA 8403 Directed Studies in Landscape Architecture Technology

1-6 credit(s), max credits 12, 12 completions allowed; prereq Grad LA major or instr consent ;

Instructor: Hewitt,Clinton N

Description: Student may contact the instructor or department for information.

LA 8403 Directed Studies in Landscape Architecture Technology

1-6 credit(s), max credits 12, 12 completions allowed; prereq Grad LA major or instr consent ;

Instructor: Sykes,Robert D

Description: Student may contact the instructor or department for information.

LA 8403 Directed Studies in Landscape Architecture Technology

1-6 credit(s), max credits 12, 12 completions allowed; prereq Grad LA major or instr consent ;

Instructor: Miller,Kristine Frances

Description: Student may contact the instructor or department for information.

LA 8403 Directed Studies in Landscape Architecture Technology

1-6 credit(s), max credits 12, 12 completions allowed; prereq Grad LA major or instr consent ;

Instructor: Musacchio,Laura R

Description: Student may contact the instructor or department for information.

LA 8404 Directed Studies in Landscape Architecture Design

1-6 credit(s), max credits 6, 1 completion allowed; prereq Grad LA major or instr consent ;

Instructor: Martin,Roger B

Description: Student may contact the instructor or department for information.

LA 8404 Directed Studies in Landscape Architecture Design

1-6 credit(s), max credits 6, 1 completion allowed; prereq Grad LA major or instr consent ;

Instructor: Krinke,Rebecca Jean

Description: Student may contact the instructor or department for information.

LA 8404 Directed Studies in Landscape Architecture Design

1-6 credit(s), max credits 6, 1 completion allowed; prereq Grad LA major or instr consent ;

Instructor: Koepke,John Albert

Description: Student may contact the instructor or department for information.

LA 8404 Directed Studies in Landscape Architecture Design

1-6 credit(s), max credits 6, 1 completion allowed; prereq Grad LA major or instr consent ;

Instructor: Galatowitsch,Susan M

Description: Student may contact the instructor or department for information.

LA 8404 Directed Studies in Landscape Architecture Design

1-6 credit(s), max credits 6, 1 completion allowed; prereq Grad LA major or instr consent ;

Instructor: Pitt,David George

Description: Student may contact the instructor or department for information.

LA 8404 Directed Studies in Landscape Architecture Design

1-6 credit(s), max credits 6, 1 completion allowed; prereq Grad LA major or instr consent ;

Instructor: Hewitt,Clinton N

Description: Student may contact the instructor or department for information.

LA 8404 Directed Studies in Landscape Architecture Design

1-6 credit(s), max credits 6, 1 completion allowed; prereq Grad LA major or instr consent ;

Instructor: Sykes,Robert D

Description: Student may contact the instructor or department for information.

LA 8404 Directed Studies in Landscape Architecture Design

1-6 credit(s), max credits 6, 1 completion allowed; prereq Grad LA major or instr consent ;

Instructor: Miller,Kristine Frances

Description: Student may contact the instructor or department for information.

LA 8404 Directed Studies in Landscape Architecture Design

1-6 credit(s), max credits 6, 1 completion allowed; prereq Grad LA major or instr consent ;

Instructor: Musacchio,Laura R

Description: Student may contact the instructor or department for information.

LA 8405 Interdisciplinary Studies in Landscape Architecture

A-F only, 1-6 credit(s), max credits 12, 12 completions allowed; prereq Grad LA major or instr consent;

Instructor: Martin,Roger B

Description: Student may contact the instructor or department for information.

LA 8405 Interdisciplinary Studies in Landscape Architecture

A-F only, 1-6 credit(s), max credits 12, 12 completions allowed; prereq Grad LA major or instr consent;

Instructor: Krinke,Rebecca Jean

Description: Student may contact the instructor or department for information.

LA 8405 Interdisciplinary Studies in Landscape Architecture

A-F only, 1-6 credit(s), max credits 12, 12 completions allowed; prereq Grad LA major or instr consent;

Instructor: Koepke,John Albert

Description: Student may contact the instructor or department for information.

LA 8405 Interdisciplinary Studies in Landscape Architecture

A-F only, 1-6 credit(s), max credits 12, 12 completions allowed; prereq Grad LA major or instr consent;

Instructor: Galatowitsch,Susan M

Description: Student may contact the instructor or department for information.

LA 8405 Interdisciplinary Studies in Landscape Architecture

A-F only, 1-6 credit(s), max credits 12, 12 completions allowed; prereq Grad LA major or instr consent;

Instructor: Pitt,David George

Description: Student may contact the instructor or department for information.

LA 8405 Interdisciplinary Studies in Landscape Architecture

A-F only, 1-6 credit(s), max credits 12, 12 completions allowed; prereq Grad LA major or instr consent;

Instructor: Neckar,Lance M

Description: Student may contact the instructor or department for information.

LA 8405 Interdisciplinary Studies in Landscape Architecture

A-F only, 1-6 credit(s), max credits 12, 12 completions allowed; prereq Grad LA major or instr consent;

Instructor: Hewitt,Clinton N

Description: Student may contact the instructor or department for information.

LA 8405 Interdisciplinary Studies in Landscape Architecture

A-F only, 1-6 credit(s), max credits 12, 12 completions allowed; prereq Grad LA major or instr consent;

Instructor: Sykes,Robert D

Description: Student may contact the instructor or department for information.

LA 8405 Interdisciplinary Studies in Landscape Architecture

A-F only, 1-6 credit(s), max credits 12, 12 completions allowed; prereq Grad LA major or instr consent;

Instructor: Miller,Kristine Frances

Description: Student may contact the instructor or department for information.

LA 8405 Interdisciplinary Studies in Landscape Architecture

A-F only, 1-6 credit(s), max credits 12, 12 completions allowed; prereq Grad LA major or instr consent;

Instructor: Musacchio,Laura R

Description: Student may contact the instructor or department for information.

LA 8554 Project Programming

A-F only, 1 credit(s), max credits 3, 1 completion allowed; prereq 8203, grad land arch major or instr consent;

Instructor: deBritto,Vincent P

Description: Student may contact the instructor or department for information.

LA 8574 Landscape Storm Water Management

3 credit(s); prereq 8201, grad land arch major or instr consent ;

Instructor: Wedul,Andrea M

Description: Student may contact the instructor or department for information.

**Language, Teaching, and
Technology**
110 Jones Hall

LGTT 5710 Special Topics in Language Teaching and Technology: Using Web 2.0 Tools in 2nd Lang. Teaching & Tech.
2 credit(s), max credits 6, 3 completions allowed;
Instructor: Ruesch,Alyssa Marie
Description: Student may contact the instructor or department for information.

Latin 245 Nicholson Hall

LAT 1001 Beginning Latin I
5 credit(s); Credit will not be granted if credit has been received for: LAT 5001;
Instructor: STAFF
Description: Latin, the language of the ancient Romans, has served as a means of communication for well over two thousand years. It is not only the chief language of one of the world's major civilizations, but also an international language for centuries after Rome's fall, the ancestor of the Romance languages, and an important influence on English. The aim of Beginning Latin is to prepare you to read unadapted Latin texts by providing a solid grounding in grammar and vocabulary along with oral and written practice. With this foundation you will be able to read a wide range of ancient, medieval, and Renaissance authors. In addition, Latin 1001 will help strengthen your grasp of English grammar and vocabulary. There is no prerequisite for this course.
Style: 50% Lecture, 50% Discussion. recitation
Exam Format: translation, grammar

LAT 3003 Intermediate Latin Prose
4 credit(s); prereq Grade of at least [C- or S] in [1002 or 5001] or instr consent credit will not be granted if credit already received for: Lat 3113; Credit will not be granted if credit has been received for: LAT 5003;
Instructor: STAFF
Description: An introduction to reading unadapted Latin prose from classical authors such as Caesar, Cicero and Pliny. The course includes some grammar review but also considers literary issues (e.g. conventions of public speaking, Roman letters as a genre) and situates the works we study in their historical context.
Exam Format: Translation/comment

LAT 5003 Intermediate Latin Prose: Graduate Student Enrollment
3 credit(s); prereq [Grade of at least [C- or S] in [1002 or 5001] or instr consent], grad student credit will not be granted if credit already received for: 3113, 8120; Credit will not be granted if credit has been received for: LAT 3003;
Instructor: Smith,Stephen
Description: Student may contact the instructor or department for information.

LAT 5003 Intermediate Latin Prose: Graduate Student Enrollment
3 credit(s); prereq [Grade of at least [C- or S] in [1002 or 5001] or instr consent], grad student credit will not be granted if credit already received for: 3113, 8120; Credit will not be granted if credit has been received for: LAT 3003;
Instructor: Woods,Heather A
Description: Student may contact the instructor or department for information.

LAT 5003 Intermediate Latin Prose: Graduate Student Enrollment
3 credit(s); prereq [Grade of at least [C- or S] in [1002 or 5001] or instr consent], grad student credit will not be granted if credit already received for: 3113, 8120; Credit will not be granted if credit has been received for: LAT 3003;
Instructor: Hamm,Richard James
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; prereq 3004 or equiv or instr consent ; Credit will not be granted if credit has been received for: LAT 5004;
Instructor: Nicholson,Oliver
Description: Student may contact the instructor or department for information.

LAT 8100 Readings in Latin Prose
3 credit(s), max credits 18, 6 completions allowed; prereq Advanced grad student;
Instructor: Gallia,Andrew B
Description: The topic for this semester will be Sallust and his Age. We will read and discuss what remains of Sallust's works (the monographs on the Catilinarian and Jugurthine wars and selected fragments of the Histories), and seek to place this work in its historical and cultural context.
Style: 100% Discussion.

LAT 8200 Readings in Latin Verse
3 credit(s), max credits 18, 6 completions allowed; prereq Advanced grad student;
Instructor: Krevans,Nita
Description: Odes and Epodes of Horace An overview of Horace as a lyric poet. Topics covered will include Horace's archaic models, the poetry book, 'Greek' and 'Roman' in the odes, genre and metrics, performance vs. reading.

Latin American Studies 214 Social Sciences Tower

LAS 3401W Early Latin America to 1825
A-F only, 4 credit(s); Credit will not be granted if credit has been received for: HIST 3401W; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme; meets CLE req of Writing Intensive;
Instructor: Chambers,Sarah C
Description: In 1519, Spaniard Hernan Cortes entered the dazzling capital city of the Mexica (Aztec) empire; what happened next depends upon whose versions of events you read. European accounts emphasize his daring capture of emperor Moctezuma and his rapid domination of central Mexico by the use of his wits and superior technology. Native accounts reveal that the capture of Moctezuma backfired, leading to a lengthy and heroic defense of the island city. Regardless of the telling, such encounters and struggles set the stage for European rule of the Americas for the next three centuries. This course begins with pre-contact Native American societies, but primarily explores the historical processes of colonialism in Latin America (especially Mexico, Brazil and Peru) between 1492 and 1825. We will study both the economic,religious, and administrative systems put in place by the Europeans, and the varied responses of indigenous peasants, African slaves, racially-mixed town dwellers, and women. We will learn to analyze primary documents from the period (such as the competing accounts of the conquest of Mexico) and read life stories as well as historical narratives. All students register for a discussion section. If you would like to practice your Spanish, sign up for the FLAC Section 5, in which you can read and discuss documents in the original Spanish. (Spanish majors: you can count this as your one degree course outside your department under the new rules).
Style: 65% Lecture, 35% Discussion. .
Grading: 20% final exam, 50% reports/papers, 15% quizzes, 15% class participation.
Exam Format: i.d. terms and short essays

LAS 4121W Latin America
3 credit(s); Credit will not be granted if credit has been received for: GEOG 4121W; Meets CLE req of Environment Theme; meets CLE req of International Perspect Theme; meets CLE req of Writing Intensive;
Instructor: Weil,Connie

Description: Student may contact the instructor or department for information.

Law School

285 Mondale Hall

LAW 6001 Contracts

A-F only, 4 credit(s);

Instructor: Chomsky,Carol L

Description: Student may contact the instructor or department for information.

LAW 6001 Contracts

A-F only, 4 credit(s);

Instructor: Matheson,John H

Description: Student may contact the instructor or department for information.

LAW 6001 Contracts

A-F only, 4 credit(s);

Instructor: Bix,Brian H

Description: Student may contact the instructor or department for information.

LAW 6001 Contracts

A-F only, 4 credit(s);

Instructor: Okediji,Ruth L

Description: Student may contact the instructor or department for information.

LAW 6001 Contracts

A-F only, 4 credit(s);

Instructor: Schwarcz,Daniel

Description: Student may contact the instructor or department for information.

LAW 6003 Legal Research and Writing

P-F only, 1-3 credit(s), max credits 6; prereq dept consent;

Instructor: STAFF

Description: Student may contact the instructor or department for information.

LAW 6005 Torts

A-F only, 4 credit(s);

Instructor: Weissbrodt,David

Description: Student may contact the instructor or department for information.

LAW 6005 Torts

A-F only, 4 credit(s);

Instructor: Klass,Alexandra B.

Description: Student may contact the instructor or department for information.

LAW 6005 Torts

A-F only, 4 credit(s);

Instructor: Goodwin,Michele Bratcher

Description: Student may contact the instructor or department for information.

LAW 6006 Civil Procedure

A-F only, 3-6 credit(s), max credits 12; prereq dept consent;

Instructor: STAFF

Description: Student may contact the instructor or department for information.

LAW 6007 Constitutional Law

A-F only, 3-6 credit(s), max credits 6;

Instructor: STAFF

Description: Student may contact the instructor or department for information.

LAW 6014 Constitutional Law II

A-F only, 3 credit(s);

Instructor: Kitrosser,Heidi

Description: Student may contact the instructor or department for information.

LAW 6017 Humphrey Law Course

P-F only, 2-3 credit(s), max credits 6;

Instructor: Arimond,Lucy

Description: Student may contact the instructor or department for information.

LAW 6020 Introduction to American Law

A-F only, 2 credit(s);

Instructor: Kruger,Muria J

Description: Student may contact the instructor or department for information.

LAW 6021 Seminar: LL.M. Legal Research and Writing

A-F only, 2-3 credit(s), max credits 6; prereq LL.M. student;

Instructor: STAFF

Description: How to conduct legal research, interpret statutes, analyze cases, and write research papers and legal memoranda. Written English, style/form used by U.S. lawyers to present a legal argument.

LAW 6025 Wrongful Convictions

A-F only, 2 credit(s);

Instructor: STAFF

Description: Causes of wrongful convictions. Students practice law in safe, classroom setting. Run in conjunction with Innocence Project of MN.

LAW 6030 Contemporary Problems in Freedom on Speech and Press

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: JOUR 5777;

Instructor: STAFF

Description: Student may contact the instructor or department for information.

LAW 6036 Reproductive Rights

A-F only, 3 credit(s);

Instructor: STAFF

Description: Legal foundations/social implications of regulating contraception, abortion, and alternative reproductive technology. Access, funding. Rights of men, women, minors, and fetuses. Ethical considerations, international perspectives. Cases, statutes, critical writings.

LAW 6037 Nanotechnology and Society Seminar

A-F only, 3 credit(s);

Instructor: Kuzma,Jennifer

Description: Student may contact the instructor or department for information.

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 6039 Great Cases

A-F only, 3 credit(s);

Instructor: Stein,Robert A

Description: Student may contact the instructor or department for information.

LAW 6048 Financial Market Analysis for Lawyers

A-F only, 2 credit(s);

Instructor: Nguyen,Dennis Luan Thuc

Description: Student may contact the instructor or department for information.

LAW 6049 Unincorporated Business Associations

A-F only, 3 credit(s);**Instructor:** McDonnell, Brett H**Description:** Student may contact the instructor or department for information.**LAW 6051 Business Associations/Corporations I****A-F only, 4 credit(s);****Instructor:** STAFF**Description:** The initial part of this course is an introduction to the general law of multi-person unincorporated business organizations, principally partnerships, limited partnerships and limited liability companies. Matters covered include the procedures for forming such organizations and the rights and obligations of the participants as among themselves and with respect to third persons. The remaining class hours constitute the first portion of the basic Corporations course, and will cover such matters as corporate organization; the distribution of powers among the corporate board of directors, its officers and its stockholders; the proxy system; control devices in the close corporation; and the fiduciary duties of directors, officers and controlling shareholders. Matters dealing with "corporate finance" (issuance of shares, payment of dividends, and corporate reorganizations) are covered Corporations II.**LAW 6057 Judicial Externship****P-F only, 2-3 credit(s), max credits 3, 1 completion allowed;****Instructor:** STAFF**Description:** Each student is assigned to a judge and serves as a part-time law clerk for one semester. Positions are available with federal district, bankruptcy, and magistrate judges, with state court of appeals and district court judges, and with tribal courts. Every effort is made to place students according to their expressed preferences among the courts. The students prepare research memoranda, observe judicial proceedings, and participate in the drafting of opinions and orders. A student will work for a judge for 100 hours (2 credits) or for 150 hours (3 credits), as agreed with the judge. In addition, students will periodically attend a one hour seminar in which readings on the judicial process will be discussed and will view a judicial training session. Enrollment is limited to 30 students. The periodic class meetings will be held during the noon hour. A complete schedule will be distributed at the first class meeting. You should arrange your class schedule so you have several large blocks of time available to work for a judge; free mornings are especially important for attending court hearings.**LAW 6058 Human Rights Advocacy****A-F only, 3 credit(s);****Instructor:** STAFF**Description:** Student may contact the instructor or department for information.**LAW 6060 Law, Public Policy, and Domestic Violence****A-F only, 3 credit(s);****Instructor:** Balos, Beverly**Description:** Student may contact the instructor or department for information.**LAW 6100 Taxation I****A-F only, 3-4 credit(s);****Instructor:** STAFF**Description:** This basic course in federal income taxation introduces the student to the Internal Revenue Code and the income taxation of individuals through the following topics: definition of income, relevant accounting concepts, exclusions, deductions, income splitting, sales and dispositions of property, amortization, capital losses, and current issues of tax policy.**LAW 6106 Federal Tax Procedure****A-F only, 2 credit(s);****Instructor:** STAFF**Description:** Overview of all major IRS functions including returns selection, examinations, administrative appeals, tax litigation, collection activities (liens and levies), bankruptcy, and criminal tax enforcement. Effective representation of clients in all phases of ITS encounters.**LAW 6109 Creditors' Remedies/Secured Transactions****A-F only, 3-4 credit(s), max credits 4, 1 completion allowed;****Instructor:** STAFF**Description:** Student may contact the instructor or department for information.**LAW 6118 Criminal Appeals Clinic****A-F only, 2 credit(s);****Instructor:** STAFF**Description:** Students will prepare an appellate brief on behalf of an indigent criminal defendant under the supervision of the Office of the State Public Defender. Students will be required to evaluate the trial record, research possible legal issues, and write an appellate brief that will be submitted to the Minnesota Court of Appeals. Stringent time requirements for the filing of the brief as set by the appellate court must be met. The class will meet as a group two or three times; students also will meet with the supervising attorney individually prior to filing the brief.**LAW 6152 Federal Jurisdiction****A-F only, 3 credit(s);****Instructor:** Stras, David Ryan**Description:** This three-credit course will cover approximately half of a traditional five- or six-credit "Federal Courts" curriculum; the other half is covered in "Federal and State Courts." Students may take either course or both courses, in any order. This course will explore issues that were raised in Constitutional Law and Civil Procedure regarding federal courts and the interactions between the federal and state judicial systems. Topics discussed may include Congressional power over jurisdiction, legislative courts, justiciability, appellate jurisdiction, Supreme Court review over state court decisions, and general principles of federal subject matter jurisdiction. This course is important for anyone planning a judicial clerkship or a legal career that includes litigation in federal courts.**LAW 6153 Wills and Trusts****A-F only, 3-4 credit(s), max credits 4, 1 completion allowed;****Instructor:** STAFF**Description:** This course deals with donative freedom. It covers intestate succession, wills, trusts, will substitutes, the rudiments of gifts and estate taxation, and future interests. It also raises professional responsibility issues unique to the estate planning process. The goal of the course is to allow students to become familiar with the field and to prepare them for study in other courses and seminars.**LAW 6201 Land Use Planning****A-F only, 3 credit(s);****Instructor:** Burkhart, Ann M**Description:** Student may contact the instructor or department for information.**LAW 6202 Conflicts****A-F only, 3 credit(s);****Instructor:** Cooper, Laura J**Description:** How does a court decide what law to apply in a case with multi-state aspects? When is a judgment of another jurisdiction binding elsewhere? Vital course for prospective litigators in state and federal courts. A lawyer who has not taken this course would be unlikely even to be able spot the critical issues.**LAW 6203 Labor Law****A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;****Instructor:** STAFF**Description:** This course focuses upon the system of federal law regulating labor-management relations. Examines procedures for union representation elections and the control of electioneering conduct, union collective action and collective bargaining.**LAW 6207 Antitrust I****A-F only, 3 credit(s);****Instructor:** STAFF**Description:** The course in Antitrust will focus on competition,

how that term has been defined by the court and agencies, and the role that competition plays in society. We will study the federal antitrust statutes and the case interpretation and application of those statutes. To put antitrust in perspective, the interdisciplinary nature of the subject will be emphasized, including the historical debates, enforcement trends and economic theories. The antitrust substantive law will cover horizontal restraints (between competitors), vertical restraints (franchise or distributional restrictions), monopolies (market power) and mergers. We also will focus on procedural issues relevant in both public and private enforcement suits. The goals and objectives of the course are to teach: 1) the substantive law of antitrust, 2) the relevant procedural and litigation issues, 3) the economic analysis of antitrust issues and 4) the historical and doctrinal development of antitrust. There will be a final examination. Grades will be based on the final exam, which will be an essay exam, and classroom contribution. Regular class attendance and participation are expected.

LAW 6213 Modern Real Estate**A-F only, 3 credit(s);****Instructor:** STAFF

Description: The course examines the acquisition and development of real property. Topics include listing agreements, purchase agreements, conveyancing, real estate finance and security instruments, foreclosure, mechanics' liens, and forms of real estate development.

LAW 6218 Criminal Procedure**A-F only, 3 credit(s);****Instructor:** STAFF

Description: Procedural aspects of the investigation and adjudication of criminal violations. Fourth, Fifth and Sixth Amendment Federal Constitutional limitations on the gathering and presenting of evidence and at trial will be emphasized.

LAW 6219 Evidence**A-F only, 3-4 credit(s), max credits 4, 1 completion allowed;****Instructor:** STAFF

Description: A study of relevance, admission and exclusion of evidence, direct and cross-examination, judicial notice, hearsay, expert testimony, burdens of proof and presumptions, privileged communications. A study of relevance, admission and exclusion of evidence, direct and cross-examination, judicial notice, hearsay, expert testimony, burdens of proof and presumptions, privileged communications.

LAW 6220 Poverty Law**A-F only, 3 credit(s);****Instructor:** STAFF

Description: This course reviews constitutional, federal, state and municipal law as they specifically affect low income persons. We review the history of anti-poverty programs, the constitutional requirements for such programs, and specific problems in conducting legal research on poverty law programs. The course does not have an exam, but will have five short research assignments.

LAW 6224 Patents**A-F only, 2-3 credit(s);****Instructor:** STAFF

Description: This course offers an overview of patent law for both those students intending to specialize in patent prosecution and those whose general practice may include patent litigation and licensing. Topics to be covered include the requirements for patentable subject matter; standards of novelty, utility, and non-obviousness; statutory bars; conception, priority, enablement, and written description requirements in patent procurement; direct and vicarious patent infringement; claims interpretation

LAW 6227 Seminar: Products Liability**A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;****Instructor:** STAFF

Description: The recent explosive expansion of common law and statutory rights and remedies designed to protect consumers

from defective and dangerous products.

LAW 6231 Seminar: Patent Prosecution Practice**A-F only, 2 credit(s);****Instructor:** STAFF

Description: This course focuses on preparation of patent applications and prosecution before the United States Patent and Trademark Office. Topics include types of patent applications, inventor interviews, analysis of prior art, preparation of the patent specification, claim drafting, inventorship determination, ownership determination, amendment practice, and argument practice, with coverage of U.S. law and regulations governing patent prosecution practice. The course is highly practical and will include a number of drafting assignments. A technical background is not required to take this course.

LAW 6236 Federal Indian Law**A-F only, 3 credit(s);****Instructor:** STAFF

Description: This course covers the unique jurisdictional, regulatory and business environment on Indian reservations and involving Indian people in the United States. The core of the course involves developing an understanding of the relationship between the United States, the Indian tribes, and states, and issues that arise under the tripartite federalist system in the United States. It also reaches issues of sovereignty, race theory, separation of powers, and several substantive law fields, including criminal law, natural resources, constitutional law, tax law, and sovereign immunity. For purposes of context, the course also touches on the development of Indian policy over the past two and a half centuries and also discusses some facets of internal tribal laws and tribal courts.

LAW 6241 First Amendment Law**A-F only, 3 credit(s);****Instructor:** STAFF

Description: An in-depth inquiry into the First Amendment, including both the doctrine and theory of free expression. Topics will include political incitement and public fora; hate speech; obscenity and pornography; campaign finance reform and commercial speech; mass media regulation and access to government and compelled speech and associational rights. The religion clauses may also be covered. Religion clause coverage may include school prayer and parochial school vouchers; religious exemptions and accommodation; and government-sponsored religious symbols.

LAW 6244 Employee Benefits**A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;****prereq Taxation I;****Instructor:** STAFF

Description: The course is a general introduction to employee benefit plans, including retirement-type plans (401ks and traditional pension plans) and health and welfare plans. The public policies behind the very complex rules governing these plans are emphasized to assist understanding of the purpose and goals of the regulatory framework. Practical real-life application of these rules in law practice will be routinely included. The grade will be based solely on a short-essay, open book final exam.

LAW 6245 Interviewing, Counseling, and Negotiating**A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;****prereq dept consent ;****Instructor:** STAFF

Description: This course will focus on basic skills necessary for all lawyers. We will discuss and do simulated exercises in each of the skills, focusing on skill development and self-reflection to improve skills. The course will emphasize planning, performance and reflection over a range of civil and criminal cases.

LAW 6402 Food and Drug Law**A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;****Instructor:** STAFF

Description: The primary focus of the class will be on the Food,

Drug and Cosmetic Act and the FDA. In addition, time will be spent on specific food and drug aspects of other areas of the law. For example, the class will review the special rules and cases in the product liability field relating to food and drugs and the interface between food and drug regulation and subjects such as environmental law, the practice of medicine, and free choice in medical care

LAW 6600 Professional Responsibility

A-F only, 2-3 credit(s);

Instructor: STAFF

Description: Examination of the role and function of the legal profession in our society and the principles, standards and rules governing ethics of the profession and their enforcement.

LAW 6602 International Law

A-F only, 3 credit(s);

Instructor: STAFF

Description: The course is an introduction to public international law. It will examine the sources and history of the law of nations, and concepts of jurisdiction and conflicts of jurisdiction of nation states. It will also provide a brief survey of the law of international organizations (including the United Nations) international economic law, international environmental law, international protection of human rights, dispute resolution, and the control of the use of force (including peacekeeping, war crimes, and related topics).

LAW 6603 Intellectual Property

A-F only, 2-4 credit(s), max credits 4, 1 completion allowed; prereq dept consent ;

Instructor: STAFF

Description: This course provides a broad survey of the laws governing most areas of intellectual property including trademark, trade secret, copyright, computer chip protection and some patent law, as well as a survey of laws governing unethical and deceptive business practices. An examination of the extent and limits of federal preemption of state laws governing intellectual property rights forms a secondary (but important) part of the course. There are no prerequisites to this course. An interest in business practices and problems arising from rivalry among business firms will be helpful as will be an interest in stimuli to innovation in a competitive economy. Most of the material is case law, but the coursework will require that students become familiar with statutory provisions governing trademarks, copyrights, patents and computer chip protection.

LAW 6606 Administrative Law

A-F only, 3 credit(s);

Instructor: STAFF

Description: Law governing judicial review of the decisions of government officials and agencies. Decisions of federal and state officials subject to various kinds of judicial review range from regulatory decisions by public service commissions governing the rates of suppliers of electricity and local telephone service to decisions governing entitlement to benefits under welfare programs. Some decisions have wide-ranging social and economic effects such as rulemaking decisions under the Clean Air Act while the impact of other decisions may be limited to a few individuals. The course is designed to assist motivated students to acquire the skills necessary to master a complex and difficult body of law.

LAW 6613 Copyright

A-F only, 3 credit(s);

Instructor: Okediji, Ruth L

Description: Student may contact the instructor or department for information.

LAW 6618 Trial Practice

A-F only, 3 credit(s); prereq Evidence;

Instructor: STAFF

Description: Selected problems in litigation. Exercises in jury selection, introduction of evidence, expert testimony, direct and cross examination and impeachment of witnesses, opening statements and closing arguments.

LAW 6619 International Trade Law

A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;

Instructor: STAFF

Description: This course is designed to familiarize the students with the regulatory system of international trade. Through the materials discussed in the course, focusing on the case law and jurisprudence of the WTO/GATT, the course is aimed at understanding the institutional framework of that system and the ways in which it functions. In addition the course deals with a large number of substantive issues to be found on the agenda of international trade scholars and lawyers. While the course is focused on legal theory and doctrine of international trade, we will approach each and every topic from economic and social perspectives. Thus, the course is designed to follow a truly interdisciplinary tour of the relevant subject-matter. The issues covered in the course include: Theory and Policy of International Trade; The Legal Structure of the GATT/WTO System; Dispute Settlement; Tariff Bindings and Customs Law: Classification, Valuation and Rules of Origin; Quotas; The Most-Favored-Nation (MFN) Principle; Multilateralism and Regionalism; The National Treatment Clause, Discriminatory Taxes and Regulations; Government Procurement; Escape Clauses and Safeguards; Dumping and Antidumping Law; Subsidies and Countervailing Duties; Trade and Intellectual Property Rights: the TRIPS Agreement; Trade in Services: the GATS; Trade and the environment; and Technical Regulations and Standards: the SPS & TBT Agreements.

LAW 6625 Disability Law

A-F only, 3 credit(s);

Instructor: STAFF

Description: Explore legal issues relating to disability in the context of employment relationship. Principal focus on application of Americans with Disabilities Act to the workplace. Include the Family and Medical Leave Act and workers compensation system.

LAW 6632 Employment Law

A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;

Instructor: STAFF

Description: This course explores the rapidly expanding body of law governing the workplace. The Employment Law course goes beyond the traditional employment fields of Labor Law (union/management relations) and Employment Discrimination to focus on a number of recurring workplace issues. Topics include medical and drug screening, workplace privacy, the emerging exceptions to the employment-at-will doctrine, wage and hour regulation, and occupational safety and health.

LAW 6702 Seminar: Legal History Workshop

A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;

Instructor: Welke, Barbara Young

Description: Student may contact the instructor or department for information.

LAW 6801 Seminar: Death Penalty

A-F only, 2 credit(s);

Instructor: STAFF

Description: This seminar focuses on the substantive law of capital punishment and on the procedural aspects of post-conviction proceedings. The course will include an examination of the history of death penalty jurisprudence, the Antiterrorism and Effective Death Penalty Act of 1996, habeas corpus, and state and federal death penalty statutes. A paper of 20 to 30 pages will be required. Guest speakers will attend the seminar from time to time throughout the semester. This seminar focuses on the substantive law of capital punishment and on the procedural aspects of post-conviction proceedings. The course will include an examination of the history of death penalty jurisprudence, the Antiterrorism and Effective Death Penalty Act of 1996, habeas corpus, and state and federal death penalty statutes. A paper of 20 to 30 pages will be required. Guest speakers will attend the seminar from time to time throughout the semester.

LAW 6810 Seminar: MBA Concepts for Lawyers

A-F only, 2 credit(s);**Instructor:** Adams,Edward Scott**Description:** Student may contact the instructor or department for information.**LAW 6811 Seminar: Complex Litigation****A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;****Instructor:** STAFF**Description:** Student may contact the instructor or department for information.**LAW 6812 Statistics for Lawyers****A-F only, 3-4 credit(s), max credits 4, 1 completion allowed;****Instructor:** Kritzer,Herbert M**Description:** Student may contact the instructor or department for information.**LAW 6814 Seminar: RICO****A-F only, 2 credit(s);****Instructor:** STAFF**Description:** Racketeering Influenced and Corrupt Organizations Act (RICO) 18 U.S.C. 1961This course concerns litigation under the federal RICO statute.**LAW 6829 Seminar: Health Care Transactions****A-F only, 2 credit(s);****Instructor:** STAFF**Description:** This seminar will explore various federal and state regulations that affect structure of health care transactions. We will focus on Medicare Fraud & Abuse Law, Stark Law, IRS tax exemption regulations, various licensure requirements, corp practice of medicine prohibitions, federal antitrust law, HIPAA reg governing privacy and security of health info.**LAW 6831 Law, Race, and Social Psychology****A-F only, 3 credit(s);****Instructor:** STAFF**Description:** Study of how the law affects race and social psychology.**LAW 6834 Seminar: Habeas Corpus****Law only, 2 credit(s);****Instructor:** Nelson,Debra R**Description:** Student may contact the instructor or department for information.**LAW 6837 Seminar: Contract Drafting****A-F only, 2 credit(s);****Instructor:** STAFF**Description:** This seminar will take the contract principles that students learned in their first year and build upon them in a practical way. Students will review and revise contracts, draft sample provisions, draft contracts from "scratch" and discuss options for managing risk through effective drafting. This seminar will take the contract principles that students learned in their first year and build upon them in a practical way. Students will review and revise contracts, draft sample provisions, draft contracts from "scratch" and discuss options for managing risk through effective drafting. Prerequisites: None**LAW 6840 Seminar: Antitrust****A-F only, 2 credit(s);****Instructor:** STAFF**Description:** This seminar is intended to focus upon a series of major issues of current importance. During the first half of the semester, the seminar will take up a separate issue every one or two weeks. The issues will include (not necessarily in the following order):1. Antitrust analysis in the Chicago and post-Chicago schools2. The antitrust law of the European Community examined from the perspective of a U.S. antitrust lawyer.3. Trading issues and their relation to antitrust law.4. Antitrust and the health care industry.5. Antitrust laws and the issues of intellectual property protection.6. The interface between antitrust law and labor law.7. The state-action doctrine, municipalities, and the antitrust laws.**LAW 6848 Seminar: Art of Appellate Advocacy****A-F only, 2 credit(s);****Instructor:** STAFF**Description:** Practical experience in making an effective appellate argument, both orally and in writing; analysis of the appellate decision-making process; the basis of perfecting an appeal. Prerequisites: Some knowledge of civil procedure helpful, but not necessary.**LAW 6850 Seminar: Criminal Punishment****A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;****Instructor:** STAFF**Description:** This seminar addresses the history, underlying criminological theories, current practices, and proposals for reform of criminal punishment in America.**LAW 6851 Seminar: Advanced Legal Research****A-F only, 2 credit(s);****Instructor:** STAFF**Description:** Limited enrollment seminar (30 students) emphasizing legal research strategies and practical use of secondary source materials, administrative law materials, government documents and legal non-legal databases. Students are expected to complete short research problems and produce a research guide in a specialized area. Attendance is required. This course satisfies the senior writing requirement.**LAW 6875 Seminar: Law, Health, and Life Sciences****P-F only, 1 credit(s); prereq dept consent;****Instructor:** STAFF**Description:** Many of the most challenging issues of the 21st century will be those at the intersection of law and the life sciences. How do we govern research, assess the safety and potential impact of new technologies, and regulate or even ban them? This seminar will explore those questions, examining a wide range of developments in health, environment, and the life sciences, such as genomics, gene therapy, genetically modified organisms, genetic patents, ecosystems change, environmental health, managed care, and challenges to public health. Weekly presentation will be made by faculty drawn from graduate programs affiliated with the Joint Degree Program in Law, Health & the Life Sciences. Faculty will lead discussion of articles on topics that may range from science policy and regulation of genetic engineering to natural resource conservation and international harmonization of pharmaceutical patents. The seminar is required each year for Joint Degree Program students and open to other students by consent of the instructor. Students will be evaluated on a pass/fail basis for satisfactory participation.**LAW 6877 Seminar: European Human Rights****Law only, 2 credit(s);****Instructor:** Helmius,Ingrid Cecilia**Description:** Student may contact the instructor or department for information.**LAW 6883 Seminar: Foreign Relations Law: Terrorism, Treaties, Federalism, and Human Rights Litigation****Law only, 2 credit(s);****Instructor:** STAFF**Description:** Student may contact the instructor or department for information.**LAW 6886 International Human Rights Law****A-F only, 3 credit(s);****Instructor:** STAFF**Description:** This class will provide an introduction to international human rights: law, policy, and process. The class will focus on different aspects of the study of international human rights to provide a representative sampling of the subject through: 1) various procedural postures, 2) diverse institutional settings, 3) a geographical spread of countries, 4) several substantive human rights and humanitarian law norms, and 5) changing approaches to learning. The class will be conducted through lectures, speakers, problems for discussion, small group discussions, role playing exercises, etc. The class will touch on

each of the major procedural channels for implementing human rights: on-site observation and fact-finding, state reporting, individual complaints, emergency procedures, state v. state complaints, litigation in domestic courts, legislative hearings, public discourse in international forums, the work of nongovernmental organizations, criminal prosecution, procedures for compensating victims, etc. The problems are set in most of the major international institutions, and include procedures of the UN, the Human Rights Committee, the Inter-American Commission on and Court of Human Rights, the European human rights system, international criminal tribunals, and nongovernmental organizations. The principal focus is on factual contexts in the United States or efforts that can be mounted from this country, but chapters also relate to violations and perspectives in other countries.

LAW 6894 Seminar: Sentencing Policy**A-F only, 3 credit(s);****Instructor:** STAFF

Description: This seminar includes a thorough examination of sentencing goals, structures (guidelines, mandatory penalties, indeterminate sentencing, etc.), alternatives, and consequences. A term paper is required.

LAW 6903 Seminar: Cities and Suburbs: Race, Taxes, and Development in American Metropolis**A-F only, 2 credit(s);****Instructor:** STAFF

Description: Challenges facing U.S. cities and suburbs in the context of the structure of local government law. Focus on 1) problems posed by interaction of housing discrimination and local zoning prerogative 2) local fiscal competition and evolving legal structure of local, state & regional finance, 3) growing local & state regulatory response to suburban development & 4) evolving legal structure of regional governance in America large metro areas.

LAW 6910 Seminar: Islamic Law**A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;****Instructor:** STAFF

Description: Islamic law is one of the oldest systems in the contemporary age. This course introduces the origins of Islamic law, its sources, and major schools of jurisprudence. The course will explore several substantive areas of Islamic law, criminal law, constitutional law, international law, commercial law, banking law and insurance, marriage, divorce and child custody cases. Paper required

LAW 6915 Seminar on Race in Litigation: The Anatomy of the Race Card**A-F only, 2 credit(s);****Instructor:** Warren, Carl Micah

Description: Student may contact the instructor or department for information.

LAW 6917 Seminar: Climate Change, the Clean Air Act, and Energy Law**A-F only, 2 credit(s);****Instructor:** STAFF

Description: Student may contact the instructor or department for information.

LAW 6918 Seminar: Rule of Law**A-F only, 2 credit(s);****Instructor:** STAFF

Description: This seminar will examine the concepts and core principles of the Rule of Law. Seminar sessions will be devoted to identifying the meaning of the terms "rule of law" and "independence of the judiciary." The importance of a strong and independent legal profession to the rule of law will be discussed. Seminar sessions will focus on such issues as the problem of corruption and the rule of law, the relationship between human rights law and the rule of law, and the challenges of war crimes and genocide. The seminar will explore the relationship between the rule of law and economic development and alleviation of poverty. The seminar will include a discussion of the

responsibility of lawyers to support and promote the rule of law within their own country and in other developing countries.

LAW 7000 CL: Civil Practice**A-F only, 1-7 credit(s), max credits 7;****Instructor:** STAFF

Description: The Civil Practice Clinic provides a unique opportunity for students to gain both practical experience in the lawyering process and the satisfaction of helping real clients. The Clinic introduces students to the practice of lawyering through a combination of instructional methods. Classroom sessions, explore topics such as interviewing, negotiation, and motion practice. Simulated exercises allow students to apply classroom learning in a life-like setting. Finally, each student handles approximately three live cases involving topics such as family, administrative, human rights, tort, consumer and contract law. These cases provide student attorneys with the opportunity to participate in almost all aspects of the lawyering process including actual court and administrative hearings. The Clinic course is a two semester program, although the classroom portion is completed during the first semester. Students may begin the Civil Practice Clinic course in either semester of the second year or in fall semester of the third year. Those students beginning in spring semester can complete their second semester during either the summer or fall semester of the following academic year. Students earn a total of four credits which may be allocated between the two semesters. A significant advantage to Clinic enrollment during the second year of law school is eligibility for selection as a third year student director. Student directors act as "junior partners" in the Clinic law firm in terms of handling the more difficult clinic cases and supervising beginning student attorneys.

LAW 7001 CL: Civil Practice Director**A-F only, 1-4 credit(s), max credits 4; prereq dept consent;****Instructor:** STAFF

Description: Student may contact the instructor or department for information.

LAW 7003 Seminar: Student Legal Writing Instructor**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**P-F only, 2 credit(s), max credits 8, 4 completions allowed;****Instructor:** STAFF

Description: Student may contact the instructor or department for information.

LAW 7010 Clinic: Innocence**A-F only, 2-3 credit(s), max credits 6;****Instructor:** STAFF

Description: Students in the Innocence Project Clinic will work in conjunction with the Innocence Project of Minnesota. In the clinic, students will investigate claims of actual innocence being made by inmates in Minnesota, and North and South Dakota. Students begin working a claim by obtaining primary source material: police reports, forensic reports, court pleadings, transcripts, appellate briefs, and opinions. At that point, many students will have the opportunity to talk to the trial and appellate attorneys who had previously worked on the case. After reviewing all of the source material, if the case still appears to be a viable one, the students will often visit the inmate in prison, giving them an opportunity to meet the inmate in person and question them about their claim. Students will also search for new evidence, and may visit crime scenes and interview witnesses. Students will be expected to prepare written summaries of what they do, and to present and discuss those experiences during class. Prerequisites: None

LAW 7012 CL: Environmental Sustainability**A-F only, 3-7 credit(s), max credits 7, 1 completion allowed;****Instructor:** Cox, Prentiss

Description: Student may contact the instructor or department

for information.

LAW 7015 Clinic: Worker Rights

A-F only, 2-4 credit(s), max credits 8;

Instructor: STAFF

Description: This two-semester course provides an introduction to practice in employment law with an emphasis on assisting low-wage workers such as temporary or day laborers and immigrant workers. Clinic participants work in collaboration with a non-profit Workers Center in the Twin Cities that is part of a nationwide movement advocating for and organizing low-wage and immigrant workers. These workers' cases typically involve wage and hour violations and national origin/race discrimination. Students work together with the Workers Center to consider a variety of methods of addressing the workplace problems, including work by non-lawyer advocates, organizing and collective action, and the legal services our clinic provides. Clinic students are involved in client intake in various community settings, particularly in the Latino, Somali and Hmong immigrant communities. In addition to direct client representation, field work may also include community legal education and working with non-legal advocates, labor unions, and labor organizers. The clinic attempts to have at least one complex case involving discrimination or retaliation on its docket during the year. The clinic has a three-hour class component in the first semester and a two-hour session in the second semester. Class work involves training in the core lawyering skills of interviewing, counseling, negotiation, discovery, motion practice and legal ethics in practice. Class work also includes substantive reading and discussions on the efficacy of traditional labor and employment law for meeting the workplace needs of marginalized workers and strategies for change. Classes also discuss new client interviews conducted both by our students and lay advocate volunteers and interns at the Workers Center intake sites. Students do case rounds and discuss questions that come up in their case work and organizing. Prerequisites: None

LAW 7020 CL: Special Education Law

A-F only, 2-3 credit(s), max credits 6;

Instructor: STAFF

Description: The Special Education Law Clinic offers advanced-standing law students the opportunity to work with and represent children with disabilities and their families. The law students, working under the supervision of an experienced school law attorney, assist with special education legal questions, reviewing special education documents, participating in conciliation conferences and mediations, working informally with schools to resolve disputes, and provide representation in state-level administrative complaints, hearings, and court actions. Law students may also participate in research projects and legislative and administrative proceedings. The Special Education Law Clinic is a two-semester program. It contains a classroom component mainly during the first semester. Throughout the program, law students will have a chance to meet and hear from professionals in the special education law community, including student advocates and attorneys, opposing counsel, school district staff, and state-level administrative decision makers.

LAW 7046 Labor Law Journal Staff

A-F only, 1-4 credit(s), max credits 4; prereq dept consent ;

Instructor: STAFF

Description: Student may contact the instructor or department for information.

LAW 7055 Maynard Pirsig Moot Court

A-F only, 1-2 credit(s), max credits 2; prereq dept consent ;

Instructor: STAFF

Description: Student may contact the instructor or department for information.

LAW 7092 CL: Bankruptcy Clinic

A-F only, 1-4 credit(s), max credits 4;

Instructor: STAFF

Description: The Consumer Bankruptcy Clinic offers students the opportunity to advise and represent individuals in serious

financial difficulty. This two-semester, four-credit course includes a classroom component, preparing the students to counsel clients about consumer bankruptcy and discussing important portions of the Bankruptcy Code and Rules. The majority of the course involves actually representing clients in financial difficulty. This includes advising clients of their options, communicating with their creditors, and filing bankruptcy cases (either Chapter 7 or 13). Students will also have the opportunity to represent clients in adversary proceedings, including discovery and trial as well as settlement negotiations with both creditors and the U.S. Trustee. Occasionally, students represent individual creditors as well.

LAW 7097 Civil Rights Moot Court Competition Team

A-F only, 1 credit(s), max credits 4, 4 completions allowed;

prereq dept consent;

Instructor: STAFF

Description: Student may contact the instructor or department for information.

LAW 7098 CL: Indian Child Welfare Act

A-F only, 1-7 credit(s), max credits 14;

Instructor: STAFF

Description: The Indian Child Welfare Act Clinic is a two-semester clinic offered annually since 1996. The clinic gives students practical experience in handling family law and juvenile law cases with a special emphasis on the federal Indian Child Welfare Act (ICWA) passed by Congress in 1978. Weekly classroom sessions are held in conjunction with the Child Advocacy Clinic and cover such topics as interviewing, negotiation, and motion practice. Students handle two to three cases over two semesters. Cases are referred from the Indian Child Welfare Law Center and students work closely with Shannon Smith, the Executive Director of ICWA, and other Center staff attorneys. These cases are selected to provide students with a variety of substantive and procedural experiences. The clinic course is a two-semester program beginning in the fall semester. Students earn a total of four credits allocated over two semesters

LAW 7500 CL: Misdemeanor Defense

A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;

Instructor: STAFF

Description: The educational goals of this clinic are knowledge, an understanding of, and the ability to practice in a criminal justice system. This course involves supervised student representation of persons charged with misdemeanor and gross misdemeanor offenses in Hennepin County District Court. Student attorneys represent clients at all stages of the criminal process, including arraignments, pretrial conferences, and trials. Student attorneys attend at least three arraignment sessions where they interview individuals who have charges pending against them on that day's arraignment calendar. The student attorney evaluates the charges, negotiates with the City Attorney, and appears with the client in court. Student attorneys in the clinic follow up on cases they open up at arraignments, and some of these cases may go all the way through a jury trial. A weekly two-hour lecture is devoted to misdemeanor laws and procedure, trial and advocacy skills, evidence problems as related to criminal law, and other areas of law and procedure related to the local criminal justice system. Student attorneys are required to participate in one ride-along with a police department in the metro area. Prerequisites: None

LAW 7550 CL: Misdemeanor Prosecution

A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;

Instructor: STAFF

Description: The educational goals of this clinic are knowledge, understanding of, and the ability to practice in a criminal justice system. This course involves the supervised prosecution of individuals charged with petty misdemeanors, misdemeanors, and gross misdemeanors in Ramsey and Hennepin County District Court. Prosecution students are supervised by prosecutors in several different jurisdictions in Hennepin and Ramsey District Court. Students handle cases at all stages of the criminal process, including arraignments, pretrial conferences

and court trials. The weekly two-hour class component of the clinic includes lectures, simulations and role playing. The lectures are on substantive and procedural aspects of criminal law, and on skills performance. The simulations and role playing involve the pre-trial and trial skills necessary to be an effective advocate in the criminal justice system. The students are also required to participate in one ride-along with a police department. Prerequisites: None

LAW 7675 CL: Child Advocacy**A-F only, 1-7 credit(s), max credits 7;****Instructor:** STAFF

Description: The Child Advocacy Clinic is a two-semester clinic offered annually since 1995. The clinic gives students practical experience in handling family law and juvenile law cases with an emphasis on children's rights. Weekly classroom sessions cover such topics as interviewing, negotiation, and motion practice. Students earn a total of four credits to be allocated between the semesters. Beginning in the fall semester, students handle three to four cases over the academic year. The cases are selected to provide students with a variety of experience in pretrial procedure, negotiation, discovery, and courtroom practice. The Child Advocacy Clinic also has a project with the Hennepin County Public Defender's Office to provide representation to juveniles in CHIPS (Children in Need of Protection and Services) matters in juvenile court. Additional cases involve family court custody and Guardian ad Litem representation for the Hennepin County Guardian ad Litem program. The clinic is designed with a classroom component, a simulation component and an actual case-handling component in family and juvenile court. The classroom and simulation portions of the course occur during the first semester. The classroom component consists of topics specifically relating to children's issues including child development and interviewing children. The simulation component revolves around mock cases designed to familiarize students with family and juvenile court procedure. The actual case component of the course stretches over both semesters.

LAW 7842 CL: Immigration and Human Rights**A-F only, 2-7 credit(s), max credits 14;****Instructor:** STAFF

Description: The Immigration Law Clinic handles immigration law matters, primarily applications for political asylum, withholding of removal, and Article 3 claims under the Convention Against Torture. Students will interview clients, research country conditions, write legal memoranda on asylum issues, and prepare and present claims to the Immigration and Naturalization Service, the Immigration Court, and the Board of Immigration Appeals under the student practice rule. Each student will handle up to two asylum cases. Students can choose from cases presented affirmatively to the Immigration and Naturalization Service and those presented defensively before the Immigration Court. Students appearing before the Court will handle case and client preparation and courtroom appearances. It is preferred that students have prior experience in or exposure to asylum law or other aspects of immigration law, but neither is required. Enrollment is generally limited to six students. Interested students should write a brief statement of interest and/or experience. Students will be notified if they have been selected for the Immigration Law Clinic shortly after finals end. Students who participate in the Immigration Law Clinic will add the clinic through the drop/add process in the Fall

LAW 7860 CL: Multi-Profession Business Law**A-F only, 2-4 credit(s), max credits 8;****Instructor:** STAFF

Description: The Minnesota Multi-Profession Business Law Clinic is a two-semester, 6-credit experience for 3Ls. Students enrolled in the clinic have the opportunity to gain broad transactional experience working with startup businesses and entrepreneurial clients. Students work with clients whose legal needs are transactional. Transactional practice includes the creation and interpretation of contracts and agreements. It also includes strategizing about legal issues of business formation, management, and governance. The delivery model is different from other clinics at the law school in several respects. Typically,

law school clinic clients need assistance to resolve a dispute with another person or a government entity. Dispute resolution is not a part of clinic practice in the Minnesota Multi-Profession Business Law Clinic. As participants in this multi-profession clinic, students work with attorneys, accountants, and business consultants. This aspect of clinic practice closely replicates the practice of business law. Experienced business law and corporate group attorneys from several law firms and accounting firms supervise teams of law students working with clients who apply for clinic services. The 42-hour transactional skills curriculum component of the clinic includes extensive practice in negotiation and drafting, as well as self-assessments of problem solving and communication styles. The curriculum also includes segments on client interviewing and negotiation ethics. Students are encouraged to learn about themselves as practitioners.

LAW 7950 CL: Tax Clinic**A-F only, 2-4 credit(s), max credits 4;****Instructor:** STAFF

Description: The Tax Clinic, first offered in 1981, is composed of two components. First, the clinic provides an opportunity for law students to represent low income taxpayers who have a controversy with the IRS. Representation can occur at audit, in the Appeals Office, in the collection process, before the U.S. Tax Court or, on occasion, before the U.S. District Court or 8th Circuit. In addition representation may also extend to controversies with the MN Department of Revenue. Clinic students do not prepare tax returns. The clinic receives client referrals from the IRS and Tax Court in addition to those that come from community organizations (such as free tax assistance sites). Students in the clinic are also asked to participate in community education and outreach, since approximately one-third of our clients speak English as a second language. A clinic seminar meets weekly for both semesters. The seminar provides training in lawyering skills, such as interviewing, counseling, negotiation, and professional responsibility. In addition, guest speakers at the seminar from the IRS, the Minnesota Department of Revenue, and practicing bar provide useful information about the practice of tax law. Students must have taken (or be concurrently enrolled in) Federal Tax Procedure. Tax I is encouraged as well. Each year three students are selected to serve as directors in the clinic during their third year. Each summer the Tax Clinic hires three students to work full-time in the clinic. If you are interested in serving as a director during your third year for academic credit or a summer job for pay, preference is given to students enrolled in the Tax Clinic (i.e., enroll in your second year to be eligible).

Learning and Academic Skills

104 Eddy Hall

LASK 1001 Mastering Skills for College Success**2 credit(s);****Instructor:** STAFF

Description: Study smarter ... not harder. Despite being bright and working hard, many students at the U. find they are unable to get the most out of their academic efforts; working hard doesn't always translate into the grades and performance they are looking for. LASK 1001 [Mastering Skills for College Success] was designed to address skills, strategies and approaches to help students become more efficient & effective in their academic efforts. The course focuses on 5 key areas for academic success: 1. Active Learning approaches; 2. Self-awareness & Learning Style; 3. Academic Skills (in areas such as note taking, exams, memory, reading, papers, etc.); 4. Balance Skills (in areas such as time & stress management); and, 5. Campus Resources (awareness & utilization). LASK 1001 balances lecture with hands-on application to help students get the most from their efforts.

Style: 40% Lecture, 30% Discussion. Applied activities
Grading: 30% reports/papers, 14% quizzes, 5% in-class presentation, 51% problem solving.

Exam Format: Multiple choice, True/False, Essay

LASK 1101 Academic Refresher**S-N only, 1 credit(s); prereq instr consent ;****Instructor:** STAFF

Description: Falling behind? Always playing 'catch-up'? Received an academic alert? Stressed about how to make the grades you need? Sometimes academic progress doesn't go as planned and students struggle. LASK 1101 [Academic Refresher] is a Mid-Semester (Term B) course designed to assist students over the final 7 weeks of the semester who are experiencing concerns about their academic progress. Through individualized planning and course assignments, students work with academic success consultants to develop & put into action a personal plan for success. Course focus is mainly on reaching academic goals for the current semester, however, students also learn skills and strategies to build ongoing success.

Style: 40% Lecture, 40% Discussion, 20% Small Group Activities. LASK is an individualized study course. You meet weekly with an academic success consultant to develop and carry out a personal plan for improving your grades.

Grading: 35% special projects, 15% written homework, 25% attendance, 25% class participation. Applied activities

LASK 1102 Academic Success**S-N only, 2 credit(s), max credits 4; prereq instr consent ; preference given to students on academic probation or returning from academic suspension;****Instructor:** STAFF

Description: This course was developed mainly for students on academic probation [it is also an excellent option for students returning to campus from an academic suspension or who may have concerns about being placed on probation]. LASK 1102 offers skilled assistance in identifying barriers in academic performance and developing plans for effective, ongoing scholarship. Information, skill development & performance enhancement are emphasized. Course objectives are achieved through weekly didactic instruction, assignments & small group participation.

Style: 45% Lecture, 5% Film/Video, 20% Discussion, 30% Small Group Activities.

Grading: 25% special projects, 40% attendance, 35% class participation.

Liberal Studies*20 Classroom Office Building***LS 5100 Liberal Studies Seminar: American Movies: A Two-Way Mirror of Culture****A-F only, 2 credit(s), max credits 24, 24 completions allowed; prereq dept consent ;****Instructor:** Pease,Nick

Description: American Movies: A Two-Way Mirror of Culture Movies are more than mere entertainments. They reflect the often unacknowledged depths of everyday life, and like the other fine arts, embody a people's deepest collective values. American movies, in fact, arguably constitute the foremost expression of our culture. Study film (both dramatic and documentary) in the context of six major aesthetic movements: Surrealism, Social Realism, Existentialism, Minimalism, Modernism, and Postmodernism. Besides comparing the films to literature, music, painting, and the other fine arts, we will relate them to wider concerns such as history, politics, economics, psychology, and philosophy.

LS 5100 Liberal Studies Seminar: Reclaiming Environmental Balance**A-F only, 3 credit(s), max credits 24, 24 completions allowed; prereq dept consent ;****Instructor:** Ultan,Roslye B

Description: <Reclaiming Environmental Balance: Artist's Respond to Our Fragile Economy Sheltering the ecology and protecting massive environmental damage is a charge for all concerned citizens from all walks of life. The artists can play a unique role in effecting environmental change through artistic

means that synthesize ideas and communicates connections between a multiplicity of disciplines that brings a unified vision to the public. Important new art movements of environmentally knowledgeable artists interpreting and offering solutions for restoring/re-creating nature's ecosystem has been developing. This seminar focuses attention on artistic efforts in the U.S., accounts for international connections, and studies early traditions as evidence of enduring models for stimulating and elevating understand of the ecology through the unifying vision of the artist as re-creator and healer in the struggle for ecological balance.

LS 5100 Liberal Studies Seminar**A-F only, 3 credit(s), max credits 24, 24 completions allowed; prereq dept consent ;****Instructor:** Tomsyck,John Peter

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. Presents key Innovation Studies models and demonstrates how these models support individualized learning and leadership processes while being broadly based dynamic and collaborative. The models contribute to innovative self and team leadership strategies, define and apply just-in-time knowledge, and support lifelong self-improvement skills. Internet Delivered, online term based course.

LS 5100 Liberal Studies Seminar: Weaving Together Life and Livelihood**A-F only, 3 credit(s), max credits 24, 24 completions allowed; prereq dept consent ;****Instructor:** Neraas,Julie

Description: Weaving Together Life & Livelihood - Work is a crucible out of which we find expression for our gifts, meet financial necessities, craft our destiny, and give voice to that which matters most. Like money, work and vocation are at the intersection where many forces meet: personal dreams, values, beliefs and fears, the needs of a community, and powerful, systemic forces that comprise family, culture, class, race and economics. If we want our occupation and vocation to overlap, and if we want money to be our servant, not our master, we must listen for wisdom again and again over the course of a lifetime, in regard to the choices we make, the beliefs we inherit, and pass on, about money and vocation. Listen with a particular ear for the teachings of religious tradition and spiritual perspectives on our subjects.

LS 5100 Liberal Studies Seminar: Issues in Arts Management: Creative Producer Role**A-F only, 3 credit(s), max credits 24, 24 completions allowed; prereq dept consent ;****Instructor:** Schock,Bonnie J

Description: Issues in Arts Management: The Creative Producer's Role - Bridging Leadership and Management in Contemporary Arts and Culture - From the theoretical to the practical, take an interdisciplinary approach to the art and practice of arts management and production in contemporary culture. Consider the unique challenges and opportunities presented to the arts producer in a changing social landscape of postmodern aesthetics, digital culture, interactive virtual communications and individualized consumer experience. Drawing upon resources from a variety of academic disciplines including business, leadership and ethics; cultural studies; arts practice and administration, examine three central topics: 1) the various boundaries of the Producer's role as artistic leader, manager and creative collaborator; 2) the character and operational stances of effective producers and productions; and 3) practical application and strategies for successful arts event production.

LS 5100 Liberal Studies Seminar: Northern Lights: Scandinavia in Film**A-F only, 2 credit(s), max credits 24, 24 completions allowed; prereq dept consent ;****Instructor:** Miller,Roger P

Description: Northern Lights: Scandinavia in Film

Iceland, Denmark, Norway, Sweden, and Finland have undergone dramatic transformations in the 20th century, taking widely divergent paths as they have urbanized, industrialized, and moved into post-industrial economies. Some of these countries have become far more multicultural than others, but all have had to deal with an erosion of their old, rigid, class structures, and the presence of foreigners on both a temporary and permanent basis. These changes have been reflected in Scandinavian cinema, from the work of acknowledged masters to the edgier and quirkiest films. Examine both classic and recent films, as well as read about the cultural, political, social and economic changes that have been occurring in the five countries that make up the region.

LS 5100 Liberal Studies Seminar: Trauma and Recovery
A-F only, 2 credit(s), max credits 24, 24 completions allowed; prereq dept consent ;
Instructor: Lloyd,Roseann

Description: Trauma and Recovery: Writing Our Contemporary Stories By combining the works of psychologists and writers we gain further understandings of the process of recovery from traumatic events; the seminar also focuses on the strategies available for writers who deal with trauma in their art. The work of Dr. Judith Herman, an M.D., theorist, writer, and practitioner who works with people who experience post-traumatic stress disorder will be at the center of our exploration. By examining literary writings, we'll discuss how experiences of trauma are converted to art: What is the purpose of this art? How does a writer invite the reader to listen to a story that is filled with terror? Which standards do we use to evaluate art about terror? How much distance does a writer need to write effectively about trauma? How can these writings lead us to express difficult areas of our own lives? We will discuss the books in terms of the strategies each writer used, and guest speakers, in the areas of literature and psychology, will speak to post-traumatic stress syndrome of veterans and survivors of abuse.

LS 5100 Liberal Studies Seminar
A-F only, 3 credit(s), max credits 24, 24 completions allowed; prereq dept consent ;
Instructor: Harkins,Arthur 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. Presents key Innovation Studies models and demonstrates how these models support individualized learning and leadership processes while being broadly based dynamic and collaborative. The models contribute to innovative self and team leadership strategies, define and apply just-in-time knowledge, and support lifelong self-improvement skills. Internet Delivered, online term based course.

LS 5100 Liberal Studies Seminar: Anti-Intellectualism and Constructing New Futures
A-F only, 2 credit(s), max credits 24, 24 completions allowed; prereq dept consent ;
Instructor: Harkins,Arthur M

Description: Presents key Innovation Studies models and demonstrates how these models support individualized learning and leadership processes while being broadly based dynamic and collaborative. The models contribute to innovative self and team leadership strategies, define and apply just-in-time knowledge, and support lifelong self-improvement skills. Internet Delivered, online term based course.

LS 5950 Special Topics: What Is Love?
A-F only, 1 credit(s), max credits 12, 3 completions allowed; prereq dept consent ;

Instructor: Dikel,William Robert
Description: What is Love? - Provides an in-depth interdisciplinary exploration into the elusive topic of love. View this topic from a wide range of perspectives - biological, psychological, philosophical, and theological, and from the viewpoints of authors, playwrights and poets. We will examine the topic of love from perspectives ranging over three millennia -

from the Greeks' distinctions of eros, philia and agape to today's scientific theories of neurobiological limbic system resonance. Gain a comprehensive, integrated perspective on this fascinating and universal topic.

LS 5950 Special Topics: Spies in a Post 9-11 World
A-F only, 1 credit(s), max credits 12, 3 completions allowed; prereq dept consent ;

Instructor: Andregg,Michael
Description: Spies in a Post 9-11 World - Espionage has been with us since the beginning of recorded history. But the actual business of professional intelligence is being transformed by revolutions in information technology, by "terrorism," and by other powerful trends of the modern world. We will combine a basic overview of how the American intelligence community currently works with futuristic exploration of how terrorism, economics, and climate change transform. Identify core concepts about "intelligence tasking," play a crisis simulation based on National Intelligence Training Exercises where each student takes on the role of a key policy maker, then practice managing a crisis scenario which highlights why intelligence is important and how needs differ in our complicated real world.

LS 8001 Introduction to Interdisciplinary Inquiry
A-F only, 3 credit(s); prereq MLS student, dept consent ;

Instructor: Shupe,David Arlin
Description: Introduction to Interdisciplinary Inquiry 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); prereq MLS; all MLS coursework must be completed by end of sem, dept consent ;

Instructor: Lock,Peter William
Description: Students synthesize/complete final project.

Linguistics

214 Nolte Center

LING 1701 Language and Society
4 credit(s); Meets CLE req of Cultural Diversity Theme;
Instructor: STAFF

Description: When you talk, you give out clues about who you are and where you come from. Sociolinguists have found that patterns of language use are affected by age, gender, socioeconomic status, ethnicity, and other aspects of people and situations. This course reflects on the relationship between language and such social variables. We will also examine multilingual situations such contact between speakers of different languages, and their implications for language loss and language change. Implications of sociolinguistic findings for educators will also be discussed.
Grading: 20% mid exam, 20% final exam, 20% reports/papers, 40% reflection paper.

LING 3001 Introduction to Linguistics
4 credit(s); Credit will not be granted if credit has been received for: LING 3001H; Meets CLE req of Social Science Core;
Instructor: STAFF

Description: This course is a general introduction to the various subfields of linguistics, the discipline devoted to the nature of human language, its basis in cognition, and its role in human affairs. The main emphasis in the course will be on the structural components of language: syntax (phrase and sentence structure), morphology (word structure), phonology (sound structure), and semantics/pragmatics (meaning). Students will learn about how human languages can differ from one another and how they are alike; they will also learn basic techniques for describing and analyzing linguistic data through working on

examples taken from various languages of the world. An understanding of structural components of language will also serve as the basis for an introduction to subfields of linguistics concerned with how languages change over time (historical linguistics, the nature and cause of regional and social variation and diversity within a given language (sociolinguistics), how languages are learned by children and by adults learning a second language (language acquisition), and the biological basis of language in the brain (neurolinguistics). The course will be conducted through lectures and discussions. Course requirements include regular assignments, a midterm and a final. Target audience is anyone with an interest in the nature of human language.

Style: 80% Lecture, 20% Discussion.

Grading: 30% mid exam, 35% final exam, 35% problem solving.

Exam Format: Short answer

languages known to class members. Students will investigate a language of their choice in some depth and present their findings in a final course project.

Style: 70% Lecture, 30% Discussion.

Grading: 20% final exam, 30% reports/papers, 20% quizzes, 10% class participation, 20% problem solving.

Exam Format: multiple choice, fill-in, matching, short answer

LING 3001H Honors: Introduction to Linguistics

4 credit(s); prereq honors candidate or instr consent; Credit will not be granted if credit has been received for: LING 3001; Meets CLE req of Social Science Core;

Instructor: STAFF

Description: This course is an introduction to the scientific study of human language. The course offers basic technical skills and foundational concepts required for language analysis, as well as an enhanced awareness of the goals, problems and promise of linguistic inquiry. Emphasis will be on the structure of human language. General questions include: what are the basic properties of human language? How do languages differ and how are they all alike? To what extent is human language part of the biological endowment of all humans and to what extent must it be learned? We will examine data from a variety of languages at the level of sound, sentence structure, meaning and use, exploring variation and similarity both across and within languages. Specific topics include: phonetics and phonology (how do we describe and analyze the sounds and sound patterns of human languages?), morphology and syntax (what are the structures of words and sentences?), semantics and pragmatics (how do we interpret language?) We will also discuss topics in historical-comparative linguistics (how do languages change over time, how are they related to one another and what methods are used in determining such relationships?), language acquisition (how are languages learned, by children as a first language and by children and adults as a second language?), and the relation between language and culture.

LING 3051H Honors: Thesis

3 credit(s); prereq Linguistics honors candidate, instr consent ;

Instructor: STAFF

Description: Independent research and writing of honors BA thesis, under the guidance of a faculty member selected according to student's topic. Details of work are determined in consultation with faculty advisor. Target audience: Linguistics majors in CLA Honors Program

Style: independent research, writing

Grading: 100% other evaluation. Research progress as determined by faculty advisor

LING 3101W Languages of the World

3 credit(s); prereq 3001 or 3001H or 3011 or 5001 or instr consent ; Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core; meets CLE req of Writing Intensive;

Instructor: STAFF

Description: In this course we will survey several methods used in the classification of languages, examining genetic and typological classifications in greater depth. We will explore what each reveals about the relationships and range of variation found in the world's languages. The second half of the semester will survey representative languages and language families throughout the world, examining sample languages in greater depth for where they fit into the classification systems examined earlier. In each region studied, specific linguistic phenomena which are particularly well-developed in that region will be examined and compared, as appropriate, to related structures in

LING 4002 Linguistic Analysis

3 credit(s); prereq 3001 or 3001H or 5001 or instr consent ;

Instructor: Kac, Michael B

Description: This is a postintroductory course in problem-solving techniques for morphology, syntax and phonology. The problems are drawn from a variety of languages and language families; the emphasis is on identifying and describing significant generalizations in the linguistic data rather than on theoretical issues.

Style: 70% Lecture. Small-group problem-solving work in class.

Grading: 33% final exam, 66% other evaluation. assignments

Exam Format: problems comparable to the ones given on assignments

LING 5001 Introduction to Linguistics

4 credit(s); prereq grad or instr consent; Credit will not be granted if credit has been received for: LING 3001;

Instructor: Laleko, Oksana V.

Description: Student may contact the instructor or department for information.

LING 5105 Field Methods in Linguistics I

4 credit(s); prereq [5201, 5302, grad major] or instr consent ;

Instructor: Bassene, Mamadou

Description: Student may contact the instructor or department for information.

LING 5206 Linguistic Pragmatics

3 credit(s); prereq 5201 or instr consent;

Instructor: Reese, Brian Jon

Description: Student may contact the instructor or department for information.

LING 5461 Conversation Analysis

3 credit(s); prereq 3001 or 3001H or 5001 or instr consent ;

Credit will not be granted if credit has been received for: COMM 5461;

Instructor: Sheldon, Amy

Description: Student may contact the instructor or department for information.

LING 5900 Topics in Linguistics: Style Shifting in Japanese

3 credit(s), max credits 12, 3 completions allowed;

Instructor: Szatrowski, Polly Ellen

Description: In this course we will investigate the use of style shifting in spoken and casual written Japanese discourse. Japanese differentiates linguistically between direct (da, -(r)u) vs. distal (desu, -masu) style, as well as plain (ikimasu) vs. polite style (humble polite: mairimasu, neutral polite: gozaimasu, and honorific polite: irassaimasu). It is an interesting language to study because contrary to Japanese textbooks and traditional grammars, the use of these forms is not set in a given context. Rather speakers have ways to avoid these forms (e.g., honorific avoidance strategies), and shift between styles to negotiate hierarchy and intimacy, bracket sections of talk (spoken paragraphs), create alignments, etc. Japanese is also cited as a language that has forms that index (point to) gender, for example, sentence final particles such as wa/zo, first-person pronouns such as atashi/boku 'I', etc. which were traditionally glossed as feminine/masculine. We will discuss changes in the use of these forms, in particular, how and why speakers shift in their use of forms traditionally associated with the opposite gender. Finally, we will examine how prosody (intonation and voice quality), nonlinguistic behavior and emoticons are used in style-shifting. The data for this course will come from spontaneous face-to-face and telephone conversations, manga (comics), interviews, faculty meetings, university lectures, text/E-mail messages, letters, etc. In Japanese. MAIN TEXT:

Jones, Kimberly & Tsuyoshi Ono, eds. 2008. *Style shifting in Japanese*. Amsterdam: John Benjamins. Coursepack consisting of research papers and readings from the following texts. Minami, Fujio. 1987. *Keigo* (Polite language). Tokyo: Iwanami Shinsho. Mori, Junko & Amy Snyder Ohta, eds. 2008. *Japanese applied linguistics- Discourse and social perspectives*. New York: Continuum. Okamoto, Shigeko, and Janet S. Shibamoto, eds. 2004. *Japanese language, gender, and ideology*. Oxford: Oxford University Press. PREREQUISITES: LING 3001 or 3011 or 5001 (may be taken concurrently), and JPN 1012 (Beginning Japanese), OR permission of the instructor
Style: 40% Lecture, 30% Discussion, 30% Student Presentation.
Grading: 40% reports/papers, 30% written homework, 30% class participation.

LING 5900 Topics in Linguistics: The Sociolinguistics of Storytelling

3 credit(s), max credits 12, 3 completions allowed;
Instructor: Szatrowski, Polly Ellen

Description: How do we tell stories to give shape and meaning to our lives, and negotiate our changing identities and selves in the world? In this course we will investigate the structure and diversity of linguistic forms used in storytelling, and how this expression of embodied experience shapes and is shaped by language. Using actual stories told in language's natural habitat in conversational interaction, we will investigate how people use linguistic/non-linguistic devices to establish tellership, allocate specific structural roles in the participation framework (storyteller, co-teller, recipient), create story structure, and evaluate events. We will consider how cognitive units of memory, and levels of consciousness are reflected in event structure, information structure (topicalization, focus, contrast, reference, ellipsis), and the establishment of time (past/historical present tense alternation). Finally, we will examine how participants negotiate the tellability of their stories using evaluative devices, quotation and constructed dialogue, repetition, etc., in order to make points, justify opinions, and create alignments that connect the teller's identity with larger social identities. The data will come from narratives/stories from natural conversation, university lectures, interviews, etc. in a variety of languages, including English, Japanese, German and Greek. READINGS: Chapters from the following texts, and other research papers. Bamberg, Michael, Anna De Fina, & Deborah Schiffrin, eds. 2007. *Selves and identities in narrative and discourse*. Amsterdam: John Benjamins. Chafe, Wallace, ed. 1990. *The pear stories: Cognitive, cultural, and linguistic aspects of narrative production*. Ablex Publishing Corporation. Georgakopoulou, Alexandra. 2007. *Small stories, interaction and identities*. Amsterdam: John Benjamins. Labov, William. 1973. *Language in the inner city*. Philadelphia: University of Pennsylvania Press. Norrick, Neal R. 2000. *Conversational narrative: Storytelling in everyday talk*. Amsterdam: John Benjamins. Quasthoff, Uta M. & Tabea Becker, eds. 2005. *Narrative interaction*. Amsterdam: John Benjamins. Thornborrow, Joanna & Jennifer Coates, eds. 2005. *The sociolinguistics of narrative*. Amsterdam: John Benjamins. Prerequisite: LING 3001 or 3011 or 5001, OR permission of the instructor. Questions, further information? Please contact Polly Szatrowski at szatr001@umn.edu.

Style: 40% Lecture, 30% Discussion, 30% Student Presentation.
Grading: 40% reports/papers, 30% written homework, 30% in-class presentation.

LING 5931 Morphology and Syntax of Contemporary English
3 credit(s); prereq 3001 or 3001H or 5001 or instr consent;
Instructor: STAFF

Description: : This course will offer a step-by-step introduction to the structure of English words and sentences and how one argues for particular analyses. We will make use of grammatical theory, but the focus will be on analyzing and understanding the structural properties of contemporary English. Class sessions will involve both presentations (lectures) with class discussion and group work on data analysis. Electronic text-analysis tools will be used to examine large corpora (texts) of various sorts. Course requirements will include regular in-class and homework exercises, a mid-term and a final exam, and a research paper (10 to 15 pages in length) due on the last day of class. For the

paper, each student will conduct research on a selected aspect of contemporary English grammar. These projects will generally involve data collection and analysis and will be reported on orally as well as in the written paper.

LING 5993 Directed Study

1-3 credit(s), max credits 10, 10 completions allowed; prereq instr consent , dept consent , college consent ;

Instructor: Gundel, Jeanette K

Description: Student may contact the instructor or department for information.

LING 5993 Directed Study

1-3 credit(s), max credits 10, 10 completions allowed; prereq instr consent , dept consent , college consent ;

Instructor: Downing, Bruce T

Description: Student may contact the instructor or department for information.

LING 5993 Directed Study

1-3 credit(s), max credits 10, 10 completions allowed; prereq instr consent , dept consent , college consent ;

Instructor: Stenson, Nancy J

Description: Student may contact the instructor or department for information.

LING 5993 Directed Study

1-3 credit(s), max credits 10, 10 completions allowed; prereq instr consent , dept consent , college consent ;

Instructor: Soh, Hooi Ling

Description: Student may contact the instructor or department for information.

LING 8105 Field Methods in Linguistics I

4 credit(s), max credits 8; prereq [5001, 5201, 5302, grad linguistics major] or instr consent ;

Instructor: Stenson, Nancy J

Description: Student may contact the instructor or department for information.

LING 8920 Topics in Language and Cognition

3 credit(s), max credits 6; prereq 5001 or instr consent;

Instructor: Gundel, Jeanette K

Description: Student may contact the instructor or department for information.

LING 8991 Independent Study

1-4 credit(s), max credits 15, 15 completions allowed; prereq instr consent ;

Instructor: Gundel, Jeanette K

Description: Student may contact the instructor or department for information.

LING 8991 Independent Study

1-4 credit(s), max credits 15, 15 completions allowed; prereq instr consent ;

Instructor: Stenson, Nancy J

Description: Student may contact the instructor or department for information.

LING 8991 Independent Study

1-4 credit(s), max credits 15, 15 completions allowed; prereq instr consent ;

Instructor: Soh, Hooi Ling

Description: Student may contact the instructor or department for information.

Management
3-353 CarlSMgmt

MGMT 1001 Contemporary Management

A-F only, 3 credit(s); prereq Carlson School fr or soph;

Instructor: Miller, Philip Jordan

Description: Student may contact the instructor or department for information.

MGMT 1001 Contemporary Management

A-F only, 3 credit(s); prereq Carlson School fr or soph;

Instructor: Shah, Pri Pradhan

Description: Student may contact the instructor or department for information.

MGMT 1001 Contemporary Management

A-F only, 3 credit(s); prereq Carlson School fr or soph;

Instructor: Zellmer-Bruhn, Mary Elizabeth

Description: Student may contact the instructor or department for information.

MGMT 1001 Contemporary Management

A-F only, 3 credit(s); prereq Carlson School fr or soph;

Instructor: Li, Min

Description: Student may contact the instructor or department for information.

MGMT 1001H Honors: Contemporary Management

A-F only, 3 credit(s); prereq [Fr or soph] honors;

Instructor: Zellmer-Bruhn, Mary Elizabeth

Description: Student may contact the instructor or department for information.

MGMT 1350 Introduction to Business and Business Careers

A-F only, 3 credit(s);

Instructor: Haarklau, Evon A

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: Haarklau, Evon A

Description: Student may contact the instructor or department for information.

MGMT 3001 Fundamentals of Management

A-F only, 3 credit(s);

Instructor: Schander, Raoul E

Description: Student may contact the instructor or department for information.

MGMT 3001 Fundamentals of Management

A-F only, 3 credit(s);

Instructor: Kaiser, David

Description: Student may contact the instructor or department for information.

MGMT 3004 Business Strategy

A-F only, 3 credit(s); prereq CSOM soph or jr; 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 3010 Introduction to Entrepreneurship

A-F only, 4 credit(s);

Instructor: Spruth, Steve

Description: This course provides an overview to students regarding the role of entrepreneurship in our economy and to the process of new venture creation. The course is intended to broadly introduce the set of skills known to have an impact on entrepreneurial success. The students are introduced to various forms of entrepreneurial pursuits including independent start-ups, venturing within established organizations, franchising, and acquiring existing businesses. The course is delivered through formal lecture, guest speakers, group work and a variety of experiential exercises. Key Learning Objectives: 1) Provide exposure to the role of entrepreneurs in society and potential career paths 2) Develop individual self-assessment of entrepreneurial interests and capabilities 3) Examine the new venture creation process and key challenges of launching and growing new businesses 4) Understand what skills are needed to become an entrepreneur 5) Begin to develop the foundational skills required to successfully embark on an entrepreneurial career, such as problem-solving under uncertainty, decision-making with incomplete information, communication, innovation processes, sales, negotiations, recruitment and staffing, and leadership.

Style: 25% Lecture, 20% Discussion, 20% Small Group

Activities: 20% Student Presentation, 15% Guest Speakers.

Grading: 25% reports/papers, 60% special projects, 15% class participation.

MGMT 3033V Honors: Business Communication

A-F only, 3 credit(s); prereq [Jr or sr] honors student credit will not be granted if credit already received for: BA 3033W or 3033V; Meets CLE req of Writing Intensive;

Instructor: Littlefield, Holly A

Description: This section of BA 3033 Business Communication will focus on important business communications concepts like audience analysis, persuasion, correspondence, discussion, presentations, and visual aids. The course will begin by covering these basics. Then you will apply these basics while working in small teams to provide a service or complete a project for a local non-profit, small community business, or service organization. You will have some choice as to what project you would like to select. You will meet a few times with representatives from that organization, but this is not traditional volunteering. Instead you will be completing a project for the organization the way that an outside consulting team might. Some examples of projects might include creating a marketing plan for the organization, designing a website, surveying clientele to provide customer service recommendations, creating a database, writing brochures, fliers, or other literature, developing a plan to recruit volunteers or new employees. Benefits of taking this section include working with non-profits and small businesses, doing real-life projects, creating documents and projects that will actually be used and can be shown to perspective employers, taking part in community activities, working with diverse groups of people, and becoming aware of community issues and concerns.

Style: 20% Lecture, 80% Discussion.

Grading: 10% mid exam, 15% reports/papers, 50% special projects, 15% in-class presentation, 10% class participation.

Exam Format: essay

MGMT 3033W Business Communication

A-F only, 3 credit(s); prereq Fr composition, CSOM upper-div, at least 60 cr credit will not be granted if credit already received for: BA 3033W or 3033V; Meets CLE req of Writing Intensive;
Instructor: STAFF

Description: Student may contact the instructor or department for information.

Grading: 10% mid exam, 40% reports/papers, 40% in-class presentation, 10% class participation.

MGMT 3033W Business Communication

A-F only, 3 credit(s); prereq Fr composition, CSOM upper-div, at least 60 cr credit will not be granted if credit already received for: BA 3033W or 3033V; Meets CLE req of Writing Intensive;

Instructor: Littlefield,Holly A

Description: Mgmt 3033--Business Communications fosters students' communication and analytical skills. It helps students become credible professionals who can effectively contribute to organizations and communities and successfully employ a variety of communications strategies and skills. The course combines writing and speaking into a single, semester-long course required of all Carlson School undergraduates. It gives students opportunities to develop critical thinking and applied communications skills using a variety of real world speaking and writing assignments. Students give multiple presentations both individually and in teams; they take part in a case study competition; and they also create a variety of business documents including emails, memos, reports, letters, and PowerPoint decks. This course should help students to: Communicate credibly and deliver written and spoken messages that are adapted to the specific needs of the audience and situation; Understand differences in message design; Employ the persuasive strategies most effective in writing and speaking situations; Understand the persuasive effect of presenting quantitative information and appealing to audience logic or emotions; Demonstrate effective nonverbal communication skills; Critically judge information and information sources; Build sound arguments, using data and logic, when delivering a persuasive message; Use technology to increase the effectiveness of communication.

Style: 20% Lecture, 80% Discussion.

Grading: 10% mid exam, 40% reports/papers, 40% in-class presentation, 10% laboratory evaluation.

MGMT 3040 Understanding the International Environment of Firms: International Business

A-F only, 3 credit(s); prereq 3001, CSOM upper div, at least 60 cr; Meets CLE req of International Perspect Theme;
Instructor: Goldman,Joseph Richard

Description: Student may contact the instructor or department for information.

MGMT 3040 Understanding the International Environment of Firms: International Business

A-F only, 3 credit(s); prereq 3001, CSOM upper div, at least 60 cr; Meets CLE req of International Perspect Theme;
Instructor: Benraouane,Sid A.

Description: Student may contact the instructor or department for information.

MGMT 3040 Understanding the International Environment of Firms: International Business

A-F only, 3 credit(s); prereq 3001, CSOM upper div, at least 60 cr; Meets CLE req of International Perspect Theme;
Instructor: Bartlett,David Louis

Description: Student may contact the instructor or department for information.

MGMT 3040H Honors: Understanding the International Environment of Firms, International Business

A-F only, 3 credit(s); prereq 3001, honors student, at least 60 cr;

Instructor: Bartlett,David Louis

Description: Student may contact the instructor or department for information.

MGMT 3603 Topics: Environmental Issues

A-F only, 3 credit(s); prereq [MATH 1142 or [MATH 1271, MATH 1272]], [APEC 1101 or ECON 1101 or 3261W]; Credit will not be granted if credit has been received for: ESPM 3603;

Instructor: Suh,Sangwon

Description: Student may contact the instructor or department for information.

MGMT 3033W Business Communication

A-F only, 3 credit(s); prereq Fr composition, CSOM upper-div, at least 60 cr credit will not be granted if credit already received for: BA 3033W or 3033V; Meets CLE req of Writing Intensive;

Instructor: 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.

MGMT 3604 Topics: Environmental Issues

A-F only, 3 credit(s);

Instructor: Smith,Tim

Description: Student may contact the instructor or department for information.

MGMT 4002 Managerial Psychology

A-F only, 4 credit(s);

Instructor: Albert,Stuart

Description: Student may contact the instructor or department for information.

MGMT 4004W Business Policy: Strategy Formulation and Implementation

A-F only, 3 credit(s); prereq 3040, 90 cr, completion of business core courses; Credit will not be granted if credit has been received for: MGMT 3004; Meets CLE req of Writing Intensive;

Instructor: Cohen,Anne Noelle

Description: Student may contact the instructor or department for information.

MGMT 4008 Entrepreneurial Management

A-F only, 4 credit(s); prereq 3010, CSOM upper div; completion of core recommended;

Instructor: Keller,Linda Jean Hall

Description: This course focuses on developing the students ability to manage a business enterprise. It explores how business models change from start-up through maturity, as well as key challenges at each stage of growth. It also explores organizational leadership methodologies as they pertain to

stakeholder management, strategic planning, management development, control systems, financial analysis and financing. This course concludes with the employment of course learning through the examination of a live case. Key Learning Objectives: 1) Understand business growth and the typical problems encountered 2) Understand the challenges of a growing business and how to manage growth and change 3) Learn how to assess the interests of key stakeholders and how to manage these relationships 4) Sharpen entrepreneurship skills and competencies of problem-solving, decision-making, communication, innovation, sales, negotiations and leadership

MGMT 4050 Management of Innovation and Change
A-F only, 2 credit(s); prereq [3001 or 3010], CSOM upper div credit will not be granted if credit received for: 5050;
Instructor: Bechara, John Phillippe
Description: Student may contact the instructor or department for information.

MGMT 4171 Entrepreneurship in Action I
A-F only, 4 credit(s); prereq 3010, [4008 or Concurrent registration is required (or allowed) in 4008], completed coursework in business core, CSOM upper division, approved application;
Instructor: Spruth, Steve
Description: Student may contact the instructor or department for information.

MGMT 4177 The Business Plan
A-F only, 2 credit(s); prereq 3010, CSOM upper div credit will not be granted if credit received for: 5177;
Instructor: Villanueva, Jaume
Description: Student may contact the instructor or department for information.

MGMT 5019 Business, Natural Environment, and Global Economy
A-F only, 2 credit(s); prereq MBA student;
Instructor: Marcus, Alfred A
Description: Student may contact the instructor or department for information.

MGMT 6004 Negotiation Strategies
A-F only, 2 credit(s); prereq MBA student;
Instructor: Abrams, Lori J
Description: Student may contact the instructor or department for information.

MGMT 6031 Industry Analysis and Competitive Strategy
A-F only, 4 credit(s); prereq MBA 6300, MBA student;
Instructor: Fox, Isaac J
Description: Student may contact the instructor or department for information.

MGMT 6032 Strategic Alliances
A-F only, 2 credit(s); prereq MBA student;
Instructor: Madzar, Svjatlana
Description: Student may contact the instructor or department for information.

MGMT 6033 Managing the Strategy Process
A-F only, 2 credit(s); prereq MBA student;
Instructor: Goldman, Joseph Richard
Description: Student may contact the instructor or department for information.

MGMT 6040 International Strategy and Organization
A-F only, 2 credit(s); prereq MBA student;
Instructor: Madzar, Svjatlana
Description: Student may contact the instructor or department for information.

MGMT 6050 Management of Innovation and Change
A-F only, 2 credit(s); prereq MBA student;
Instructor: Spruth, Steve

Description: Student may contact the instructor or department for information.

MGMT 6084 Management of Groups
A-F only, 2 credit(s); prereq MBA student;
Instructor: Madzar, Svjatlana
Description: Student may contact the instructor or department for information.

MGMT 6110 Managing People and Organizations
A-F only, 2 credit(s); prereq MBA student;
Instructor: Leroy, Sophie
Description: Student may contact the instructor or department for information.

MGMT 6305 The International Environment of Business
A-F only, 2 credit(s); prereq MBA student;
Instructor: Bartlett, David Louis
Description: Student may contact the instructor or department for information.

MGMT 8302 Seminar in Organizations Theory
4 credit(s); prereq Business admin PhD student or instr consent;
Instructor: Van de Ven, Andrew Henry
Description: Student may contact the instructor or department for information.

MGMT 8401 Seminar in Strategy Content
4 credit(s); prereq Business admin PhD student or instr consent;
Instructor: Shaver, Myles
Description: Student may contact the instructor or department for information.

Management of Technology 510 WBOB

MOT 4001 Leadership, Professionalism and Business Basics for Engineers
A-F only, 2 credit(s);
Instructor: Froggatt, Kirk
Description: MOT 4001 is designed to provide scientists and engineers with a working knowledge of the broader business context within which technical ideas are translated into solutions that address customer needs and deliver commercial value to a firm. The course will broaden students' business knowledge and personal leadership abilities, enabling technical professionals to increase their business impact and career success. This two-credit course will build practical knowledge and skill in personal leadership and professionalism, effective communication, business fundamentals, and the process of innovation (i.e., transforming technical ideas into value creating solutions). The course content and the experiential learning approach are designed to reflect the real world requirements and challenges technical professionals need to master in order to thrive in collaborative, project team environments. The course instructor has spent 24 years working for Silicon Valley-based technology companies including HP, Silicon Graphics, Yahoo!, and Agilent Technologies. He brings relevant experience, academic rigor, and a passion for applied learning and development to the classroom.
Style: 40% Lecture, 30% Discussion, 30% Small Group Activities.
Grading: 20% mid exam, 30% final exam, 35% reports/papers, 15% in-class presentation.

MOT 8112 Management Accounting
A-F only, 2 credit(s); prereq Grad MOT major;
Instructor: Caliendo, Charles Michael
Description: Student may contact the instructor or department for information.

MOT 8114 Strategic Technology Analysis**A-F only, 2 credit(s); prereq Grad MOT major;****Instructor:** Carlson,Lockwood**Description:** Student may contact the instructor or department for information.**MOT 8121 Managing Organizations in a Technological Environment****A-F only, 2 credit(s); prereq Grad MOT major;****Instructor:** Soni,Tarun**Description:** Student may contact the instructor or department for information.**MOT 8133 Communication in a Technical Environment****A-F only, 2 credit(s); prereq Grad MOT major;****Instructor:** Wilbers,Stephen**Description:** Student may contact the instructor or department for information.**MOT 8212 Developing New Technology Products****A-F only, 2 credit(s); prereq Grad MOT major;****Instructor:** Carlson,Lockwood**Description:** Student may contact the instructor or department for information.**MOT 8224 Pivotal Technologies****A-F only, 2 credit(s); prereq MOT grad major;****Instructor:** Amin,Massoud**Description:** Student may contact the instructor or department for information.**MOT 8233 Strategic Management of Technology****A-F only, 2 credit(s); prereq Grad MOT major;****Instructor:** Marcus,Alfred A**Description:** Student may contact the instructor or department for information.**MOT 8234 Capstone Project****A-F only, 0.5-2 credit(s), max credits 2; prereq Completion of two semesters, grad MOT major;****Instructor:** Amin,Massoud**Description:** Student may contact the instructor or department for information.**MOT 8900 Conflict Management****0.5 credit(s); prereq Grad MOT major;****Instructor:** Fiutak,Thomas Richard**Description:** Student may contact the instructor or department for information.**MOT 8910 Corporate Responsibility****A-F only, 1 credit(s); prereq Grad MOT major;****Instructor:** Marcus,Alfred A**Description:** Student may contact the instructor or department for information.**MOT 8920 Science and Technology Policy****A-F only, 1.5 credit(s); prereq MOT grad student;****Instructor:** Polla,Dennis L**Description:** Student may contact the instructor or department for information.**Managerial Communications****4-300 Carlson School of Management****MCOM 5400 Managerial Communications for the HR Professional****A-F only, 2 credit(s); prereq HRIR student;****Instructor:** Bork,Joseph T.**Description:** Student may contact the instructor or department for information.**MCOM 5500 Strategic Managerial Communication (Comprehensive Course)****A-F only, 4 credit(s), max credits 8; prereq MBA student;****Instructor:** Syverson MA,JoAnn**Description:** Student may contact the instructor or department for information.**MCOM 5510 Persuasive Writing in Business****A-F only, 2 credit(s); prereq MBA student;****Instructor:** Smith,Sandra S**Description:** Student may contact the instructor or department for information.**MCOM 5530 Strategies and Skills for Managerial Presentations****A-F only, 2 credit(s); prereq MBA student;****Instructor:** Smith,Sandra S**Description:** Student may contact the instructor or department for information.**Manufacturing Technology**
20 Classroom Office Building**MT 3001 Manufacturing in a Global Economy****A-F only, 3 credit(s);****Instructor:** King,William Tyler**Description:** In today's changing global economy, high-performing manufacturing operations must function at the intersection of three important dimensions: Leadership, Product Quality, and Innovation. This course breaks down each dimension in detail and explains how all three are interrelated and necessary to achieve sustainable profitability.**MT 4001 Manufacturing Cost Accounting, Analysis, and Control****A-F only, 3 credit(s); prereq Financial accounting, 45 cr;****Instructor:** Vickman,Thomas M**Description:** For details on this course, go to <http://idlwebdb.cce.umn.edu/courses.asp> and search for online format.**MT 4035 Global Supply Chain Technology****A-F only, 3 credit(s); prereq ABUS 4102 or professional experience;****Instructor:** Martens,Scott L**Description:** Student may contact the instructor or department for information.**MT 4201 Quality Engineering and Process Improvement****A-F only, 3 credit(s); prereq Statistics, 45 cr;****Instructor:** Rand,Dan**Description:** Statistical quality control in manufacturing utilizing control charts, cost of quality, a review of hypothesis testing, process capability, gage capability, and other methods for quality improvement. Development and evaluation of process control chart systems form the primary focus. This course also includes an overview of design of experiments and Six Sigma concepts for business improvement. Computer analysis methods are utilized; Microsoft Excel is featured.**Marketing****3-150 CarlSMgmt****MKTG 3001 Principles of Marketing****A-F only, 3 credit(s); prereq ECON 1101;****Instructor:** Nelson,Elaine W**Description:** Student may contact the instructor or department for information.**MKTG 3001 Principles of Marketing**

A-F only, 3 credit(s); prereq ECON 1101;

Instructor: Mackenzie, Lydia May

Description: Student may contact the instructor or department for information.

MKTG 3001 Principles of Marketing

A-F only, 3 credit(s); prereq ECON 1101;

Instructor: Mueller, Wayne G

Description: The student will learn the basic marketing concepts that drive corporate marketing strategy and will apply them through use classroom discussion, team presentations, guest speakers and video discussion techniques. Key Twin Cities Marketing Executives will make guest appearances throughout the semester to share their career experiences, techniques and ideas for marketing success in a challenging global corporate world. Students will learn, present and apply marketing principles and their ideas in front of the class. Being able to present and apply ideas are a key ingredient to your future success in business. This is a "no penalty zone" for the student to learn and try their individually learned marketing techniques to establish their own style of applying marketing principles. Many of the reading materials and weekly chapter readings will be supplemented with lecture/discussion sessions from the instructor's experiences in the current business world. The goal is to make the text relevant to current business conditions. Reading the weekly chapters and completing quizzes will be critical for the on-going progress of the student and meeting of course objectives. Therefore, balancing depth and breadth of the chapter readings will be important an important objective to ensuring the course provides real world relevance.

Style: 30% Lecture, 70% Discussion.

Grading: 30% mid exam, 15% final exam, 30% quizzes, 15% in-class presentation, 10% class participation.

Exam Format: Multiple Choice

MKTG 3001 Principles of Marketing

A-F only, 3 credit(s); prereq ECON 1101;

Instructor: Banerjee, Ranjan Rangelal

Description: Student may contact the instructor or department for information.

MKTG 3001 Principles of Marketing

A-F only, 3 credit(s); prereq ECON 1101;

Instructor: Lipe, Jay

Description: Student may contact the instructor or department for information.

MKTG 3010 Marketing Research

A-F only, 4 credit(s); prereq [3001 or Concurrent registration is required (or allowed) in 3001], [OMS 2550 or equiv];

Instructor: Cui, Tony Haitao

Description: Student may contact the instructor or department for information.

MKTG 3010 Marketing Research

A-F only, 4 credit(s); prereq [3001 or Concurrent registration is required (or allowed) in 3001], [OMS 2550 or equiv];

Instructor: Mukherji, Prokriti

Description: Student may contact the instructor or department for information.

MKTG 3010 Marketing Research

A-F only, 4 credit(s); prereq [3001 or Concurrent registration is required (or allowed) in 3001], [OMS 2550 or equiv];

Instructor: Werner, Seth E

Description: Student may contact the instructor or department for information.

MKTG 3040 Buyer Behavior

A-F only, 4 credit(s); prereq 3001, [3010 or Concurrent registration is required (or allowed) in 3010] credit will not be granted if credit already received for: Mktg 4040;

Instructor: Maki, Diane

Description: Student may contact the instructor or department for information.

MKTG 3040 Buyer Behavior

A-F only, 4 credit(s); prereq 3001, [3010 or Concurrent registration is required (or allowed) in 3010] credit will not be granted if credit already received for: Mktg 4040;

Instructor: Loken, Barbara

Description: Student may contact the instructor or department for information.

MKTG 4030 Sales Management

A-F only, 4 credit(s); prereq 3001, 3010, 3040;

Instructor: Mueller, Wayne G

Description: Student may contact the instructor or department for information.

MKTG 4050 Integrated Marketing Communications

A-F only, 4 credit(s); prereq 3001, 3010, 3040;

Instructor: Ahluwalia, Rohini

Description: Student may contact the instructor or department for information.

MKTG 4060 Marketing Channels

A-F only, 4 credit(s); prereq 3001, 3010, 3040;

Instructor: John, George

Description: Student may contact the instructor or department for information.

MKTG 4080 Marketing Strategy

A-F only, 4 credit(s); prereq 3001, 3010, 3040, 12 cr in marketing, sr;

Instructor: Redden, Joseph P

Description: This course focuses on how a firm manages its resources and capabilities to maximize customer value and firm profit. Students will learn about several key concepts that form the basis for marketing strategy, as well as the frameworks and tools useful in developing a successful marketing strategy. The topics discussed will include the benefits of being market oriented; the principles of segmentation, targeting, and positioning; product life cycle dynamics; the structural analysis of industries and markets; and the basis of a sustainable competitive advantage. The course will be taught largely using the case method to allow students to step into the shoes of decision-makers in real organizations. The cases are designed to improve the student's ability to analyze a firm's situation, summarize the critical issues, and justify a particular course of action. Additionally, several short homework assignments have been designed to illustrate specific marketing concepts to the students. The target audience for this course is upper-class undergraduate marketing majors.

Style: 40% Lecture, 60% Discussion. 6 short homework assignments (should require less than an hour each)

Grading: 25% mid exam, 30% reports/papers, 5% quizzes, 25% class participation, 15% problem solving.

Exam Format: short answer

MKTG 4082 Brand Management

A-F only, 4 credit(s); prereq 3001, 3010, 3040;

Instructor: Torelli, Carlos

Description: Student may contact the instructor or department for information.

MKTG 6051 Marketing Research

A-F only, 4 credit(s); prereq MBA 6210, MBA student;

Instructor: Mukherji, Prokriti

Description: Student may contact the instructor or department for information.

MKTG 6055 Buyer Behavior

A-F only, 4 credit(s); prereq MBA 6210, MBA student;

Instructor: Vohs, Kathleen Diane

Description: Student may contact the instructor or department for information.

MKTG 6060 Distribution and Supply Chain Systems

A-F only, 4 credit(s); prereq MBA 6210, MBA student;

Instructor: Belich, Thomas James

Description: Student may contact the instructor or department for information.

for information.

MKTG 6072 International Marketing

A-F only, 2 credit(s); prereq MBA 6210, MBA student;
Instructor: Murray, John A
Description: Student may contact the instructor or department for information.

MKTG 6075 Pricing Strategy

A-F only, 4 credit(s); prereq MBA 6210, MBA student;
Instructor: Bergen, Mark Edward
Description: Student may contact the instructor or department for information.

MKTG 6078 Integrated Marketing Communications

A-F only, 4 credit(s); prereq MBA 6210, MBA student;
Instructor: Upton, Kevin John
Description: Student may contact the instructor or department for information.

MKTG 6088 Strategic Marketing

A-F only, 2 credit(s); prereq MBA 6210, MBA student;
Instructor: Hopkins, David K
Description: Student may contact the instructor or department for information.

MKTG 6088 Strategic Marketing

A-F only, 2 credit(s); prereq MBA 6210, MBA student;
Instructor: Mueller, Wayne G
Description: Student may contact the instructor or department for information.

MKTG 8809 Consumer Behavior Research Methods

A-F only, 2 credit(s); prereq Doctoral student or [masters programs student, instr consent];
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); prereq Doctoral student or [master's program student, instr consent];
Instructor: Loken, Barbara
Description: Student may contact the instructor or department for information.

Master of Business Administration *2-210 CarlSMgmt*

MBA 6030 Financial Accounting

A-F only, 3 credit(s); prereq Evening MBA Student;
Instructor: Webber, Nancy Bernadette
Description: This course is an introduction to the external accounting systems used by U.S. organizations to measure and report their economic performance and financial position to external users such as stockholders, debt holders and potential investors. We will develop the basic accounting model and examine it for its strengths and weaknesses. By the end of the term, you should be able to read and interpret financial statements.
Style: 100% Lecture. The pace of the class is rigorous. Students will excel if they stay current and supplement in-class lectures by doing outside reading and assigned problems before lecture on regular basis.
Grading: 50% final exam, 50% quizzes.
Exam Format: Free hand computation.

MBA 6030 Financial Accounting

A-F only, 3 credit(s); prereq Evening MBA Student;
Instructor: Gigler, Frank
Description: Student may contact the instructor or department for information.

MBA 6030 Financial Accounting

A-F only, 3 credit(s); prereq Evening MBA Student;
Instructor: Duke, Gordon Leon
Description: This course introduces the topic of financial accounting for U.S. organizations. The purpose of financial accounting is to provide information to owners of the firm and other interested parties to serve as the basis for making decisions about that firm. The student who successfully completes this class will be able to read, analyze and understand U.S. financial statements.
Style: 80% Lecture, 20% Discussion.
Grading: see website
<https://netfiles.umn.edu/users/gduke2/www>
Exam Format: see website
<https://netfiles.umn.edu/users/gduke2/www>

MBA 6035 Managerial Accounting

A-F only, 3 credit(s); prereq 6030, 6230, MBA student;
Instructor: Kanodia, Chandra S
Description: Student may contact the instructor or department for information.

MBA 6035 Managerial Accounting

A-F only, 3 credit(s); prereq 6030, 6230, MBA student;
Instructor: Joyce, Edward J
Description: Student may contact the instructor or department for information.

MBA 6120 Data Analysis and Statistics for Managers

A-F only, 3 credit(s); prereq MBA student;
Instructor: Donahue, Gretchen Ann
Description: Student may contact the instructor or department for information.

MBA 6120 Data Analysis and Statistics for Managers

A-F only, 3 credit(s); prereq MBA student;
Instructor: Chervany, Norman Lee
Description: Student may contact the instructor or department for information.

MBA 6120 Data Analysis and Statistics for Managers

A-F only, 3 credit(s); prereq MBA student;
Instructor: Huchendorf, Steven Craig
Description: Student may contact the instructor or department for information.

MBA 6150 Managerial Communications

A-F only, 1 credit(s); prereq MBA student;
Instructor: Littlefield, Holly A
Description: Student may contact the instructor or department for information.

MBA 6150 Managerial Communications

A-F only, 1 credit(s); prereq MBA student;
Instructor: Syverson MA, JoAnn
Description: Student may contact the instructor or department for information.

MBA 6210 Marketing Management

A-F only, 3 credit(s); prereq MBA student;
Instructor: Upton, Kevin John
Description: Student may contact the instructor or department for information.

MBA 6210 Marketing Management

A-F only, 3 credit(s); prereq MBA student;
Instructor: Hansen, Robert A
Description: Student may contact the instructor or department for information.

MBA 6220 Operations Management

A-F only, 3 credit(s); prereq MBA student;
Instructor: Rungtusanatham PhD, M. Johnny
Description: Student may contact the instructor or department for information.

MBA 6220 Operations Management**A-F only, 3 credit(s); prereq MBA student;****Instructor:** Hill PhD,Arthur V**Description:** Student may contact the instructor or department for information.**MBA 6220 Operations Management****A-F only, 3 credit(s); prereq MBA student;****Instructor:** Sinha,Kingshuk Kanti**Description:** Student may contact the instructor or department for information.**MBA 6230 Financial Management****A-F only, 3 credit(s); prereq 6030, MBA student;****Instructor:** STAFF**Description:** Student may contact the instructor or department for information.**MBA 6300 Strategic Management****A-F only, 3 credit(s); prereq MBA student;****Instructor:** Zaheer,Aks**Description:** Student may contact the instructor or department for information.**MBA 6300 Strategic Management****A-F only, 3 credit(s); prereq MBA student;****Instructor:** Marcus,Alfred A**Description:** Student may contact the instructor or department for information.**MBA 6300 Strategic Management****A-F only, 3 credit(s); prereq MBA student;****Instructor:** Kaul,Aseem**Description:** Student may contact the instructor or department for information.**MBA 6315 The Ethical Environment of Business****A-F only, 2 credit(s); prereq MBA student;****Instructor:** Weinstein,Charles Aaron**Description:** Student may contact the instructor or department for information.**MBA 6315 The Ethical Environment of Business****A-F only, 2 credit(s); prereq MBA student;****Instructor:** Maitland,Ian**Description:** Student may contact the instructor or department for information.**MBA 6315 The Ethical Environment of Business****A-F only, 2 credit(s); prereq MBA student;****Instructor:** James,Ronald**Description:** Student may contact the instructor or department for information.**MBA 6501 Carlson Funds Enterprise: Growth****2 credit(s), max credits 6, 3 completions allowed; prereq MBA student or [applied to or accepted in] spring of 1st yr; [6031, ACCT 6100, ACCT 6160, MBA student, emphasis in finance mgmt] recommended;****Instructor:** STAFF**Description:** Student may contact the instructor or department for information.**MBA 6502 Carlson Funds Enterprise: Fixed Income****2 credit(s), max credits 6, 3 completions allowed; prereq [Applied to or accepted in] spring-A of 1st yr to begin in spring-B; [6031, ACCT 6100, ACCT 6160, MBA student, emphasis in finance mgmt] recommended;****Instructor:** STAFF**Description:** Student may contact the instructor or department for information.**MBA 6503 Carlson Ventures Enterprise****OPT No Aud, 2 credit(s), max credits 6, 3 completions allowed; prereq MBA student, approved application,****interview;****Instructor:** Nord,Tobin Lawrence**Description:** Student may contact the instructor or department for information.**MBA 6504 Carlson Consulting Enterprise****OPT No Aud, 2 credit(s), max credits 6, 3 completions allowed; prereq MBA student, approved application, interview;****Instructor:** Miller,Philip Jordan**Description:** Student may contact the instructor or department for information.**MBA 6505 Brands Enterprise****OPT No Aud, 2 credit(s), max credits 6, 3 completions allowed; prereq MBA student, approved application, interview;****Instructor:** Hopkins,David K**Description:** Student may contact the instructor or department for information.

Master of Business Taxation 3-108 Carlson School of Management

MBT 5200 Tax Accounting Methods and Periods**A-F only, 4 credit(s); prereq ACCT 5135, MBT student;****Instructor:** Carter,Gary Wm**Description:** Student may contact the instructor or department for information.**MBT 5220 Tax Research, Communication, and Practice****A-F only, 4 credit(s); prereq ACCT 5135, MBT student;****Instructor:** 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: 80% Lecture, 5% Discussion, 15% Small Group Activities.
Grading: 52% reports/papers, 30% special projects, 18% quizzes.**Exam Format:** There are 3 in-class multiple-choice quizzes that cover the material on IRS Practice and Procedure**MBT 5230 Corporate Taxation I****A-F only, 2 credit(s); prereq ACCT 5135, MBT student;****Instructor:** Sellner,Mark A**Description:** Student may contact the instructor or department for information.**MBT 5233 Mergers and Acquisitions I****A-F only, 2 credit(s); prereq 5230, MBT student;****Instructor:** Sellner,Mark A**Description:** Student may contact the instructor or department for information.**MBT 5346 FAS 109 Computations and Analysis****A-F only, 2 credit(s); prereq 5230, MBT student;****Instructor:** Sellner,Mark A**Description:** Student may contact the instructor or department for information.

MBT 5370 Taxation of Property Transactions

A-F only, 2 credit(s); prereq Acct 5135, MBT student;
Instructor: Miller,Rebecca Jo Phil
Description: Student may contact the instructor or department for information.

MBT 5380 Tax Aspects of International Business I

A-F only, 2 credit(s); prereq 5230, MBT student;
Instructor: Eckberg,Dennis L
Description: Student may contact the instructor or department for information.

Materials Science

151 Amundson Hall

MATS 1001 Advances in Chemical Engineering and Materials Science

S-N only, 1 credit(s); prereq credit will not be granted if credit received for: ChEn 1001; Recommended for [chemical engineering, materials science/engineering] majors; Credit will not be granted if credit has been received for: CHEN 1001;
Instructor: Holmes,Russell James
Description: Student may contact the instructor or department for information.

MATS 2001 Introduction to the Science of Engineering Materials

A-F only, 3 credit(s); prereq CHEM 1021, MATH 1272, PHYS 1301W, IT student;
Instructor: Schott,Jeffrey H.
Description: Student may contact the instructor or department for information.

MATS 2002 Introduction to the Science of Engineering Materials Laboratory

A-F only, 1 credit(s); prereq [2001 or Concurrent registration is required (or allowed) in 2001], IT student;
Instructor: Schott,Jeffrey H.
Description: Student may contact the instructor or department for information.

MATS 3011 Introduction to Materials Science and Engineering

3 credit(s); prereq CHEM 1021, [MATH 1272 or MATH 1372], PHYS 1302, IT student;
Instructor: Mkhoyan,Andre
Description: Student may contact the instructor or department for information.

MATS 3011 Introduction to Materials Science and Engineering

3 credit(s); prereq CHEM 1021, [MATH 1272 or MATH 1372], PHYS 1302, IT student;
Instructor: Mkhoyan,Andre
Description: Student may contact the instructor or department for information.

MATS 3012 Metals and Alloys

A-F only, 3 credit(s); prereq [3011, [MatS or ChEn upper div]] or instr consent ;
Instructor: Cococcioni,Matteo
Description: Student may contact the instructor or department for information.

MATS 3041 Industrial Assignment I

A-F only, 2 credit(s); prereq MatS upper div, completion of required courses in MatS program through fall sem of 3rd yr, GPA of at least 2.80, regis in co-op program; Credit will not be granted if credit has been received for: CHEN 3041;
Instructor: STAFF
Description: MatS 3041. Industrial Assignment I. (2 cr, 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 3801 Structural Characterization Lab

A-F only, 3 credit(s); prereq [3011, MatS upper div] or dept consent ;
Instructor: Frisbie,C Daniel
Description: Student may contact the instructor or department for information.

MATS 4001 Thermodynamics of Materials

A-F only, 4 credit(s); prereq MatS upper div;
Instructor: Shores,David A
Description: Student may contact the instructor or department for information.

MATS 4013 Electrical and Magnetic Properties of Materials

A-F only, 3 credit(s); prereq [3011, upper div [MatS or ChEn]] or instr consent;
Instructor: Holmes,Russell James
Description: Student may contact the instructor or department for information.

MATS 4041 Industrial Assignment II

A-F only, 2 credit(s); prereq 3041, completion of required courses in MatS program through fall sem of 4th yr, GPA of at least 2.80, registration in co-op program; Credit will not be granted if credit has been received for: CHEN 4041;
Instructor: STAFF
Description: MatS 4041. Industrial Assignment II (2 cr., regis in MatS co-op program, completion of required courses in MatS program through Fall semester/yr 4) Second industrial work assignment in MatS co-op program. Application of Materials Science principles to the solution of engineering design problems in an industrial work environment. Evaluation based on formal written report emphasizing design issues derived from work assignment.
Style: On-the-job training
Grading: 100% reports/papers.

MATS 4212 Ceramics

A-F only, 3 credit(s); prereq [3011, [MatS or ChEn upper div]] or instr consent ;
Instructor: Francis,Lorraine F
Description: The first part of the course will cover materials fundamentals (structure, bonding, phase equilibria, interfaces, defects, microstructure) as they apply to crystalline and non-crystalline ceramics. The second part will be devoted to the properties of ceramics: thermal, mechanical, electrical and optical. Special topics such as composites and thin films will also be included. There will be several "mini-labs" which will coincide with some major topics in the course. These mini-labs will involve demonstrations and hands-on experiments in the Materials Science & Engineering teaching labs (rm B30). Mini-labs will take place during class time.
Style: 80% Lecture, 10% Discussion. Demonstrations/hands-on
Grading: 40% mid exam, 25% final exam, 10% reports/papers, 25% problem solving.
Exam Format: Problems; short answer

MATS 4221 Materials Design and Performance

A-F only, 4 credit(s); prereq MatS 3012 or instr consent ;
Instructor: Gerberich,William W
Description: Student may contact the instructor or department for information.

MATS 4401 Senior Design Thesis I

A-F only, 2 credit(s); prereq =: 4400; MatS senior, dept consent , GPA of at least 3.00, project approval by faculty adviser;
Instructor: Francis,Lorraine F
Description: Student may contact the instructor or department for information.

MATS 4511W Corrosion and Electrochemistry of Corrosion
A-F only, 4 credit(s); prereq MatS 3011 or instr consent , upper div IT or grad; Meets CLE req of Writing Intensive;
Instructor: Shores,David A
Description: Student may contact the instructor or department for information.

MATS 4511W Corrosion and Electrochemistry of Corrosion
A-F only, 4 credit(s); prereq MatS 3011 or instr consent , upper div IT or grad; Meets CLE req of Writing Intensive;
Instructor: Shores,David A
Description: Student may contact the instructor or department for information.

MATS 4512 Corrosion and Electrochemistry of Corrosion
4 credit(s); prereq MatS 3011 or instr consent , upper div IT or grad;
Instructor: Shores,David A
Description: Student may contact the instructor or department for information.

MATS 4512 Corrosion and Electrochemistry of Corrosion
4 credit(s); prereq MatS 3011 or instr consent , upper div IT or grad;
Instructor: Shores,David A
Description: Student may contact the instructor or department for information.

MATS 4591 Independent Study in Materials Science
OPT No Aud, 1-3 credit(s), max credits 6, 3 completions allowed; prereq Upper div mat sci;
Instructor: STAFF
Description: Library, theoretical, laboratory, or design studies of scientific or engineering topics in materials science for an individual student. Course content and credits by arrangement with faculty supervisor. Design credits available if arranged with supervisor. May be used for Upper Division Honors Program experience if arranged with advisor and Honors advisor.

MATS 4593 Directed Study in Materials Science
A-F only, 1-4 credit(s), max credits 6, 3 completions allowed; prereq upper div MatS;
Instructor: STAFF
Description: Directed study under faculty supervision. Student should meet with faculty supervisor before registering to arrange study project, grading option, credits, and final report requirements.

MATS 4594 Directed Research in Materials Science
OPT No Aud, 1-3 credit(s), max credits 6, 3 completions allowed; prereq Upper div mat sci;
Instructor: STAFF
Description: Independent laboratory research under faculty supervision. Student should meet with faculty supervisor before registering to arrange research project, credits, grading option, and final report requirements.

MATS 8001 Structure and Symmetry of Materials
A-F only, 3 credit(s);
Instructor: Leighton,Chris
Description: Student may contact the instructor or department for information.

MATS 8002 Thermodynamics and Kinetics
A-F only, 3 credit(s);
Instructor: Aydil,Eray S
Description: Student may contact the instructor or department for information.

MATS 8221 Synthetic Polymer Chemistry
A-F only, 4 credit(s); prereq [Undergrad organic chemistry course, undergrad physical chemistry course] or instr consent ; Credit will not be granted if credit has been received for: CHEM 4221;
Instructor: Hillmyer,Marc Andrew

Description: Student may contact the instructor or department for information.

MATS 8993 Directed Study
1-12 credit(s), max credits 12, 1 completion allowed;
Instructor: Frisbie,C Daniel
Description: Student may contact the instructor or department for information.

MATS 8994 Directed Research
1-12 credit(s), max credits 12, 1 completion allowed;
Instructor: Frisbie,C Daniel
Description: Student may contact the instructor or department for information.

Mathematics

127 Vincent Hall

MATH 1001 Excursions in Mathematics
3 credit(s); prereq 3 yrs high school math or placement exam or grade of at least C- in GC 0731; Meets CLE req of Mathematical Thinking Core;
Instructor: Rejto,Peter A
Description: Student may contact the instructor or department for information.

MATH 1031 College Algebra and Probability
3 credit(s); prereq Satisfactory score on placement exam or grade of at least C- in [PSTL 731 or PSTL 732] Credit will not be granted if credit has been received for: 1051, 1151, 1155; Meets CLE req of Mathematical Thinking Core;
Instructor: STAFF
Description: Overview: Linear and quadratic equations and inequalities; graphs of equations, including lines, circles, parabolas, composition, inverses of functions; transformations of graphs; linear, quadratic models; polynomials; exponentials; logarithms; counting; probability. Audience: Business majors wanting to take Math 1142 and elementary education majors wanting to take Math 3113. Also works as prerequisite for Math 1151. Satisfies the CLE Mathematical Thinking requirement.

MATH 1038 College Algebra and Probability Submodule
A-F only, 1 credit(s); prereq 1051 or 1151 or 1155;
Instructor: STAFF
Description: Intended for students who have already had the equivalent of Math 1051 and need the Probability and Counting component of Math 1031. Students take the first part of Math 1031, and their grade is based on their performance up to the first midterm exam. Contact the department to get a permission number into this class. Students will register to Math 1038 but attend a section of Math 1031. Students should choose a section of Math 1031 they wish to attend before contacting the department.

MATH 1051 Precalculus I
3 credit(s); prereq Satisfactory score on placement test or grade of at least C- in [PSTL 731 or PSTL 732] Credit will not be granted if credit has been received for: 1031, 1151, 1155;
Instructor: STAFF
Description: This course assumes that students have a good working knowledge of high school algebra, at least through Algebra II. The course begins with a very brief review of high school algebra. Students needing a more extensive review should register for PsTL 0731 or PsTL 0732 Intermediate Algebra. Topics include linear, quadratic, polynomial, and rational equations and inequalities; graphs of equations, including lines, circles, parabolas, polynomial, rational, exponential, and logarithmic functions; compositions and inverses of functions; transformations of graphs; linear and quadratic models; linear, absolute value, polynomial, rational, exponential, and logarithmic functions, with applications. This course is for students who wish to complete precalculus at a moderate pace; the Math 1051/Math 1151 combination is

equivalent to Math 1155 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 1142 Short Calculus

4 credit(s); prereq Satisfactory score on placement test or grade of at least C- in [1031 or 1051]; Credit will not be granted if credit has been received for: MATH 1271; Meets CLE req of Mathematical Thinking Core;

Instructor: STAFF

Description: Overview: A one-semester tour of differential and integral calculus in one variable, and differential calculus in two variables. Does not involve any trigonometry. Emphasis on formulas and their interpretation and use in applications. Audience: Business, architecture, and agricultural science majors, and students who want some exposure to calculus. Does not serve as a prerequisite to any higher math course, but does satisfy the CLE Mathematical Thinking requirement.

MATH 1151 Precalculus II

3 credit(s); prereq Satisfactory score on placement exam or grade of at least C- in [1031 or 1051] credit will not be granted if credit received for: Math1155; Meets CLE req of Mathematical Thinking Core;

Instructor: 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.

MATH 1155 Intensive Precalculus

5 credit(s); prereq Satisfactory score on placement exam or grade of at least C- in [PSTL 731 or PSTL 732] Credit will not be granted if credit has been received for: Math 1031, 1051, 1151; Meets CLE req of Mathematical Thinking Core;

Instructor: Kirchner,Nicholas Raymond

Description: Student may contact the instructor or department for information.

MATH 1161 Statistics, Bioinformatics, and Discrete Mathematics

A-F only, 3 credit(s); prereq Three yrs high school math or placement exam Only Rochester-admitted students will be able to enroll in this course.; Meets CLE req of Mathematical Thinking Core;

Instructor: Huq,Aminul

Description: Student may contact the instructor or department for information.

MATH 1271 Calculus I

4 credit(s); prereq Satisfactory score on placement test or grade of at least C- in [1151 or 1155]; Credit will not be granted if credit has been received for: MATH 1142; Meets CLE req of Mathematical Thinking Core;

Instructor: STAFF

Description: Overview: Tangent lines; limits and continuity; differentiation: definition, basic rules, chain rule, rules for trig, exp and log functions; implicit differentiation; rates of change, max-min, related rates problems; 2nd derivative test; curve sketching; linear approximation and differentials; L'Hospital's rule; integration: definition, antidifferentiation, area; simple substitution; volumes of solids by cross sections and shells; work; 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 1272 Calculus II

4 credit(s); prereq [1271 or equiv] with grade of at least C-; Credit will not be granted if credit has been received for: MATH 1372;

Instructor: STAFF

Description: Overview: Techniques of integration, including integration by parts, simple trig substitutions, partial fractions. Basic numerical integration; improper integrals; arc length; area of surface of revolution. Separable differential equations, Euler's method, exponential growth and decay. Parametric curves and polar coordinates. Review of conic sections. Sequences and series, comparison and ratio tests, Taylor series and polynomials. Vectors in three dimensions, dot product, cross product, lines, planes, cylinders, quadric surfaces; cylindrical and spherical coordinates. Audience: Part of the standard calculus course for students outside of IT.

MATH 1371 IT Calculus I

4 credit(s); prereq IT, background in [precalculus, geometry, visualization of functions/graphs], instr consent; familiarity with graphing calculators recommended; Credit will not be granted if credit has been received for: MATH 1142; Meets CLE req of Mathematical Thinking Core;

Instructor: Miracle,Chester L

Description: Student may contact the instructor or department for information.

MATH 1371 IT Calculus I

4 credit(s); prereq IT, background in [precalculus, geometry, visualization of functions/graphs], instr consent; familiarity with graphing calculators recommended; Credit will not be granted if credit has been received for: MATH 1142; Meets CLE req of Mathematical Thinking Core;

Instructor: Lewicka,Marta

Description: Student may contact the instructor or department for information.

MATH 1371 IT Calculus I

4 credit(s); prereq IT, background in [precalculus, geometry, visualization of functions/graphs], instr consent; familiarity with graphing calculators recommended; Credit will not be granted if credit has been received for: MATH 1142; Meets CLE req of Mathematical Thinking Core;

Instructor: Guo,Ren

Description: Student may contact the instructor or department for information.

MATH 1372 IT Calculus II

4 credit(s); prereq IT, grade of at least C- in 1371; Credit will not be granted if credit has been received for: MATH 1272;

Instructor: Frank,David L

Description: Student may contact the instructor or department for information.

MATH 1372 IT Calculus II

4 credit(s); prereq IT, grade of at least C- in 1371; Credit will not be granted if credit has been received for: MATH 1272;

Instructor: Pogan,Alexandru Alin

Description: Student may contact the instructor or department for information.

MATH 1571H Honors Calculus I

4 credit(s); prereq Honors student and permission of University Honors Program; Credit will not be granted if credit has been received for: MATH 1142; Meets CLE req of Mathematical Thinking Core;

Instructor: Spirn,Daniel

Description: Student may contact the instructor or department for information.

MATH 2243 Linear Algebra and Differential Equations

4 credit(s); prereq 1272 or 1282 or 1372 or 1572; Credit will

not be granted if credit has been received for: MATH 2373;

Instructor: STAFF

Description: Overview: The course is divided into two somewhat related parts. Linear algebra: matrices and matrix operations, Gaussian elimination, matrix inverses, determinants, vector spaces and subspaces, dependence, Wronskian, dimension, eigenvalues, eigenvectors, diagonalization. ODE: Separable and first-order linear equations with applications, 2nd order linear equations with constant coefficients, method of undetermined coefficients, simple harmonic motion, 2x2 and 3x3 systems of linear ODE's with constant coefficients, solution by eigenvalue/eigenvectors, nonhomogenous linear systems; phase plane analysis of 2x2 nonlinear systems near equilibria. Audience: Part of the standard 2nd year calculus course for students outside of IT.

MATH 2263 Multivariable Calculus

4 credit(s); prereq 1272 or 1372 or 1572; Credit will not be granted if credit has been received for: MATH 2374;

Instructor: 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); prereq concurrent enrollment [2243 or 2263 or 2373 or 2374]; Credit will not be granted if credit has been received for: MATH 3283W;

Instructor: Diaconu, Adrian

Description: Student may contact the instructor or department for information.

MATH 2373 IT Linear Algebra and Differential Equations

4 credit(s); prereq [1272 or 1282 or 1372 or 1572], IT; Credit will not be granted if credit has been received for: MATH 2243;

Instructor: Miracle, Chester L

Description: Student may contact the instructor or department for information.

MATH 2373 IT Linear Algebra and Differential Equations

4 credit(s); prereq [1272 or 1282 or 1372 or 1572], IT; Credit will not be granted if credit has been received for: MATH 2243;

Instructor: Lerman, Gilad M

Description: Student may contact the instructor or department for information.

MATH 2373 IT Linear Algebra and Differential Equations

4 credit(s); prereq [1272 or 1282 or 1372 or 1572], IT; Credit will not be granted if credit has been received for: MATH 2243;

Instructor: Brenner, Eliot P

Description: Student may contact the instructor or department for information.

MATH 2374 IT Multivariable Calculus and Vector Analysis

4 credit(s); prereq [1272 or 1282 or 1372 or 1572], IT; Credit will not be granted if credit has been received for: MATH 2263;

Instructor: Wang, Jiaping

Description: Student may contact the instructor or department for information.

MATH 2374 IT Multivariable Calculus and Vector Analysis

4 credit(s); prereq [1272 or 1282 or 1372 or 1572], IT; Credit will not be granted if credit has been received for: MATH 2263;

Instructor: Sayas, Francisco Javier

Description: Student may contact the instructor or department for information.

MATH 2573H Honors Calculus III

4 credit(s); prereq Math 1572H, honors student and permission of University Honors Program; Credit will not be granted if credit has been received for: MATH 2263;

Instructor: Priky, Karel L

Description: Student may contact the instructor or department for information.

MATH 3113 Topics in Elementary Mathematics I

4 credit(s); prereq Grade of at least C- in [1031 or PSTL 1006] or placement exam;

Instructor: Stanton, Dennis W

Description: Student may contact the instructor or department for information.

MATH 3283W Sequences, Series, and Foundations: Writing Intensive

4 credit(s); prereq concurrent enrollment in [2243 or 2263 or 2373 or 2374]; Credit will not be granted if credit has been received for: MATH 2283; Meets CLE req of Writing Intensive;

Instructor: Baxter, John Robert

Description: Student may contact the instructor or department for information.

MATH 3592H Honors Mathematics I

A-F only, 5 credit(s); prereq dept consent; for students with mathematical talent;

Instructor: Moeckel, Richard B

Description: Student may contact the instructor or department for information.

MATH 4065 Theory of Interest

3 credit(s); prereq 1272 or 1372 or 1572; primarily for [mathematics, business] majors interested in actuarial science;

Instructor: Ashkenazi, Rina

Description: Student may contact the instructor or department for information.

MATH 4242 Applied Linear Algebra

4 credit(s); prereq 2243 or 2373 or 2573; Credit will not be granted if credit has been received for: MATH 4457;

Instructor: Moeckel, Richard B

Description: Student may contact the instructor or department for information.

MATH 4242 Applied Linear Algebra

4 credit(s); prereq 2243 or 2373 or 2573; Credit will not be granted if credit has been received for: MATH 4457;

Instructor: 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, SDU 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); prereq 2243 or 2373 or 2573; Credit will not be granted if credit has been received for: MATH 4457;

Instructor: Wang, Jiaping

Description: Student may contact the instructor or department for information.

MATH 4242 Applied Linear Algebra

- 4 credit(s); prereq 2243 or 2373 or 2573; Credit will not be granted if credit has been received for: MATH 4457;**
Instructor: Guo, Yujin
Description: Student may contact the instructor or department for information.
- MATH 4512 Differential Equations with Applications**
3 credit(s); prereq 2243 or 2373 or 2573;
Instructor: Meyers, Norman G
Description: Student may contact the instructor or department for information.
- MATH 4567 Applied Fourier Analysis**
4 credit(s); prereq 2243 or 2373 or 2573;
Instructor: Miller Jr, Willard
Description: Student may contact the instructor or department for information.
- MATH 4606 Advanced Calculus**
4 credit(s); prereq [2263 or 2374 or 2573], [2283 or 2574 or 3283 or instr consent]; Credit will not be granted if credit has been received for: 5615;
Instructor: Hejhal, Dennis A
Description: Student may contact the instructor or department for information.
- MATH 4653 Elementary Probability**
4 credit(s); prereq [2263 or 2374 or 2573]; [2283 or 2574 or 3283] recommended;
Instructor: Gray, Lawrence F
Description: Student may contact the instructor or department for information.
- MATH 4707 Introduction to Combinatorics and Graph Theory**
4 credit(s); prereq 2243, [2283 or 3283];
Instructor: Stanton, Dennis W
Description: Student may contact the instructor or department for information.
- MATH 4707 Introduction to Combinatorics and Graph Theory**
4 credit(s); prereq 2243, [2283 or 3283];
Instructor: White, Dennis E
Description: Student may contact the instructor or department for information.
- MATH 4995 Senior Project for CLA**
A-F only, 1 credit(s); prereq 2 sem of upper div math, dept consent;
Instructor: Gray, Lawrence F
Description: Student may contact the instructor or department for information.
- MATH 4995 Senior Project for CLA**
A-F only, 1 credit(s); prereq 2 sem of upper div math, dept consent;
Instructor: White, Dennis 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; prereq 2 sem upper div math, dept consent ; 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; prereq 2 sem upper div math, dept consent ; Meets CLE req of Writing Intensive;
Instructor: Rejto, Peter A
Description: Student may contact the instructor or department for information.
- MATH 4997W Senior project (Writing Intensive)**
A-F only, 1 credit(s), max credits 2; prereq 2 sem upper div
- math, dept consent ; Meets CLE req of Writing Intensive;**
Instructor: Rogness, Jonathan Peter
Description: Student may contact the instructor or department for information.
- MATH 4997W Senior project (Writing Intensive)**
A-F only, 1 credit(s), max credits 2; prereq 2 sem upper div math, dept consent ; Meets CLE req of Writing Intensive;
Instructor: O'Brien, Larry John
Description: Student may contact the instructor or department for information.
- MATH 5067 Actuarial Mathematics I**
4 credit(s); prereq 4065, [one sem [4xxx or 5xxx] [probability or statistics] course];
Instructor: O'Brien, Larry John
Description: Student may contact the instructor or department for information.
- MATH 5075 Mathematics of Options, Futures, and Derivative Securities I**
4 credit(s); prereq Two yrs calculus, basic computer skills;
Instructor: Shemyakin, Arkady
Description: Student may contact the instructor or department for information.
- MATH 5165 Mathematical Logic I**
4 credit(s); prereq 2283 or 3283 or Phil 5201 or CSci course in theory of algorithms or instr consent; Credit will not be granted if credit has been received for: MATH 4152;
Instructor: Richter, Wayne H
Description: See the web site for Professor Richter at <http://www.math.umn.edu/~richter/>
- MATH 5248 Cryptology and Number Theory**
4 credit(s); prereq 2 sems soph math;
Instructor: Baxter, John Robert
Description: Student may contact the instructor or department for information.
- MATH 5248 Cryptology and Number Theory**
4 credit(s); prereq 2 sems soph math;
Instructor: Brenner, Eliot P
Description: Student may contact the instructor or department for information.
- MATH 5251 Error-Correcting Codes, Finite Fields, Algebraic Curves**
4 credit(s); prereq 2 sems soph math;
Instructor: Cooper, Bobbe J
Description: Student may contact the instructor or department for information.
- MATH 5285H Honors: Fundamental Structures of Algebra I**
4 credit(s); prereq [2243 or 2373 or 2573], [2283 or 2574 or 3283];
Instructor: Lawson, Tyler
Description: Student may contact the instructor or department for information.
- MATH 5335 Geometry I**
4 credit(s); prereq [2243 or 2373 or 2573], [concurrent enrollment 2263 or concurrent enrollment 2374 or concurrent enrollment 2574];
Instructor: Rogness, Jonathan Peter
Description: Student may contact the instructor or department for information.
- MATH 5345 Introduction to Topology**
4 credit(s); prereq [2263 or 2374 or 2573], [concurrent enrollment 2283 or concurrent enrollment 2574 or concurrent enrollment 3283];
Instructor: Mosher, Bryan
Description: Student may contact the instructor or department for information.

MATH 5447 Theoretical Neuroscience**4 credit(s); prereq 2243 or 2373 or 2574;****Instructor:** Nykamp,Duane Q**Description:** Student may contact the instructor or department for information.**MATH 5485 Introduction to Numerical Methods I****4 credit(s); prereq [2243 or 2373 or 2573], familiarity with some programming language;****Instructor:** Stinis,Panos**Description:** Student may contact the instructor or department for information.**MATH 5535 Dynamical Systems and Chaos****4 credit(s); prereq [2243 or 2373 or 2573], [2263 or 2374 or 2574];****Instructor:** Nykamp,Duane Q**Description:** Student may contact the instructor or department for information.**MATH 5583 Complex Analysis****4 credit(s); prereq 2 sems soph math [including [2263 or 2374 or 2573], [2283 or 3283]] recommended;****Instructor:** Anderson,Greg William**Description:** Student may contact the instructor or department for information.**MATH 5587 Elementary Partial Differential Equations I****4 credit(s); prereq [2243 or 2373 or 2573], [2263 or 2374 or 2574];****Instructor:** Bao,ShiTing**Description:** Student may contact the instructor or department for information.**MATH 5587 Elementary Partial Differential Equations I****4 credit(s); prereq [2243 or 2373 or 2573], [2263 or 2374 or 2574];****Instructor:** Chen,Ming**Description:** Student may contact the instructor or department for information.**MATH 5615H Honors: Introduction to Analysis I****4 credit(s); prereq [[2243 or 2373], [2263 or 2374], [2283 or 3283]] or 2574;****Instructor:** Anderson,Greg William**Description:** Student may contact the instructor or department for information.**MATH 5615H Honors: Introduction to Analysis I****4 credit(s); prereq [[2243 or 2373], [2263 or 2374], [2283 or 3283]] or 2574;****Instructor:** Conn,Jack Frederic**Description:** Student may contact the instructor or department for information.**MATH 5651 Basic Theory of Probability and Statistics****4 credit(s); prereq [2263 or 2374 or 2573], [2243 or 2373]; [2283 or 2574 or 3283] recommended; Credit will not be granted if credit has been received for: Stat 4101, Stat 5101.;****Instructor:** Safonov,Mikhail V**Description:** Math 5651 is a basic introduction to probability with some applications to statistics. It presents the mathematical background for physical intuition. The theoretical and computational part is based on single- and multivariable calculus, which are prerequisites for this course. The text for the course is "Probability and Statistics", Third Edition, by Morris H. DeGroot and M.J. Schervish, published by Addison-Wesley. We plan to cover Chapters 1-5 (with some exceptions), and Sections 6.1-6.2. The grade will be based on two midterm exams, a final examination, and biweekly homework assignments. Math 5651 is essentially the same as Stat 5101, so that either course can serve as a prerequisite for the following three courses: Math 5652, Introduction to Stochastic Processes; Math 5654, Prediction and Filtering; and Stat 5102, Theory of Statistics II. Any or all of these courses may be taken for credit, and in any order.**Style:** 85% Lecture, 15% Discussion.**Grading:** 40% mid exam, 40% final exam, 20% problem solving.**Exam Format:** Problem solving and proofs**MATH 5652 Introduction to Stochastic Processes****4 credit(s); prereq 5651 or Stat 5101;****Instructor:** Zeitouni,Ofer**Description:** Topics: Conditioning. Markov chains. Martingales. Poisson processes. Renewal theory. Random walk and Brownian motion. This roughly covers the material in the official textbook: "Essentials of Stochastic Processes" by R. Durrett (Springer, 1999). Each student will be required to take notes from one lecture. The notes will be distributed to the class.**Style:** 100% Lecture.**Grading:** 10% reports/papers, 20% problem solving, 70% other evaluation. two exams during term, each 2 hours, each 35% of grade**MATH 5705 Enumerative Combinatorics****4 credit(s); prereq [2243 or 2373 or 2573], [2263 or 2283 or 2374 or 2574 or 3283];****Instructor:** Fristedt,Bert**Description:** Student may contact the instructor or department for information.**MATH 5711 Linear Programming and Combinatorial Optimization****4 credit(s); prereq 2 sems soph math [including 2243 or 2373 or 2573];****Instructor:** Rangarajan,Bharath**Description:** Student may contact the instructor or department for information.**MATH 8201 General Algebra****A-F only, 3 credit(s); prereq 4xxx algebra or equiv or instr consent;****Instructor:** Cooper,Bobbe J**Description:** Student may contact the instructor or department for information.**MATH 8201 General Algebra****A-F only, 3 credit(s); prereq 4xxx algebra or equiv or instr consent;****Instructor:** Cooper,Bobbe J**Description:** Student may contact the instructor or department for information.**MATH 8211 Commutative and Homological Algebra****A-F only, 3 credit(s); prereq 8202 or #;****Instructor:** Garrett,Paul B**Description:** Student may contact the instructor or department for information.**MATH 8251 Algebraic Number Theory****A-F only, 3 credit(s); prereq 8202 or instr consent;****Instructor:** Sperber,Steven I.**Description:** Student may contact the instructor or department for information.**MATH 8253 Algebraic Geometry****A-F only, 3 credit(s); prereq 8202 or instr consent;****Instructor:** Ciocan-Fontanine,Ionut**Description:** Student may contact the instructor or department for information.**MATH 8270 Topics in Algebraic Geometry****A-F only, 1-3 credit(s), max credits 12, 12 completions allowed; prereq Math 8201, Math 8202; offered for one year or one semester as circumstances warrant;****Instructor:** Messing,William**Description:** Student may contact the instructor or department for information.**MATH 8271 Lie Groups and Lie Algebras****A-F only, 3 credit(s); prereq 8302 or instr consent;**

Instructor: Jiang,Dihua

Description: Student may contact the instructor or department for information.

A-F only, 3 credit(s); prereq 5616 or instr consent;

Instructor: Mc Gehee,Richard P

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; prereq Grad math major or #; offered as one yr or one sem crse as circumstances warrant;

Instructor: Lyubeznik,Gennady

Description: Student may contact the instructor or department for information.

MATH 8651 Theory of Probability Including Measure Theory

3 credit(s); prereq 5616 or instr consent;

Instructor: Bobkov,Sergey G

Description: Student may contact the instructor or department for information.

MATH 8301 Manifolds and Topology

A-F only, 3 credit(s); prereq [Some point-set topology, algebra] or instr consent;

Instructor: Kahn,Donald William

Description: Student may contact the instructor or department for information.

MATH 8659 Stochastic Processes

3 credit(s); prereq 8652 or instr consent;

Instructor: Krylov,Nicolai Vladimi

Description: Student may contact the instructor or department for information.

MATH 8301 Manifolds and Topology

A-F only, 3 credit(s); prereq [Some point-set topology, algebra] or instr consent;

Instructor: Kahn,Donald William

Description: Student may contact the instructor or department for information.

MATH 8668 Combinatorial Theory

A-F only, 3 credit(s);

Instructor: White,Dennis E

Description: Student may contact the instructor or department for information.

MATH 8365 Riemannian Geometry

A-F only, 3 credit(s); prereq 8301 or basic point-set topology or instr consent;

Instructor: Li,Tian-Jun

Description: Student may contact the instructor or department for information.

MATH 8701 Complex Analysis

A-F only, 3 credit(s); prereq 5616 or instr consent;

Instructor: Marden,Albert

Description: Student may contact the instructor or department for information.

MATH 8401 Mathematical Modeling and Methods of Applied Mathematics

A-F only, 3 credit(s); prereq 4xxx numerical analysis and applied linear algebra or instr consent;

Instructor: Othmer,Hans George

Description: Student may contact the instructor or department for information.

MATH 8701 Complex Analysis

A-F only, 3 credit(s); prereq 5616 or instr consent;

Instructor: Marden,Albert

Description: Student may contact the instructor or department for information.

MATH 8441 Numerical Analysis and Scientific Computing

3 credit(s); prereq [4xxx analysis, 4xxx applied linear algebra] or #;

Instructor: Luskin,Mitchell B

Description: Student may contact the instructor or department for information.

MATH 8801 Functional Analysis

A-F only, 3 credit(s); prereq 8602 or instr consent;

Instructor: Polacik,Peter

Description: Student may contact the instructor or department for information.

MATH 8445 Numerical Analysis of Differential Equations

A-F only, 3 credit(s); prereq 4xxx numerical analysis, 4xxx partial differential equations or instr consent;

Instructor: Arnold,Douglas N.

Description: Student may contact the instructor or department for information.

MATH 8991 Independent Study

S-N only, 1-6 credit(s), max credits 24, 4 completions allowed; prereq instr consent;

Instructor: Adams,Scot Robert

Description: Student may contact the instructor or department for information.

MATH 8501 Theory of Ordinary Differential Equations

A-F only, 3 credit(s); prereq 4xxx ODE or instr consent;

Instructor: Scheel,Arnd

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; prereq instr consent;

Instructor: Calderer,Carme

Description: Student may contact the instructor or department for information.

MATH 8583 Theory of Partial Differential Equations

A-F only, 3 credit(s); prereq [Some 5xxx PDE, 8601] or instr consent;

Instructor: Spirn,Daniel

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; prereq instr consent;

Instructor: Polacik,Peter

Description: Student may contact the instructor or department for information.

MATH 8601 Real Analysis

A-F only, 3 credit(s); prereq 5616 or instr consent;

Instructor: Mc Gehee,Richard P

Description: Student may contact the instructor or department for information.

MATH 8993 Directed Study

S-N only, 1-6 credit(s), max credits 24, 6 completions allowed; prereq instr consent;

Instructor: Adams,Scot Robert

Description: Student may contact the instructor or department for information.

MATH 8601 Real Analysis

MATH 8993 Directed Study

S-N only, 1-6 credit(s), max credits 24, 6 completions allowed; prereq instr consent;

Instructor: Mc Gehee,Richard P

Description: Student may contact the instructor or department for information.

MATH 8993 Directed Study

S-N only, 1-6 credit(s), max credits 24, 6 completions allowed; prereq instr consent;

Instructor: Santosa,Fadil

Description: Student may contact the instructor or department for information.

Mathematics Education

145 Peik Hall

MTHE 3101 Mathematics and Pedagogy for Elementary Teachers I

A-F only, 4 credit(s); prereq [College algebra, elementary FOE student] or instr consent ;

Instructor: Cramer,Kathleen Ann

Description: Math content knowledge of K-6 in an environment modeling pedagogy for future implementation. Integrated content/methods. Problem solving, connections, communication, reasoning, representation. Functions, proportionality, number, numeration.

MTHE 3101 Mathematics and Pedagogy for Elementary Teachers I

A-F only, 4 credit(s); prereq [College algebra, elementary FOE student] or instr consent ;

Instructor: Monson,Debra Sue

Description: Math content knowledge of K-6 in an environment modeling pedagogy for future implementation. Integrated content/methods. Problem solving, connections, communication, reasoning, representation. Functions, proportionality, number, numeration.

MTHE 3102 Mathematics and Pedagogy for Elementary Teachers II

A-F only, 4 credit(s); prereq 3101, college algebra;

Instructor: 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 5021 Algebraic Structures in School Mathematics

3 credit(s); prereq Tchg exper or instr consent;

Instructor: Wyberg,Terrence R

Description: Pedagogy, content, and instructional strategies for teaching arithmetic. Content and issues relevant to the algebra curriculum. Instructional materials and technology appropriate for arithmetic. Each offering of the course will focus on either elementary/middle or middle/secondary grade levels.

MTHE 5305 Middle School Mathematics Methods

A-F only, 2 credit(s); prereq Elem ed licensure student;

Instructor: Wyberg,Terrence R

Description: The unique needs of middle school students in the mathematics classroom. Mathematics content and pedagogical skills. Adolescent development/psychology. Field placement in a middle school mathematics classroom.

MTHE 5314 Teaching and Learning Mathematics

3 credit(s); prereq Math Ed or MEd or CI MEd or grad student or instr consent ;

Instructor: Clarkson,Lesa M

Description: Methods, materials, and curriculum development. Principles of learning. Review of research. Preparation/evaluation of tests, units, and materials of instruction. Recent developments in mathematics curriculum and in instructional alternatives. Issues in teaching/learning. Program planning/evaluation.

MTHE 5355 Mathematics for Diverse Learners

3 credit(s); prereq Teaching license or student in elem ed or special ed or instr consent ;

Instructor: Clarkson,Lesa M

Description: Student may contact the instructor or department for information.

MTHE 5993 Directed Studies in Mathematics Education

S-N only, 2 credit(s), max credits 3, 1 completion allowed; prereq Math ed MEd student, instr consent;

Instructor: STAFF

Description: Secondary school classroom teaching project designed to improve specific teaching skills, planned by student and approved and directed by student's advisor as part of MthE program.

MTHE 8501 Theory and Classical Research in Mathematics Education

3 credit(s); prereq Grad math educ major;

Instructor: Moore,Tamara J.

Description: Critical review of research and relevant theoretical formulations; criteria for appraising research methods; educational implications.

Mechanical Engineering

125 Mechanical Engineering

ME 2011 Introduction to Engineering

A-F only, 4 credit(s); prereq IT lower div;

Instructor: Durfee,William K

Description: Visit the course web site for a complete description.

ME 3041 Industrial Assignment I

A-F only, 2 credit(s); prereq ME upper div, enrolled in ME co-op program;

Instructor: Marple,Virgil A

Description: (2 cr per sem; prereq upper div ME, regis in Me co-op program; complete co-op sequence 3041, 4042, 4043 for credit req) Industrial work assignment in mechanical engineering co-op program. Evaluation based on student's formal report covering the quarter's work assignment.

Style: On the job training

Grading: 100% reports/papers.

ME 3221 Design and Manufacturing I: Engineering Materials and Manufacturing Processes

A-F only, 4 credit(s); prereq 2011, AEM 3031, MatS 2001, ME upper div;

Instructor: Klamecki,Barney Eugene

Description: Student may contact the instructor or department for information.

ME 3221 Design and Manufacturing I: Engineering Materials and Manufacturing Processes

A-F only, 4 credit(s); prereq 2011, AEM 3031, MatS 2001, ME upper div;

Instructor: Klamecki,Barney Eugene

Description: Student may contact the instructor or department for information.

ME 3221 Design and Manufacturing I: Engineering Materials and Manufacturing Processes

A-F only, 4 credit(s); prereq 2011, AEM 3031, MatS 2001, ME upper div;

Instructor: Klamecki,Barney Eugene

Description: Student may contact the instructor or department for information.

ME 3222 Design and Manufacturing II

A-F only, 4 credit(s); prereq [3221 or Concurrent registration is required (or allowed) in 3221], [CSci 1113 or equiv], ME upper div;

Instructor: Kelso,Frank M

Description: Student may contact the instructor or department

for information.

ME 3281 System Dynamics and Control

A-F only, 4 credit(s); prereq AEM 2021, [Math 2243 or Math 2373], ME upper div;
Instructor: Sun,Zongxuan
Description: Student may contact the instructor or department for information.

ME 3324 Introduction to Thermal Science

A-F only, 3 credit(s); prereq Chem 1021, Math 2243, Phys 1301, [IT student or COAFES pre-BAE major];
Instructor: Bischof,John C
Description: Student may contact the instructor or department for information.

ME 3331 Thermal Sciences I

A-F only, 3 credit(s); prereq Chem 1021, Phys 1301, IT student;
Instructor: Ramsey,James W
Description: Student may contact the instructor or department for information.

ME 3332 Thermal Sciences II

A-F only, 3 credit(s); prereq Math 2243, 3331, ME upper div credit will not be granted if credit already received for: ME 3322;
Instructor: Bischof,John C
Description: Student may contact the instructor or department for information.

ME 3333 Thermal Sciences III

A-F only, 3 credit(s); prereq 3332, ME upper div credit will not be granted if credit already received for: ME 3322;
Instructor: Simon,Terrence W
Description: Student may contact the instructor or department for information.

ME 4031W Basic Mechanical Measurements Laboratory

A-F only, 4 credit(s); prereq [3333 or Concurrent registration is required (or allowed) in 3333], IE 4521, upper div ME;
Meets CLE req of Writing Intensive;
Instructor: Mc Murry,Peter H
Description: Student may contact the instructor or department for information.

ME 4043W Industrial Assignment II

A-F only, 4 credit(s); prereq 3041; Meets CLE req of Writing Intensive;
Instructor: Marple,Virgil A
Description: Student may contact the instructor or department for information.

ME 4044 Industrial Assignment III

A-F only, 2 credit(s); prereq ME upper div, registration in ME co-op program;
Instructor: Marple,Virgil A
Description: Student may contact the instructor or department for information.

ME 4054W Design Projects

A-F only, 4 credit(s); prereq 2011, 3221, 3222, 3281, 3321, 3322, 4031W, AEM 2021, AEM 3031, EE 3005; Meets CLE req of Writing Intensive;
Instructor: Mantell,Susan C
Description: Student may contact the instructor or department for information.

ME 4081H Mechanical Engineering Honors Thesis I

A-F only, 2 credit(s); prereq ME upper div honors student, instr consent ;
Instructor: Chase,Thomas Richard
Description: Student may contact the instructor or department for information.

ME 4131W Thermal Environmental Engineering Laboratory

A-F only, 4 credit(s); prereq 3322, 4031W, [ME upper div or grad student]; Meets CLE req of Writing Intensive;
Instructor: Kuehn,Thomas Howard
Description: Student may contact the instructor or department for information.

ME 4231 Motion Control Laboratory

A-F only, 4 credit(s); prereq 3281, 4031W, ME upper div;
Instructor: Rajamani,Rajesh
Description: Student may contact the instructor or department for information.

ME 4232 Fluid Power Control Lab

A-F only, 4 credit(s); prereq 3281, 4031W, ME upper div;
Instructor: Li,Perry Y
Description: This course's objectives are: 1)Introduce fluid power component, circuits, and systems 2)Provide hands on experience in design, analysis and implementation of control systems for real and physical systems; 3)Provide first hand experience in modeling, control and other dynamic systems concepts, such as in ME3281. Students will design, build and study hydraulic circuits in the first half of the semester, and design, analyze and implement controllers of different sophistications for electrohydraulic systems in the second half. There will be extensive use of Matlab/Simulink in analysis, implementation and design. This course emphasizes laboratory experience and making connections between physical systems and mathematical models.
Style: 33% Lecture, 66% Laboratory.
Exam Format: There will be one oral final exam

ME 4331 Thermal Engineering Laboratory

A-F only, 4 credit(s); prereq [3321, 3322, 4031W], [IT upper div or grad student];
Instructor: Goldstein,Richard J
Description: Student may contact the instructor or department for information.

ME 4431W Energy Conversion Systems Laboratory

A-F only, 4 credit(s); prereq 3333, 4031W, [IT upper div or grad student]; Meets CLE req of Writing Intensive;
Instructor: Kittelson,David Burnell
Description: Student may contact the instructor or department for information.

ME 4431W Energy Conversion Systems Laboratory

A-F only, 4 credit(s); prereq 3333, 4031W, [IT upper div or grad student]; Meets CLE req of Writing Intensive;
Instructor: Kittelson,David Burnell
Description: Student may contact the instructor or department for information.

ME 5090 Advanced Engineering Problems

1-4 credit(s), max credits 4, 1 completion allowed; prereq ME upper div, instr consent ;
Instructor: Sparrow,Ephraim M
Description: Student may contact the instructor or department for information.

ME 5090 Advanced Engineering Problems

1-4 credit(s), max credits 4, 1 completion allowed; prereq ME upper div, instr consent ;
Instructor: Girshick,Steven L
Description: Student may contact the instructor or department for information.

ME 5103 Thermal Environmental Engineering

A-F only, 4 credit(s); prereq IT upper div or grad, 3322 or 3323;
Instructor: Kuehn,Thomas Howard
Description: The main objective of this course is to gain a better understanding of man-made environments, primarily buildings, and to use this knowledge to quantify energy use, human thermal comfort, and occupant health. Topics include psychrometrics, forced air heating and cooling systems, heat

transfer through composite structures, ventilation, air cleaning, solar energy, and energy estimation methods. Applications include residences, commercial office buildings and specialized environments such as clean rooms, hospital operating rooms, museums, and spacecraft. Designing and operating building systems to protect occupants from infectious airborne agents is also addressed.

Style: 80% Lecture, 20% Discussion.

Grading: 40% mid exam, 40% final exam, 20% problem solving.

Exam Format: problem solving

ME 5113 Aerosol/Particle Engineering

A-F only, 4 credit(s); prereq IT upper div or grad student;

Instructor: Pui, David Y

Description: Student may contact the instructor or department for information.

ME 5211 Human Factors and Work Analysis

A-F only, 4 credit(s); Credit will not be granted if credit has been received for: IE 5511;

Instructor: Hayes, Caroline Clarke

Description: Student may contact the instructor or department for information.

ME 5221 Computer-Assisted Product Realization

A-F only, 4 credit(s); prereq 3221, AEM 3031, CSci 1113, MatS 2001;

Instructor: Klamecki, 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 used for mold and product production. The project outcomes are a product design that has been evaluated by producing and testing the product and a process design that has been evaluated by comparing predicted and measured process behavior and part characteristics. Details of a previous offering of the course are available on the course web site listed below.

Style: 50% Lecture, 50% Laboratory. Lecture time includes lecture, discussion and project progress presentation

Grading: 50% special projects, 50% laboratory evaluation. 50% of grade based on group presentations and final report, 50% based on individual lab reports and class participation

Exam Format: No examinations, 3-4 progress presentations during the semester, a group final presentation and report and 3-4 individual lab reports

ME 5223 Materials in Design

4 credit(s); prereq 3221;

Instructor: Ramalingam, Subbiah

Description: This course introduces principles for the selection of materials to fulfill specific functional requirements, to guard against progressive and/or catastrophic failure, and to meet design/manufacturing requirements. Contemporary designs are characterized by (a) high power density, (b) designs exploiting combination of physical properties, (c) designs based on second order properties, and other engineering schemes. Few products

of current technology are purely mechanical. Electrical and electronic functions are increasingly integrated with mechanical functions. Most advanced technology products have become mechatronic. Therefore, the first half of this course stresses both the mechanical aspects of design and the other properties (thermal, electrical, etc) of significance in design. In the last two decades, polymers have emerged as a versatile and widely used engineering material. Engineering with polymers constitutes the second part of this course. Principles of pseudo-elastic design, fracture mechanics, creep, and thermo-rheological modeling including viscoelasticity are introduced. Pair of other primary references used for instruction are also available in the web in full text version. Expected background includes a course each in materials science, deformable body mechanics, and mechanical design. Prior background in CAE would be an advantage. Course credit of 4 hours will require 6 and 8 hours/week of reading, review and work.

Style: 80% Lecture, 20% Discussion.

Grading: 30% final exam, 5% class participation, 25% problem solving, 40% other evaluation. midterms (2 at 20% each)

Exam Format: Verbal response (part A) + Problem solving (part B)

ME 5228 Introduction to Finite Element Modeling, Analysis, and Design

A-F only, 4 credit(s); prereq IT upper div or grad, 3221, AEM 3031, CSci 1113, MatS 2001;

Instructor: Tamma, Kumar K

Description: Student may contact the instructor or department for information.

ME 5241 Computer-Aided Engineering

A-F only, 4 credit(s); prereq IT upper div or grad, 3222, CSci 1113 or equiv;

Instructor: Kelso, Frank M

Description: Student may contact the instructor or department for information.

ME 5243 Advanced Mechanism Design

A-F only, 4 credit(s); prereq IT upper div or grad, 3222 or equiv, basic kinematics and dynamics of machines; knowledge of CAD packages such as Pro-E recommended;

Instructor: Chase, Thomas Richard

Description: Student may contact the instructor or department for information.

ME 5281 Analog and Digital Control

4 credit(s); prereq 3281;

Instructor: salapaka, murti v

Description: Student may contact the instructor or department for information.

ME 5341 Case Studies in Thermal Engineering and Design

A-F only, 4 credit(s); prereq IT upper div or grad student, 3321, 3322;

Instructor: Sparrow, Ephraim M

Description: This course may be the most useful among those offered in mechanical engineering. Real-world engineering problems are brought into the classroom. To solve problems of such real complexity, powerful computational tools are taught. These include ANSYS thermal (heat conduction), ANSYS structural and thermal stresses. The main part of the course is computational fluid dynamics (CFD). For this, CFX software is taught. These software codes are applied to numerous real-world problems. No prior experience with software is needed. No exams or quizzes. No textbook. Two projects. One-on-one computer lab help is available.

ME 5344 Thermodynamics of Fluid Flow with Applications

A-F only, 4 credit(s); prereq IT upper div or grad student, 3321, 3322;

Instructor: Sparrow, Ephraim M

Description: Student may contact the instructor or department for information.

ME 5446 Introduction to Combustion

A-F only, 4 credit(s); prereq IT upper div or grad student, 3321, 3322;
Instructor: Kulacki, Francis A
Description: Student may contact the instructor or department for information.

ME 5666 Modern Thermodynamics

A-F only, 4 credit(s); prereq 3331 or equiv;
Instructor: Hubel, Allison
Description: Student may contact the instructor or department for information.

ME 8221 New Product Design and Business Development I

A-F only, 4 credit(s); prereq IT grad student, some design experience; Credit will not be granted if credit has been received for: ENTR 6087;
Instructor: Rao, Dileep R
Description: See the course web site for a complete description.

ME 8221 New Product Design and Business Development I

A-F only, 4 credit(s); prereq IT grad student, some design experience; Credit will not be granted if credit has been received for: ENTR 6087;
Instructor: Durfee, William K
Description: See the course web site for a complete description.

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 8285 Vehicle Dynamics and Control

A-F only, 3 credit(s); prereq 5281 or EE 5231 or equiv;
Instructor: Rajamani, Rajesh
Description: Student may contact the instructor or department for information.

ME 8341 Conduction

A-F only, 3 credit(s); prereq Undergrad class in heat transfer or instr consent ;
Instructor: Kulacki, Francis A
Description: Student may contact the instructor or department for information.

ME 8343 Radiation

A-F only, 3 credit(s); prereq Undergrad class in heat transfer or instr consent ;
Instructor: Lipinski, Wojciech
Description: Student may contact the instructor or department for information.

ME 8345 Computational Heat Transfer and Fluid Flow

3 credit(s); prereq IT grad student;
Instructor: Garrick, Sean Clifford
Description: Student may contact the instructor or department for information.

ME 8361 Molecular Gas Dynamics

A-F only, 3 credit(s); prereq IT grad student; Credit will not be granted if credit has been received for: AEM 8231;
Instructor: Girshick, Steven L
Description: Student may contact the instructor or department for information.

ME 8772 Advanced Transportation Technologies Seminar

S-N only, 1 credit(s); Credit will not be granted if credit has been received for: CE 8213;
Instructor: Donath, Max
Description: Student may contact the instructor or department for information.

ME 8773 Graduate Seminar

S-N only, 1 credit(s); prereq IT grad student;

Instructor: Gupta, Diwakar

Description: Student may contact the instructor or department for information.

ME 8774 Graduate Seminar

S-N only, 1 credit(s); prereq 8773;

Instructor: Gupta, Diwakar

Description: Student may contact the instructor or department for information.

ME 8794 Mechanical Engineering Research

1-6 credit(s), max credits 10, 10 completions allowed; prereq instr consent ;

Instructor: Barocas, Victor Howard

Description: Student may contact the instructor or department for information.

ME 8951 Plan B

A-F only, 3 credit(s);

Instructor: Kortshagen, Uwe Richard

Description: Student may contact the instructor or department for information.

Medical Industry Leadership Institute

4-145 Carlson School of Management

MILI 5995 Medical Industry Valuation Laboratory

A-F only, 2 credit(s); prereq instr consent ;

Instructor: Nelson, Randall Stephen

Description: Student may contact the instructor or department for information.

MILI 5999 Independent Study

A-F only, 1-8 credit(s), max credits 16;

Instructor: Parente, Stephen T

Description: Student may contact the instructor or department for information.

MILI 6562 Information Technology in Health Care

2 credit(s); prereq MBA student;

Instructor: STAFF

Description: Student may contact the instructor or department for information.

MILI 6995 Medical Industry Valuation Laboratory

OPT No Aud, 2 credit(s), max credits 6, 3 completions allowed; prereq Grad student;

Instructor: STAFF

Description: Interdisciplinary student teams create rapid production market analysis of promising medical technologies/services to determine potential for success in market. Exposure to University innovations, venture firms, inventors.

MILI 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.

Medicinal Chemistry

8-101 Weaver-Densford Hall

MEDC 5245 Introduction to Drug Design

A-F only, 3 credit(s); prereq Chem; Credit will not be granted if credit has been received for: PHAR 6245;

Instructor: Wagner, Carston R

Description: Concepts that govern design/discovery of drugs.

Physical, bioorganic, medicinal chemical principles applied to explain rational design, mechanism of action drugs.

MEDC 5700 General Principles of Medicinal Chemistry
A-F only, 2 credit(s); prereq MedC grad student or instr consent;
Instructor: Tretyakova,Natalia Yurievna
Description: Student may contact the instructor or department for information.

MEDC 8100 Medicinal Chemistry Seminar
1 credit(s), max credits 6, 6 completions allowed; prereq Grad major or instr consent;
Instructor: Abul-Hajj,Yusuf J
Description: Student may contact the instructor or department for information.

MEDC 8800 Medicinal Chemistry Laboratory Techniques
S-N only, 1-2 credit(s), max credits 4, 4 completions allowed; prereq Grad med chem major or instr consent;
Instructor: Wagner,Carston R
Description: Student may contact the instructor or department for information.

MEDC 8900 Research in Medicinal Chemistry
A-F only, 1-4 credit(s), max credits 8, 8 completions allowed; prereq Grad med chem major or instr consent;
Instructor: Wagner,Carston R
Description: Student may contact the instructor or department for information.

Medieval Studies

131 Nolte Center

MEST 3610 Topics in Medieval Studies: German Medieval Literature
3 credit(s), max credits 24, 8 completions allowed;
Instructor: laneva-Lockney,Arsena
Description: Student may contact the instructor or department for information.

MEST 3610 Topics in Medieval Studies: German Civilization and Culture: Middle Ages-1700
3 credit(s), max credits 24, 8 completions allowed;
Instructor: Wakefield,Ray M
Description: This course, with lectures in English, offers an overview of the cultural, political, and social development of the German-speaking countries from the earliest days of contact between the Germanic tribes and the Romans until 1700. Emphasis will be placed on the way in which present-day Germany views its medieval and early modern past, and the role of the Middle Ages, the Reformation, and the Thirty Years War in the creation of a German national identity. Topics to be discussed include myths about the origins of the Germans, the Germanic reshaping of the ancient Roman world, the role of the German Empire in the development of medieval Christianity, the social position of women in medieval and early modern times, medieval and early modern court culture, Reformation and Counter-Reformation debates, Baroque culture in the German Empire. Discussions will involve many types of cultural artifacts, e.g., literary, historical, religious, philosophical texts; paintings, engravings, architecture; medieval and early modern music. Authors to be discussed include Tacitus, Einhard, Hildegard von Bingen, Luther, Grimmelshausen, et al. English discussion sections; question-and-answer sessions in German.

MEST 3610 Topics in Medieval Studies: Scandinavian Myths
3 credit(s), max credits 24, 8 completions allowed;
Instructor: Liberman,Anatoly
Description: Student may contact the instructor or department for information.

MEST 3610 Topics in Medieval Studies: Age of St. Augustine of Hippo
3-4 credit(s), max credits 24, 8 completions allowed;
Instructor: Nicholson,Oliver
Description: Student may contact the instructor or department for information.

MEST 3610 Topics in Medieval Studies: History of the Crusades
3 credit(s), max credits 24, 8 completions allowed;
Instructor: Lower,Michael T
Description: Student may contact the instructor or department for information.

MEST 4610 Intermediate Topics in Medieval Studies: Old English I
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: Introduction to Middle High German
3 credit(s), max credits 15, 5 completions allowed; prereq One yr work in some area of Middle Ages, reading knowledge of appropriate language, instr consent ;
Instructor: Firchow,Evelyn S
Description: Student may contact the instructor or department for information.

MEST 5610 Advanced Topics in Medieval Studies: Old Norse Language and Literature
3 credit(s), max credits 15, 5 completions allowed; prereq One yr work in some area of Middle Ages, reading knowledge of appropriate language, instr consent ;
Instructor: Grimstad,Kaaren E
Description: Student may contact the instructor or department for information.

MEST 5610 Advanced Topics in Medieval Studies: The Icelandic Saga
3 credit(s), max credits 15, 5 completions allowed; prereq One yr work in some area of Middle Ages, reading knowledge of appropriate language, instr consent ;
Instructor: Grimstad,Kaaren E
Description: Student may contact the instructor or department for information.

MEST 5610 Advanced Topics in Medieval Studies: Medieval Mediterranean World: Econ/Culture
3 credit(s), max credits 15, 5 completions allowed; prereq One yr work in some area of Middle Ages, reading knowledge of appropriate language, instr consent ;

Instructor: Reyerson, Kathryn L

Description: Student may contact the instructor or department for information.

MEST 5610 Advanced Topics in Medieval Studies: Old Saxon
3 credit(s), max credits 15, 5 completions allowed; prereq One yr work in some area of Middle Ages, reading knowledge of appropriate language, instr consent ;

Instructor: Liberman, Anatoly

Description: Old Saxon is a medieval Germanic language, known mainly from the /Heliand/ (/The Savior/), one of the greatest poetic monuments of old European literature. This life of Jesus, addressed, as it seems, to a recently converted audience and told by a poet of exceptional talent, is a rare window into the language, culture, and mentality of the past. The entire text cannot be covered in one semester, but we will read the most representative passages. As a rule, this course attracts a few graduate students who have had some previous exposure to Old Germanic, and five or six undergraduates to whom everything will be new. Our initial speed will be geared toward the second group (that is, in September and part of October we will be moving very slowly), but in five weeks or so the beginners will feel nearly as comfortable as the better prepared graduate students. The course presupposes neither tests nor papers. Its success and the grades will depend exclusively on attendance and performance in class. In addition to weekly assignments, short book reports are envisaged. Every student will be asked to read an article or a chapter in a book in English or Germ and tell its contents to the rest of the group.

MEST 8110 Seminar in Medieval Studies: Medieval Saints' Lives

A-F only, 3-4 credit(s), max credits 48, 16 completions allowed; prereq Appropriate languages, instr consent ; Instructor: Scheil, Andrew

Description: This research seminar is an advanced exploration of medieval hagiography in the British Isles from ca. 650-1500. Saints' lives constitute an important conduit for narrative desire in an era before the novel; like any widespread narrative form, hagiography displays the ideological fault-lines of its culture, those fascinating moments when medieval culture bodies forth its sublimated hopes and fears. Touched by the divine in their earthly lives, saints bridge the gap between humanity and the ineffable; the imperatives of literature, history, theology, and popular religiosity all meet in the composition of a saint's earthly story. Our readings will be chiefly in Latin, Old English and Middle English; translations will be provided for the entire class, with weekly additional translation exercises for those with skills in the appropriate languages. The course will be of interest to graduate students in English, Classical and Near Eastern Studies, History, Germanic Philology, Religious Studies and so forth. Further details available upon request; interested students should contact the instructor as soon as possible so the readings can be tailored to your interests and abilities.

MEST 8110 Seminar in Medieval Studies: Experiments in Romance

A-F only, 3 credit(s), max credits 48, 16 completions allowed; prereq Appropriate languages, instr consent ; Instructor: Brown, Mary Frances

Description: Student may contact the instructor or department for information.

Microbial Engineering

240 Gortner Lab

MICE 8920 Teaching Practicum

1 credit(s), max credits 4, 4 completions allowed; prereq Grad MicE major;

Instructor: Brooker, Robert James

Description: Student may contact the instructor or department for information.

MICE 8990 Biotechnology Seminar

1 credit(s), max credits 2; prereq First-yr students enroll S-N, as they do not make a presentation; second-yr students enroll A-F, as they present a seminar;

Instructor: Ellis, Lynda B

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); prereq [BIOL 1002 or BIOL 1009 or BIOL 2002], CHEM 2301, Concurrent registration is required (or allowed) in CHEM 2302; Credit will not be granted if credit has been received for: VBS 2032;

Instructor: Mohr, Christian D

Description: Course covers the taxonomy, physiology, biochemistry, pathogenesis, immunology, and ecology of microbes including fungi, bacteria, and viruses. Molecular structure in relation to microbial function and disease is also covered. Course includes a laboratory. Course will utilize WEBCT VISTA. Course texts: MicB 3301 Laboratory Manual, Microbiology-Prescott, Harley and Klein, McGraw-Hill, 6th Edition. Target audience: undergraduate science majors (including Biology, Biochemistry, Microbiology, Cell Biology, and Genetics).

Style: 60% Lecture, 40% Laboratory.

Grading: 60% other evaluation. based on four exams; 40% based on laboratory quizzes, reports and performance

Exam Format: Short answer, fill in the blank, true/false, multiple choice

MICB 4001 Microorganisms and Disease

2 credit(s); prereq 4 cr biol sci or instr consent ;

Instructor: Fleischmann, William Robert

Description: The course will begin with several lectures that will introduce normal floral organisms; discuss features of pathogenic microorganisms that contribute to their pathogenicity; discuss diagnostic tools for identification of microorganisms; introduce immune mechanism of importance in controlling microbial invasion; and discuss strategies for vaccines and antibiotics. The course will introduce bacteria, concentrating on bacterial structure, growth, metabolism, and genetics. Then, members of the various bacterial groups will be presented and discussed, concentrating on their pathogenic mechanisms and the diseases that they cause. The course will provide a brief overview of fungi and protozoan parasites, concentrating on their pathogenic mechanisms and the diseases that they cause. The course will introduce viruses, concentrating on viral structure, classification, and viral replication strategies. Then, members of the various viral groups will be presented and discussed, concentrating on their pathogenic mechanisms and the diseases that they cause. Three examinations and a final will be offered.

Style: 100% Lecture.

Grading: 67% mid exam, 33% final exam. There will be three mid-term examinations and a final examination. The best three scores will be used to determine the course grade.

Exam Format: The examination will have multiple choice and matching questions. Fill-in-the-blank questions may be used, also.

MICB 4111 Microbial Physiology and Diversity

3 credit(s); prereq [2022 or VPB 2022 or Biol 2032 or VPB 2032 or VBS 2032 or 3301 or Biol 3301], [BioC 3021 or Biol 3021 or BioC 4331];

Instructor: Bond, Daniel R

Description: Structural/functional organization of bacteria/archaea. Energy metabolism utilizing light, inorganic/organic chemicals. Cell morphologies, roles/assembly of surface structures. Growth/survival mechanisms in various extreme environments. Adaptation to changing conditions by development of specialized cells/structures, altering metabolic

patterns. Bacterial genetics and molecular techniques to understand sophisticated metabolic cascades in a diversity of bacteria - from the bottom of the ocean, to the human gut, to Antarctica. The course blends the study of well understood processes along with new metabolic pathways not yet found in text books.

MICB 4131 Immunology

3 credit(s); prereq [2022 or VPB 2022 or BIOL 2032 or VPB 2032 or VBS 2032 or 3301 or BIOL 3301], [BIOC 3021 or BIOL 3021 or BIOC 4331];

Instructor: Jemmerson,Ronald R

Description: Molecular, genetic, and cellular bases for humoral and cell-mediated immunity; innate immunity; antigen recognition by B and T lymphocytes; interactions between lymphocytes and other cells of the immune system; cytokines; immunoregulation; key aspects of clinical immunology. Students will learn the basic concepts of immunology with some practical applications. This course is targeted toward undergraduate majors in the biological sciences who have previously been introduced to biology and biochemistry. The material covered in the course will enable those interested to enroll in more advanced courses in this field. See the Course Website for further information.

Style: 90% Lecture, 10% Discussion.

Grading: 67% mid exam, 33% final exam. Quizzes can substitute for one of 3 exams

Exam Format: Multiple choice/matching/short answer

MICB 4161 Eukaryotic Microbiology

A-F only, 3 credit(s); prereq 3301, [GCD 3022 or BIOL 4003];

Instructor: Davis,Dana

Description: Eukaryotic Microbiology covers topics in eukaryotic microbiology that provide insights into the cell biology of higher eukaryotes, animal and plant pathogenesis, and evolution. Model eukaryotic organisms have included: *Saccharomyces cerevisiae*, *Chlamydomonas reinhardtii*, *Plasmodium falciparum*, *Toxoplasma gondii*, *Candida albicans*, and Diatoms! The students are the driving force behind this course and are actively encouraged to participate in discussions, give presentations, and critique the scientific interpretations and conclusions of others.

Style: 25% Lecture, 30% Discussion, 5% Small Group Activities, 25% Student Presentation, 10% Guest Speakers, 5% Web Based.

Grading: 25% mid exam, 25% final exam, 15% reports/papers, 10% written homework, 25% class participation.

Exam Format: Essay

MICB 4215 Advanced Laboratory: Microbial Physiology and Diversity

A-F only, 3 credit(s); prereq 3301 or Biol 2032 or VBS 2032 or intro microbiology course with lab;

Instructor: Armstrong,Sandra K

Description: Advanced laboratory course consisting of the isolation, cultivation and study of a wide variety of bacteria from environmental sources. Experiments to examine certain aspects of bacterial physiology are performed on selected isolates.

MICB 4225 Advanced Laboratory: Microbial Genetics

A-F only, 3 credit(s); prereq BIOL 4003; [BIOL 2002 or BIOL 2003 or BIOL 2004 or 3301] recommended;

Instructor: Nielsen,Kirsten

Description: This course is designed as an introduction to the power of microbial genetics using the baker's yeast *Saccharomyces cerevisiae* as a model organism. Although yeasts have greater genetic complexity than bacteria, they still share many of the technical advantages that permit rapid progress in understanding principles of molecular genetics and most methods do not differ significantly from methods employed with other microorganisms. In this course, students will learn basic genetic principles such as isolation of mutants, meiotic mapping, mitotic recombination, and gene replacement through hands-on experimentation.

Style: 10% Lecture, 10% Discussion, 80% Laboratory.

Grading: 15% mid exam, 20% final exam, 44% reports/papers, 15% in-class presentation, 6% class participation.

MICB 4794W Directed Research: Writing Intensive

S-N only, 1-7 credit(s), max credits 15, 15 completions allowed; prereq instr consent , dept consent ; no more than 7 cr of [4793, 4794, 4993, 4994] may count toward major requirements; Meets CLE req of Writing Intensive;

Instructor: LeBien,Tucker Wayne

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; prereq 3301, dept consent ;

Instructor: Bey,Russell F

Description: Student may contact the instructor or department for information.

MICB 4994 Directed Research

S-N only, 1-7 credit(s), max credits 7, 1 completion allowed; prereq Biol/MicB 3301, instr consent ; 7 cr max of 4993 and/or 4994 may count toward major requirements;

Instructor: Bey,Russell F

Description: Student may contact the instructor or department for information.

Microbiology, Immunology, and Cancer Biology

1460 Mayo (Box 196 UMHC)

MICA 5000 Practicum: Teaching

A-F only, 1 credit(s), max credits 4, 4 completions allowed; prereq [MIMP or MICaB] grad major or instr consent;

Instructor: Jemmerson,Ronald R

Description: Student may contact the instructor or department for information.

MICA 8002 Structure, Function, and Genetics of Bacteria and Viruses

A-F only, 4 credit(s); prereq [One undergrad or grad course each in [microbiology, genetics, biochemistry]] or instr consent ;

Instructor: Dunny,Gary M

Description: Student may contact the instructor or department for information.

MICA 8011 Current Topics in Immunology

A-F only, 3 credit(s); prereq MICA 8003 or instr consent;

Instructor: Hogquist,Kristin Ann

Description: Student may contact the instructor or department for information.

MICA 8012 Integrated Topics in Microbiology, Immunology, and Cancer Biology

A-F only, 2 credit(s); prereq MICa grad student, completion of two of [8002 or 8003 or 8004];

Instructor: Pennell PhD,Christopher Andrew

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; prereq 1st yr MICa grad student;

Instructor: Blazar,Bruce R

Description: Student may contact the instructor or department for information.

MICA 8371 Mucosal Immunobiology

A-F only, 3 credit(s); prereq 8001 or instr consent; Credit will not be granted if credit has been received for: CMB 8371;

Instructor: Herzberg,Mark C

Description: Student may contact the instructor or department for information.

MICA 8910 Seminar: Faculty Research Topics
S-N only, 1 credit(s), max credits 10, 10 completions allowed; prereq [MIMP or MICA] grad student or;
Instructor: Armstrong,Sandra K
Description: Student may contact the instructor or department for information.

MICA 8920 Seminar: Student Research Topics
S-N only, 1 credit(s), max credits 10, 10 completions allowed; prereq [MIMP or MICA] grad student or instr consent;
Instructor: Armstrong,Sandra K
Description: Student may contact the instructor or department for information.

Military Science

110 Armory

MIL 103 MS I Zero Credit Lead Lab
A-F only, 0 credit(s); prereq Concurrent registration is required (or allowed) in 1101;
Instructor: Leonard,Doug Richard
Description: Lab for Army ROTC students. Must be enrolled in MIL 1101 and in the Army ROTC Program to take MIL 103.

MIL 203 MS II Zero Credit Lead Lab
A-F only, 0 credit(s); prereq Concurrent registration is required (or allowed) in 1201;
Instructor: Crawford,Todd Robert
Description: Student may contact the instructor or department for information.

MIL 303 MS III Zero Credit Lead Lab
A-F only, 0 credit(s); prereq Completion of basic courses, Concurrent registration is required (or allowed) in 3301;
Instructor: Boisen,David J
Description: Student may contact the instructor or department for information.

MIL 403 MS IV Zero Credit Lead Lab
A-F only, 0 credit(s); prereq Completion of basic courses, Concurrent registration is required (or allowed) in 3401;
Instructor: Conway,Michael
Description: Student may contact the instructor or department for information.

MIL 1101 Leadership and Personal Development
A-F only, 1 credit(s);
Instructor: Leonard,Doug Richard
Description: Introduction to the Army ROTC Program. Students learn how the U.S. Army is structured, how it operates, and some of the basic Army skills.
Style: 70% Lecture, 10% Film/Video, 20% Discussion.

MIL 1103 MS I One Credit Lead Lab
A-F only, 1 credit(s); prereq Concurrent registration is required (or allowed) in 1101;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

MIL 1201 Innovative Team Leadership
A-F only, 2 credit(s); prereq Concurrent registration is required (or allowed) in lab;
Instructor: Crawford,Todd Robert
Description: Student may contact the instructor or department for information.

MIL 1203 MS II One Credit Lead Lab
A-F only, 1 credit(s); prereq Concurrent registration is required (or allowed) in 1201;
Instructor: STAFF

Description: Student may contact the instructor or department for information.

MIL 3301 Adaptive Tactical Leadership
A-F only, 3 credit(s); prereq Two yrs of ROTC or equiv established by U.S. Army, must see Army ROTC dept officials, Concurrent registration is required (or allowed) in lab;
Instructor: Boisen,David J
Description: Student may contact the instructor or department for information.

MIL 3303 MS III One Credit Lead Lab
A-F only, 1 credit(s); prereq Completion of basic courses, Concurrent registration is required (or allowed) in 3301;
Instructor: Boisen,David J
Description: Student may contact the instructor or department for information.

MIL 3401 Developing Adaptive Leaders
A-F only, 3 credit(s); prereq Completed all other military courses or Army equiv, Concurrent registration is required (or allowed) in lab;
Instructor: Conway,Michael
Description: Student may contact the instructor or department for information.

MIL 3403 MS IV One Credit Lead Lab
A-F only, 1 credit(s); prereq Completion of basic courses, Concurrent registration is required (or allowed) in 3401;
Instructor: Conway,Michael
Description: Student may contact the instructor or department for information.

MIL 3404 Military Science IV Leadership Lab
A-F only, 1 credit(s); prereq Concurrent registration is required (or allowed) in 3402;
Instructor: Conway,Michael
Description: Student may contact the instructor or department for information.

MIL 3501 Marksmanship Training Programs
A-F only, 2 credit(s);
Instructor: Lykens,David A.
Description: Student may contact the instructor or department for information.

MIL 3970 Military History
A-F only, 3 credit(s);
Instructor: Leonard,Doug Richard
Description: Student may contact the instructor or department for information.

Modern Greek

325 Social Sciences

MDGK 1001 Beginning Modern Greek I
4 credit(s);
Instructor: Stavrou,Theofanis G
Description: Student may contact the instructor or department for information.

MDGK 1003 Intermediate Modern Greek I
4 credit(s); prereq 1002 or instr consent;
Instructor: Stavrou,Soterios G
Description: Student may contact the instructor or department for information.

Molecular Cellular Developmental Biol and Genetics

250 Biological Sciences

MCDG 8900 Student Research Seminar

S-N only, 1 credit(s), max credits 10, 10 completions allowed; prereq Grad MCDG or BMBB major dept consent ; Instructor: Conklin,Kathleen F
Description: Student may contact the instructor or department for information.

MCDG 8920 Special Topics

1-4 credit(s), max credits 8, 8 completions allowed; prereq Grad MCDG or BMBB major or dept consent ; Instructor: Titus,Margaret A.
Description: Student may contact the instructor or department for information.

Mortuary Science

A-275 Mayo (Box 740)

MORT 3005 History of Funeral Service

A-F only, 2 credit(s); Instructor: Mathews,Michael Clark
Description: Student may contact the instructor or department for information.

MORT 3012 Organization and Management of Funeral Business

A-F only, 3 credit(s); prereq Mortuary science major; Instructor: Woosley,Angela Lynn
Description: Student may contact the instructor or department for information.

MORT 3014 Funeral Service Rules and Regulations

A-F only, 2 credit(s); prereq Mortuary science major; Instructor: Mathews,Michael Clark
Description: Student may contact the instructor or department for information.

MORT 3018 Funeral Practice

A-F only, 3 credit(s); prereq Mortuary science major; Instructor: Mathews,Michael Clark
Description: A study of the practice of funeral service arrangements and the conduct of funerals, including different types of funeral ceremonies, cemetery types and eligibility, obituary writing and use of computers in funeral service.
Style: 80% Lecture, 15% Discussion.
Grading: 60% mid exam, 20% final exam, 10% special projects, 5% in-class presentation, 5% class participation.
Exam Format: Multiple choice

MORT 3021W Funeral Service Psychology

A-F only, 3 credit(s); prereq Introductory course in general psychology; Meets CLE req of Writing Intensive; Instructor: Obershaw,Richard Josep
Description: Student may contact the instructor or department for information.

MORT 3022W Funeral Service Arrangements

A-F only, 3 credit(s); prereq 3021W; Meets CLE req of Writing Intensive; Instructor: Woosley,Angela Lynn
Description: Student may contact the instructor or department for information.

MORT 3025 Business Law

A-F only, 3 credit(s); Instructor: Meslow,Doug
Description: Student may contact the instructor or department for information.

MORT 3049 Microbiology

A-F only, 2 credit(s); prereq General biology course w/ lab. Students who have already taken a microbiology course are exempt from this course.; Instructor: Mathews,Michael Clark
Description: Student may contact the instructor or department for information.

MORT 3051 Restorative Art

A-F only, 2 credit(s); prereq [3171 or Concurrent registration is required (or allowed) in 3171], Concurrent registration is required (or allowed) in 3061, mortuary science major; Instructor: LaCourt,Jody Lynn
Description: Student may contact the instructor or department for information.

MORT 3061 Embalming Theory

A-F only, 3 credit(s); prereq [3171 or Concurrent registration is required (or allowed) in 3171], Concurrent registration is required (or allowed) in 3051, mortuary science major; Instructor: LaCourt,Jody Lynn
Description: Student may contact the instructor or department for information.

MORT 3065 Embalming Chemistry

A-F only, 3 credit(s); prereq Intro course in general chemistry; Instructor: Mathews,Michael Clark
Description: Student may contact the instructor or department for information.

MORT 3090 Independent Study Project

1-15 credit(s), max credits 30; prereq Mortuary science major; Instructor: LuBrant,Michael P
Description: Student may contact the instructor or department for information.

MORT 3091W Independent Study in Funeral Service

1-4 credit(s), max credits 4, 3 completions allowed; prereq Mortuary science major; Meets CLE req of Writing Intensive; Instructor: LuBrant,Michael P
Description: Student may contact the instructor or department for information.

MORT 3151 Restorative Art Laboratory

S-N only, 1 credit(s); prereq [3171 or Concurrent registration is required (or allowed) in 3171], Concurrent registration is required (or allowed) in 3051, mortuary science major; Instructor: LaCourt,Jody Lynn
Description: Student may contact the instructor or department for information.

MORT 3161 Embalming Laboratory

S-N only, 1 credit(s); prereq [3171 or Concurrent registration is required (or allowed) in 3171], Concurrent registration is required (or allowed) in 3061, mortuary science major; Instructor: LaCourt,Jody Lynn
Description: Student may contact the instructor or department for information.

MORT 3171 Human Anatomy Laboratory

A-F only, 2 credit(s); prereq 3 cr of biology, 3 cr of human anatomy; limited space for non-mortuary science majors; Instructor: McArthur,Angela M
Description: Student may contact the instructor or department for information.

MORT 3370 Death and Dying Across Cultures and Religions

A-F only, 3 credit(s); Instructor: Roach Thomas,Gloria
Description: Student may contact the instructor or department for information.

MORT 3379 Clinical Funeral Service Rotation

S-N only, 3 credit(s), max credits 9, 3 completions allowed; prereq 3021W, 3051, 3061, 3151, 3161, 3171, 3370, mortuary science major;
Instructor: Woosley,Angela Lynn
Description: Student may contact the instructor or department for information.

MORT 3380 Funeral Service Practicum

S-N only, 8 credit(s); prereq Mortuary science major who has completed all other coursework;
Instructor: LuBrant,Michael P
Description: Student may contact the instructor or department for information.

Museum Studies

300 Bell Museum

MST 5011 Museum History and Philosophy

A-F only, 3 credit(s); prereq instr consent;
Instructor: Murdock,Gordon Robert
Description: Student may contact the instructor or department for information.

MST 5020 Internship

S-N only, 1-4 credit(s), max credits 32, 32 completions allowed; prereq 5011, 5012, dept consent;
Instructor: Murdock,Gordon Robert
Description: The student arranges an internship experience which may be paid or unpaid at an established museum (institution which maintains and uses research collections in most cases). The project must involve the student in professional activity under the direct supervision of a museum professional. The project must be approved by the instructor before permission to enroll will be given. Proposal forms and guidelines are available from the instructor. Credit is proportional to the size of the task (hours/week or total hours).
Style: internship experience
Grading: 60% reports/papers, 40% other evaluation. evaluation of work supervisor

MST 8993 Directed Study in Museum Studies

A-F only, 1-4 credit(s), max credits 16, 4 completions allowed; prereq [5012 or concurrent enrollment 5012], instr consent, dept consent;
Instructor: Murdock,Gordon Robert
Description: Student may contact the instructor or department for information.

Music

100 Ferguson Hall

MUS 1001 Fundamentals of Music

3 credit(s); prereq For non-music majors; Meets CLE req of Other Humanities Core;
Instructor: STAFF
Description: An introduction to the musical notation and structure of Western music. This course is intended for non-music majors and will cover the following topics: rhythm, pitch, meter, keyboard, major/minor scales, intervals, chords, and harmony. Course work is participatory and includes singing, playing instruments, clapping and aural perception. Grades are determined from assignments, quizzes, a paper and mid-term and final exams. Class time includes two lectures and one lab per week. The syllabus is on the class web. (Note: this class includes four lab sections: 002, 003, 004, and 005.)
Style: 66% Lecture, 33% Laboratory.
Grading: 10% mid exam, 15% final exam, 10% reports/papers, 20% quizzes, 20% laboratory evaluation, 25% problem solving.
Exam Format: Multiple choice and written answer; written and aural examination

MUS 1013 Rock I: The Historical Origins and Development of Rock Music to 1970

A-F only, 3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core;
Instructor: Lubet,Alex J
Description: Student may contact the instructor or department for information.

MUS 1013 Rock I: The Historical Origins and Development of Rock Music to 1970

A-F only, 3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core;
Instructor: Lipscomb,Scott D.
Description: Student may contact the instructor or department for information.

MUS 1015 Music and Movies: The Use and Representation of Music and Musicians in Film in a Global Context

A-F only, 4 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core;
Instructor: Lubet,Alex J
Description: Student may contact the instructor or department for information.

MUS 1021 Introduction to Music

3 credit(s); Credit will not be granted if credit has been received for: MUS 3021; Meets CLE req of Other Humanities Core;
Instructor: 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 from develops 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 1051 Class Piano for Nonmusic Majors I

2 credit(s); Meets CLE req of Other Humanities Core;
Instructor: STAFF
Description: A beginning course for non-music majors with little or no keyboard background. Emphasis on basic functional skills, such as reading, harmonizing, playing by ear and improvising, along with basic technique, elementary repertoire, and music theory (written). Taught by graduate assistants in an electronic multi-piano lab. Includes lecture, group and individual performance, and some individual instruction. Outside practice is required. Practice rooms may be rented through the School of Music. Text: "Contemporary Class Piano" Enhanced 6th ed. by Elyse Mach. Mus 1051 covers Units 1-2, including intervals up to a fifth, major scales and key signatures, major and minor 5-finger patterns and triads, and accompaniments using I, IV and V7 chords.
Style: 10% Lecture, 90% Laboratory.
Grading: 20% mid exam, 25% final exam, 40% quizzes, 10% class participation, 5% other evaluation. two written projects
Exam Format: Individual keyboard performance (plus some written theory).

MUS 1052 Class Piano for Non Music Majors II

2 credit(s); Meets CLE req of Other Humanities Core;
Instructor: STAFF

Description: Continuation of Mus 1051. Emphasis on basic functional skills, such as reading, harmonizing, playing by ear and improvising, along with basic technique, elementary repertoire, and music theory (written). Taught by graduate assistants in an electronic multi-piano lab. Includes lecture, group and individual performance, and some individual instruction. Outside practice is required. Practice rooms may be rented through the School of Music. Text: Contemporary Class Piano, Enhanced 6th edition, by Elyse Mach. 1052 covers Units 3-5, including major and minor scales; intervals up to an octave; accompaniment styles; ABA form; syncopation; secondary chords; pedalling; other scale forms; harmonizing with i, iv, and V7 in minor; jazz styles; 2-hand accompaniments; and major and minor 7th chords.

Style: 10% Lecture, 90% Laboratory.

Grading: 20% mid exam, 25% final exam, 5% special projects, 40% quizzes, 10% class participation.

Exam Format: Individual keyboard performance (plus some written theory).

Instructor: Skovira, Katherine A

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); prereq 1471 or instr consent;

Instructor: Mendoza-Santiago, Eduardo

Description: Student may contact the instructor or department for information.

MUS 1501 Theory and Analysis of Tonal Music I

A-F only, 2 credit(s); prereq dept consent ;

Instructor: STAFF

Description: The first 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 1501 is intended primarily for music majors and music minors. Non-majors generally enroll in Mus 1001 unless they intend to continue in the theory sequence beyond a single term.

Style: 40% Lecture, 40% Discussion, 20% Laboratory.

MUS 1511 Ear-Training and Sight-Singing I

A-F only, 1 credit(s); prereq dept consent ;

Instructor: Tews, Jacob P

Description: Student may contact the instructor or department for information.

MUS 1511 Ear-Training and Sight-Singing I

A-F only, 1 credit(s); prereq dept consent ;

Instructor: Yates III, Richard George

Description: Student may contact the instructor or department for information.

MUS 1511 Ear-Training and Sight-Singing I

A-F only, 1 credit(s); prereq dept consent ;

Instructor: Park, Joo Mi

Description: Student may contact the instructor or department for information.

MUS 1511 Ear-Training and Sight-Singing I

A-F only, 1 credit(s); prereq dept consent ;

Instructor: Holter, Colin

Description: Student may contact the instructor or department for information.

MUS 1511 Ear-Training and Sight-Singing I

A-F only, 1 credit(s); prereq dept consent ;

Instructor: Thalmann, Florian

Description: Student may contact the instructor or department for information.

MUS 1801W Music, Society, and Cultures

A-F only, 3 credit(s); prereq [Music major or instr consent], permission number; Meets CLE req of International Perspective; meets CLE req of Writing Intensive;

Instructor: STAFF

Description: Student may contact the instructor or department for information.

MUS 1151 Piano: Class Lessons I

A-F only, 2 credit(s); prereq Music major, instr consent;

Instructor: STAFF

Description: 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: "Group Piano for Adults Book I" by Lancaster and Renfrow, 2nd ed. and "Easy Classics to Moderns" by Agay. Mus 1151 covers Units 1-13. 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, 40% quizzes, 10% class participation.

Exam Format: individual keyboard performance

MUS 1155 Keyboard Skills I

A-F only, 2 credit(s); prereq Keyboard major or music major with extensive keyboard background or instr consent ;

Instructor: Veiler, Marina

Description: A functional piano skills course for freshman keyboard majors and other music majors with extensive keyboard background. Emphasis is on reading, transposing, harmonizing, improvising, and playing by ear, along with keyboard theory, technique, and music learning skills. Text: "Harmonization at the Piano" 6th edition, by Frackenpohl. Mus 1155 covers Chapters 1-7 plus vocal score reading from Chapter 14. Advanced non-keyboard majors may, with permission, substitute Mus 1155 for the two-semester class piano sequence, Mus 1151-1152.

Style: 10% Lecture, 90% Laboratory.

Grading: 20% mid exam, 20% final exam, 55% quizzes, 5% class participation.

Exam Format: Individual keyboard performance

MUS 1260 Voice Class

2 credit(s), max credits 4; prereq Basic musicianship for learning and performing simple songs;

Instructor: Ten Brink, Jonathan Marshall

Description: Student may contact the instructor or department for information.

MUS 1260 Voice Class

2 credit(s), max credits 4; prereq Basic musicianship for learning and performing simple songs;

Instructor: Feldkamp, Betsie Claer

Description: Student may contact the instructor or department for information.

MUS 1260 Voice Class

2 credit(s), max credits 4; prereq Basic musicianship for learning and performing simple songs;

MUS 1804 World Music

3 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core;

Instructor: STAFF

Description: If you love music, this is the course for you. The only prerequisite is curiosity. Whether you have musical training or not, music is an integral part of your life. You are not only surrounded by it, but you use it to define who you are and what you value in life. This is a great opportunity for non-music majors to get introduced to music from a world music perspective.

Explore this exciting world and gain a crosscultural understanding of basic musical elements (rhythm, harmony, melody, texture, and timbre). You will be taken on a musical tour around the globe, focusing on a small number of representative cultures. Our goal is to understand how each representative musical case study fits into a larger cultural, social, and political context. What does it mean to be a musician? How do people conceptualize music? How does music relate to a culture's daily life and understanding of the universe? These are some of the questions we will be addressing. This course will broaden your horizons and sharpen your critical thinking. You will also have some hands-on musical experiences (you will not be evaluated on the basis of your musical ability). Using musical case studies from around the world, we will explore differences in aesthetics that stem from different lifestyles and values. The course objectives will be accomplished through lectures, video viewing, lots of listening, some hands-on musical experience, selected readings, and assigned concert attendance.

MUS 1905 Topics: Freshman Seminar: What Music Is: Meaning, Reality, Comm, Embodiment

A-F only, 3 credit(s); prereq freshman;

Instructor: Mazzola PhD, Guerin

Description: This seminar is about the way music comes into our existence?from its symbolic abstraction to the vibrations of our psyche and the physical waves, and how it is communicated among humans from composers to audiences; how it creates poetic, emotional, and physiological meaning; is embodied in musicians' lives; and unfolds abstract formulas into living gestures. The seminar should clarify to freshmen why they want to study music, and why music is about the whole life. This study is not an easy game, but is as serious as your life.

MUS 1908W Topics: Freshman Seminar: Music in Nazi Germany

A-F only, 3 credit(s), max credits 6; prereq Fr; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Writing Intensive;

Instructor: Painter PhD, Karen

Description: Does art sustain those in power or can it be independent and even adversarial? Are artists, musicians, and critics responsible for the effect of what they produce and publish, regardless of their intentions? The relationship of art and politics is contested in every era and under all sorts of regimes. Can those in power use the arts?or the media?to legitimate their rule for better or worse? Can the arts maintain their independence? What role do the listener or amateur musician play in pursuing a political agenda or resisting? The seminar will examine the role of art and art censorship in civic life by focusing on the role of music in one of history's most brutal regimes, which was also among the greatest patrons of music. What did mean for a musician, conductor, or composer to collaborate, and what were the degrees of collaboration and associated guilt and punishment? Did music matter to the built up of support for Nazism or the conformism required by the totalitarian state (even if some aspects of the regime defied this unity)? And finally it asks how should citizens of democratic societies commemorate and judge the choices that artists made in harsher times.

Style: 20% Lecture, 20% Film/Video, 40% Discussion, 20% Student Presentation.

Grading: 65% reports/papers, 20% reflection paper, 15% class participation. Weekly reaction emails are 1-2 paragraphs. The two lowest grades will not count, and you may miss 2 weeks.

MUS 3021 Introduction to Music

3 credit(s); Credit will not be granted if credit has been

received for: MUS 1021; Meets CLE req of Other Humanities Core;

Instructor: 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 from develops 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 3045 The Avant-Garde

A-F only, 3 credit(s);

Instructor: Lubet, Alex J

Description: Student may contact the instructor or department for information.

MUS 3230 Chorus

1-2 credit(s), max credits 16, 8 completions allowed; prereq Choral and/or instrumental music background, audition, instr consent ;

Instructor: Culloton, Matthew Richard

Description: Student may contact the instructor or department for information.

MUS 3230 Chorus

1-2 credit(s), max credits 16, 8 completions allowed; prereq Choral and/or instrumental music background, audition, instr consent ;

Instructor: Ji, Hyun Jung

Description: Student may contact the instructor or department for information.

MUS 3262 English Diction for Singers

A-F only, 1 credit(s); prereq Voice or choral music major, concurrent enrollment in applied voice;

Instructor: Zaro-Mullins, Wendy

Description: Student may contact the instructor or department for information.

MUS 3263 German Diction for Singers

A-F only, 1 credit(s); prereq Voice or choral music major, concurrent enrollment in applied voice;

Instructor: Zawisza, Philip David

Description: Student may contact the instructor or department for information.

MUS 3340 Jazz Ensemble

A-F only, 1 credit(s), max credits 8, 8 completions allowed; prereq Audition, instr consent;

Instructor: Sorenson, Dean Patrick

Description: The University Jazz Ensembles play a wide variety of big band repertoire and perform for many events, both on and off campus. Entrance is limited to instruments that are traditionally a part of the big band: trumpet, trombone, saxophone, piano, guitar, bass, drums, and percussion. Placement is by audition, and registration is not permitted until after an audition has taken place.

Style: Rehearsal/performance

MUS 3340 Jazz Ensemble

A-F only, 1 credit(s), max credits 8, 8 completions allowed;

prereq Audition, instr consent;

Instructor: Wiberg, Christopher R

Description: Student may contact the instructor or department for information.

Instructor: Specht, Jeffrey Frederick

Description: Student may contact the instructor or department for information.

MUS 3350 Jazz Combo

A-F only, 1 credit(s), max credits 8, 8 completions allowed;

prereq Audition, instr consent;

Instructor: STAFF

Description: Jazz combos study a wide range of small group jazz literature. Time is also spent on improvisation and performance practice concepts. Performances are scheduled each semester. Ensembles are open to music majors and non-music majors, and auditions are required. Students are placed according to their ability and experience.

Style: performance/rehearsal

MUS 3440 Chamber Ensemble

A-F only, 1 credit(s), max credits 8, 8 completions allowed;

prereq instr consent;

Instructor: STAFF

Description: Chamber ensembles provide an opportunity for music majors to study and perform chamber music (generally works for three or more instruments) with a faculty coach. There is at least one public performance by each group during the semester. Qualified non-music majors may be permitted to register for chamber music with instructor permission following an audition. For information regarding participation in the School of Music chamber music program, please see:

<http://www.music.umn.edu/enscomp/chamber.php>

Style: 100% Laboratory.

Grading: performances

MUS 3380 Gospel Choir

A-F only, 2 credit(s), max credits 16, 8 completions allowed;

Instructor: Moore, Sanford Lajuan

Description: Student may contact the instructor or department for information.

MUS 3480 Marching Band

A-F only, 2 credit(s), max credits 8, 4 completions allowed;

prereq instr consent ;

Instructor: Diem, Timothy W

Description: One of the most exciting and highly visible organizations on campus, the Minnesota Marching Band provides enthusiastic support to the University's athletics programs, represents the University with pride at home and away, and plays a vital role in the social lives of its members. The band is designed for undergraduate and graduate students representing a wide variety of academic disciplines across campus. Marching Band season officially begins in late August with the training period known as Spat Camp and concludes with the Indoor Concerts in early December. No formal audition is necessary.

Style: rehearsal

Grading: rehearsal preparation and performance

MUS 3400 University and Campus Bands

2 credit(s), max credits 20, 10 completions allowed;

Instructor: Nolan, Shanti Catherine

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: Neal, Alicia M

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: Allen, Eric Matthew

Description: Student may contact the instructor or department for information.

MUS 3490 Athletics Bands

A-F only, 1 credit(s), max credits 16, 16 completions allowed; prereq instr consent ;

Instructor: Diem, Timothy W

Description: A continuation of the course from the Fall Semester. Three Athletic Pep bands, which play for men's hockey and basketball and women's volleyball, basketball and hockey, begin in September. Each band will perform 25 - 30 times throughout the year including regular season and post season events. Auditions are held in early September for formation of the three groups. Year-long participation is required.

MUS 3410 University Wind Bands

A-F only, 1 credit(s), max credits 14, 14 completions allowed; prereq Audition, instr consent;

Instructor: Luckhardt, Jerry M

Description: A music ensemble of select wind and percussion players. The ensemble includes a number of undergraduate and graduate majors from other disciplines. Symphonic band performs 4 to 5 concerts each academic year. Admission is by audition only.

Style: rehearsal

Grading: rehearsal preparation and performance

MUS 3490 Athletics Bands

A-F only, 1 credit(s), max credits 16, 16 completions allowed; prereq instr consent ;

Instructor: Neal, Alicia 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; prereq Audition, instr consent;

Instructor: Kirchhoff, Craig J

Description: A select ensemble comprising the University's finest graduate and undergraduate wind and percussion musicians. Performs 5 to 6 concerts on and off campus each academic year. Admission by audition only.

Style: rehearsal

Grading: rehearsal preparation and performance

MUS 3501 Theory and Analysis of Tonal Music III

A-F only, 2 credit(s); prereq [[1501, 1502, 1511, 1512] with grade of at least C-] or diagnostic test administered by School of Music;

Instructor: Simpson-Litke, Rebecca

Description: Student may contact the instructor or department for information.

MUS 3420 Orchestra

A-F only, 1 credit(s), max credits 8, 8 completions allowed; prereq Audition, instr consent;

Instructor: Smith, Mark Russell

Description: Student may contact the instructor or department for information.

MUS 3508 Review of Tonal Theory

A-F only, 3 credit(s); prereq Theory placement exam;

Instructor: Simpson-Litke, Rebecca

Description: Student may contact the instructor or department for information.

MUS 3430 Campus Orchestra

2 credit(s), max credits 16, 8 completions allowed; prereq Non-music major or unable to register for University Orchestra;

MUS 3509 Review of Tonal Theory IV

A-F only, 2 credit(s); prereq Grad music student or instr consent ;

Instructor: Simpson-Litke, Rebecca

Description: Student may contact the instructor or department for information.

for information.

MUS 3511 Ear-Training and Sight-Singing III

A-F only, 1 credit(s); prereq [[1501, 1511] **with grade of at least C-] or diagnostic test administered by School of Music, [music major or instr consent];**

Instructor: Simpson-Litke,Rebecca

Description: Student may contact the instructor or department for information.

MUS 3518 Review of Ear-Training and Sight-Singing

A-F only, 1 credit(s); prereq Theory Placement Exam;

Instructor: STAFF

Description: A course intended for transfer and graduate music majors who, based on the Placement Exam for Entering Students, require remediation in ear-training and sight-singing. Mus 3518 covers at a fast pace the ear-training content of Mus 1502 (Theory II) and Mus 3501 (Theory III). After Mus 3518, the sequence continues with Mus 3502 (for students who need both theory and ear-training review for the contents of Theory IV) or Mus 3511 (for students who need only ear-training review for the contents of Theory IV).

Style: 40% Discussion, 50% Laboratory. sight-singing auditions

Grading: 20% mid exam, 20% final exam, 10% quizzes, 50% other evaluation. sight-singing auditions

Exam Format: dictation

MUS 3602W History of Western Music II

A-F only, 3 credit(s); prereq 1502, 3601, music major, instr consent; Meets CLE req of Writing Intensive;

Instructor: Harness,Kelley A

Description: Student may contact the instructor or department for information.

MUS 4504 Intensive Theory and Analysis of 20th-Century Music

A-F only, 2 credit(s); prereq [3502, 3512] or instr consent ;

Instructor: Bribitzer-Stull,Matt

Description: Student may contact the instructor or department for information.

MUS 4505 Jazz Theory

A-F only, 3 credit(s); prereq [3501, 3511] with grades of at least C-;

Instructor: Sorenson,Dean Patrick

Description: Jazz Theory explores the music theory concepts that exist within jazz performance, composition, and improvisation. The course is intended for upper division undergraduates or graduate students who have a good background in traditional music theory.

Style: 100% Lecture.

Grading: 15% mid exam, 30% final exam, 13% quizzes, 12% problem solving, 30% other evaluation.

Exam Format: Two other exams, in addition to the final and the midterm

MUS 4514 Ear-Training and Sight-Singing for 20th-Century Music

A-F only, 1 credit(s); prereq Completion of [3502, 3512] with grade of at least C-;

Instructor: Bribitzer-Stull,Matt

Description: Student may contact the instructor or department for information.

MUS 5150 Body Awareness in Activity: The Alexander Technique for Musicians

2 credit(s), max credits 4;

Instructor: McCullough,Brian

Description: The Alexander Technique is a century-old technique used by musicians and others as a means of solving performance problems. Its principles address how the daily habits in the use of the self (such as sitting, standing and walking) affect seemingly disparate problems such as stage fright, muscular-skeletal pain, playing induced injuries, and computer use injuries. For musicians, the interplay of unconscious habits and the body mechanics of daily use of the

self strongly affect tone production and technique. The Alexander Technique provides tools to enhance fundamental coordination. Its application can lead to greater performance ease and a reduction of chronic aches and pains. Class enrollment is limited and the class will include individual,"hands-on"; mini-lessons each week. The texts used are: 'Use of the Self,' by F. M. Alexander; 'Indirect Procedures--A Musician's Guide to the Alexander Technique,' by Pedro de Alcantara; and 'Body Learning' by Michael Gelb. Class discussions will center on assigned readings and each student will be responsible for three short papers on selected portions of the texts. Open to musicians and non-musicians. For more info: www.MN-AlexanderTechnique.com. If class is full, email the instructor at: mccul045@umn.edu for permission to add.

Style: 10% Lecture, 25% Discussion, 25% Laboratory. individual work with students

Grading: 50% class participation, 50% other evaluation. attendance

MUS 5230 Chorus

1-2 credit(s), max credits 16, 8 completions allowed; prereq Choral and/or instrumental music background; audition, instr consent ;

Instructor: Culloton,Matthew Richard

Description: Student may contact the instructor or department for information.

MUS 5230 Chorus

1-2 credit(s), max credits 16, 8 completions allowed; prereq Choral and/or instrumental music background; audition, instr consent ;

Instructor: Ji,Hyun Jung

Description: Student may contact the instructor or department for information.

MUS 5240 University Singers

A-F only, 1 credit(s), max credits 8, 8 completions allowed; prereq Audition, instr consent ;

Instructor: Romey,Kathy Saltzman

Description: Student may contact the instructor or department for information.

MUS 5241 Vocal Literature I

A-F only, 3 credit(s); prereq [12 cr in MusA 1304, grad music student] or instr consent;

Instructor: Zabala,Adriana

Description: Student may contact the instructor or department for information.

MUS 5250 Opera Workshop and Ensemble

A-F only, 2 credit(s), max credits 16, 8 completions allowed; prereq audition, instr consent ;

Instructor: Walsh,David Allan

Description: The Opera Workshop is designed to provide performance-oriented opera and music theatre singers with theoretical and practical instruction in opera stagecraft. The course will combine theatre games and exercises, improvisations, script readings, plus rehearsal of selected opera and music theatre repertoire appropriate to the skill development of the individual student. The 'non-production' nature of this course means that the student has the possibility of exploring and 'trying things out'. This class will be determined on the basis of audition and will be restricted to juniors and seniors in the undergraduate programme.

Style: 20% Discussion. Practical instruction in stagecraft

Grading: 20% in-class presentation, 80% class participation.

Exam Format: There are no formal exams. The in-class participation and the presentation of improvs, script readings and scene studies will be the basis for grading the students accomplishments and progress.

MUS 5271 Diction for Singers I

A-F only, 2 credit(s); prereq 12 cr MusA 1304 or grad music major or instr consent;

Instructor: Kierig,Barbara G

Description: In addition to study of songs, this course will

include exposure to things required in professional work...i.e., pianists auditioning for opera work often must play and coach-sing the German arias, singers exposure to the sung German translations of arias (as in German/Austrian houses), fun exploration into conversations between coach and singer, and singer and audition judges. Exposure to some dialogue as in "Die Zauberflote," "Die Fledermaus," etc., exposure to some of the dialect, especially Viennese, in some songs and in opera..no memorization required.

MUS 5280 Opera Theatre

A-F only, 2 credit(s), max credits 16, 8 completions allowed; prereq audition, instr consent;

Instructor: Walsh,David Allan

Description: The Opera Theatre programme is designed to provide performance-oriented opera and music theatre singers with theoretical and practical instruction in opera stagecraft, as well as genuine operatic performance experience. Two fully-staged productions per school year, with all the relevant staging demands, offer the student performer an opportunity to showcase her/his talent in a public presentation. Opera Theatre classes will be determined on the basis of audition.

Style: 20% Discussion. Direct practical staging instruction

Grading: 100% other evaluation. Staging and musical work

Exam Format: Performances of the opera production each semester

MUS 5340 Jazz Ensemble

A-F only, 1 credit(s), max credits 6, 6 completions allowed; prereq audition, instr consent;

Instructor: Sorenson,Dean Patrick

Description: The University Jazz Ensembles play a wide variety of big band repertoire and perform for many events, both on and off campus. Entrance is limited to instruments that are traditionally a part of the big band: trumpet, trombone, saxophone, piano, guitar, bass, drums, and percussion. Placement is by audition, and registration is not permitted until after an audition has taken place.

Style: Rehearsal/performance

MUS 5340 Jazz Ensemble

A-F only, 1 credit(s), max credits 6, 6 completions allowed; prereq audition, instr consent;

Instructor: Wiberg,Christopher R

Description: Student may contact the instructor or department for information.

MUS 5380 Gospel Choir

A-F only, 1 credit(s), max credits 4, 4 completions allowed;

Instructor: Moore,Sanford Lajuan

Description: 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; prereq audition, instr consent;

Instructor: Luckhardt,Jerry M

Description: A music ensemble of select wind and percussion players. The ensemble includes a number of undergraduate and graduate majors from other disciplines. Symphonic band performs 4 to 5 concerts each academic year. Admission is by audition only.

Style: rehearsal

Grading: rehearsal preparation and performance

MUS 5410 University Wind Bands

A-F only, 1 credit(s), max credits 14, 14 completions allowed; prereq audition, instr consent;

Instructor: Kirchhoff,Craig J

Description: A select ensemble comprising the University's finest graduate and undergraduate wind and percussion musicians. Performs 5 to 6 concerts on and off campus each academic year. Admission by audition only.

Style: rehearsal

Grading: rehearsal preparation and performance

MUS 5420 Orchestra

A-F only, 1 credit(s), max credits 8, 8 completions allowed; prereq audition, instr consent;

Instructor: Smith,Mark Russell

Description: Student may contact the instructor or department for information.

MUS 5430 Contemporary Music Workshop

A-F only, 1 credit(s), max credits 8, 8 completions allowed; prereq instr consent ;

Instructor: Kawai,Noriko

Description: Student may contact the instructor or department for information.

MUS 5440 Chamber Ensemble

A-F only, 1 credit(s), max credits 8, 8 completions allowed; prereq audition, instr consent;

Instructor: STAFF

Description: Chamber ensembles provide an opportunity for music majors to study and perform chamber music (generally works for three or more instruments) with a faculty coach. There is at least one public performance by each group during the semester. Qualified non-music majors may be permitted to register for chamber music with instructor permission following an audition. For information regarding participation in the School of Music chamber music program, please see:

<http://www.music.umn.edu/enscomp/chamber.php>

Grading: performance

MUS 5471 Woodwind Literature and Pedagogy I

A-F only, 3 credit(s); prereq Music major or instr consent ;

Instructor: Anderson,John Edward

Description: Student may contact the instructor or department for information.

MUS 5490 Percussion Ensemble

A-F only, 1 credit(s), max credits 10, 10 completions allowed; prereq instr consent ;

Instructor: Mensah,Sowah

Description: Student may contact the instructor or department for information.

MUS 5490 Percussion Ensemble

A-F only, 1 credit(s), max credits 10, 10 completions allowed; prereq instr consent ;

Instructor: Meza,Fernando A.

Description: Practice and performance of standard and contemporary compositions for percussion instruments in various combinations.

Style: 20% Lecture, 80% Laboratory.

Grading: 40% in-class presentation, 60% laboratory evaluation.

Exam Format: no exams

MUS 5490 Percussion Ensemble

A-F only, 1 credit(s), max credits 10, 10 completions allowed; prereq instr consent ;

Instructor: Rappel,Adam A

Description: Student may contact the instructor or department for information.

MUS 5490 Percussion Ensemble

A-F only, 1 credit(s), max credits 10, 10 completions allowed; prereq instr consent ;

Instructor: Sutrisno,Joko

Description: Student may contact the instructor or department for information.

MUS 5561 Orchestration I

A-F only, 3 credit(s); prereq 3502;

Instructor: Dillon,James

Description: Student may contact the instructor or department for information.

MUS 5571 Schenkerian Analysis for Performers

A-F only, 3 credit(s); prereq 3502;

Instructor: Damschroder, David A

Description: Student may contact the instructor or department for information.

MUS 5611 Resources for Music Research

A-F only, 3 credit(s); prereq 3603;

Instructor: Maloney, Timothy

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; prereq grad music major or instr consent ;

Instructor: Mercer-Taylor, Peter J

Description: Student may contact the instructor or department for information.

MUS 5950 Topics in Music: Suzuki Violin Pedagogy Seminar

2 credit(s), max credits 15, 15 completions allowed;

Instructor: Bjork, Mark P

Description: Student may contact the instructor or department for information.

MUS 5950 Topics in Music: Career Res and Studio Admin

2 credit(s), max credits 15, 15 completions allowed;

Instructor: Ashworth, Thomas Jackson

Description: Student may contact the instructor or department for information.

MUS 5950 Topics in Music: Seminar in Conducting

Performance and Pedagogy

4 credit(s), max credits 15, 15 completions allowed;

Instructor: Mehaffey, Matthew Wayne

Description: Student may contact the instructor or department for information.

MUS 5950 Topics in Music: Music Ethnography: Twin Cities

3 credit(s), max credits 15, 15 completions allowed;

Instructor: Schultz, Anna Christine

Description: Ethnographic fieldwork is a central methodology and rite of passage for ethnomusicology, but like many rituals, it is shrouded by a sense of "you won't understand until you do it." A goal of this course is to begin to unravel the mysteries of fieldwork through readings and discussion, as well as through practical experience with participant-observation, interviewing, fieldnote-writing, recording, transcription, and analysis. A second objective of this course is to explore the role of music in a local music community (TBA) as part of a larger project to document and disseminate knowledge regarding musico-cultural diversity in the Twin Cities. Though our larger fieldwork project is collective, each student will choose an issue to study individually in greater detail, and this narrower topic will guide the series of assignments you will complete for the class.

MUS 5950 Topics in Music: Performance Theory

3 credit(s), max credits 15, 15 completions allowed;

Instructor: Mazzola PhD, Guerin

Description: Student may contact the instructor or department for information.

MUS 5950 Topics in Music: Medieval Lyric Song: Music, Poetry, Instruments

3 credit(s), max credits 15, 15 completions allowed;

Instructor: Ilnitchi Currie, Gabriela

Description: Student may contact the instructor or department for information.

MUS 5950 Topics in Music: Chamber Music Literature

2 credit(s), max credits 15, 15 completions allowed;

Instructor: Kawai, Noriko

Description: Student may contact the instructor or department for information.

MUS 8112 Instrumental Repertoire: Reduction and Realization

A-F only, 2 credit(s); prereq Grad student in

accompanying/conducting;

Instructor: Lovelace, Timothy

Description: Student may contact the instructor or department for information.

MUS 8131 Advanced Keyboard Skills

A-F only, 2 credit(s); prereq Grad student in music or instr consent;

Instructor: Billmeyer, Dean W

Description: Student may contact the instructor or department for information.

MUS 8299 Performance in Choral Conducting

A-F only, 3 credit(s); prereq instr consent;

Instructor: Romey, Kathy Saltzman

Description: Student may contact the instructor or department for information.

MUS 8450 Graduate Seminar in Conducting

A-F only, 3-4 credit(s), max credits 32, 8 completions allowed; prereq Grad student in conducting or instr consent ;

Instructor: Romey, Kathy Saltzman

Description: Student may contact the instructor or department for information.

MUS 8450 Graduate Seminar in Conducting

A-F only, 3-4 credit(s), max credits 32, 8 completions allowed; prereq Grad student in conducting or instr consent ;

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; prereq Grad student in conducting or instr consent ;

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; prereq instr consent;

Instructor: Lubet, Alex J

Description: Student may contact the instructor or department for information.

MUS 8550 Composition

A-F only, 3 credit(s), max credits 12, 4 completions allowed; prereq instr consent;

Instructor: Dillon, James

Description: Student may contact the instructor or department for information.

MUS 8560 Readings in Music Theory

A-F only, 3 credit(s), max credits 12, 4 completions allowed; prereq instr consent ;

Instructor: Bribitzer-Stull, Matt

Description: Student may contact the instructor or department for information.

MUS 8581 Schenkerian Theory and Analysis I

A-F only, 3 credit(s); prereq instr consent;

Instructor: Damschroder, David A

Description: Student may contact the instructor or department for information.

MUS 8640 Seminar in Musicology: Reading Popular Music

A-F only, 3 credit(s), max credits 12, 4 completions allowed; prereq Musicology or theory emphasis or instr consent ;

Instructor: Mercer-Taylor, Peter J

Description: Student may contact the instructor or department for information.

MUS 8644 Seminar: Advanced Research in Historical Musicology
A-F only, 3 credit(s); prereq Undergrad music degree;
Instructor: Ilnitche Currie, Gabriela
Description: Student may contact the instructor or department for information.

Music Applied

100 Ferguson Hall

MUSA 1101 Piano: Elective
A-F only, 2-4 credit(s), max credits 32, 8 completions allowed; prereq dept consent ;
Instructor: STAFF
Description: Individual piano instruction by graduate piano TAs for non-music majors with prior piano study. Weekly 30-minute or 60-minute lessons are arranged individually with the instructor, along with a short jury exam at the end of the semester. Requires permission by the Class Piano Coordinator or a piano TA. Information on applied music fees and how to obtain permission to register may be obtained from the School of Music Office, Room 100 Ferguson Hall, (612) 624-5740, or at http://www.music.umn.edu/students/Piano%20Ap%201101_3101_5101.pdf
Style: individual lessons
Grading: 40% final exam, 60% other evaluation. weekly lesson preparation
Exam Format: individual keyboard performance (jury)

MUSA 1102 Harpsichord: Elective
A-F only, 2-4 credit(s), max credits 32, 8 completions allowed; prereq dept consent ;
Instructor: Billmeyer, Dean W
Description: Student may contact the instructor or department for information.

MUSA 1103 Organ: Elective
A-F only, 2-4 credit(s), max credits 32, 8 completions allowed; prereq dept consent ;
Instructor: Billmeyer, Dean W
Description: Student may contact the instructor or department for information.

MUSA 1104 Voice: Elective
A-F only, 2-4 credit(s), max credits 32, 8 completions allowed; prereq dept consent ;
Instructor: Ten Brink, Jonathan Marshall
Description: Student may contact the instructor or department for information.

MUSA 1104 Voice: Elective
A-F only, 2-4 credit(s), max credits 32, 8 completions allowed; prereq dept consent ;
Instructor: Renbarger, Cory James
Description: Student may contact the instructor or department for information.

MUSA 1104 Voice: Elective
A-F only, 2-4 credit(s), max credits 32, 8 completions allowed; prereq dept consent ;
Instructor: Feldkamp, Betsie Claer
Description: Student may contact the instructor or department for information.

MUSA 1104 Voice: Elective
A-F only, 2-4 credit(s), max credits 32, 8 completions allowed; prereq dept consent ;
Instructor: Skovira, Katherine A
Description: Student may contact the instructor or department for information.

MUSA 1105 Violin: Elective
A-F only, 2-4 credit(s), max credits 32, 8 completions

allowed; prereq Departmental Consent Required;
Instructor: Kim, Young-Nam
Description: Student may contact the instructor or department for information.

MUSA 1105 Violin: Elective
A-F only, 2-4 credit(s), max credits 32, 8 completions allowed; prereq Departmental Consent Required;
Instructor: Bjork, Mark P
Description: Student may contact the instructor or department for information.

MUSA 1105 Violin: Elective
A-F only, 2-4 credit(s), max credits 32, 8 completions allowed; prereq Departmental Consent Required;
Instructor: Petersen, Leif H
Description: Student may contact the instructor or department for information.

MUSA 1105 Violin: Elective
A-F only, 2-4 credit(s), max credits 32, 8 completions allowed; prereq Departmental Consent Required;
Instructor: Liu, Te-Chiang
Description: Student may contact the instructor or department for information.

MUSA 1109 Flute: Elective
A-F only, 2-4 credit(s), max credits 32, 8 completions allowed; prereq dept consent ;
Instructor: Taylor, Rachel Mary
Description: Student may contact the instructor or department for information.

MUSA 1113 Saxophone: Elective
A-F only, 2-4 credit(s), max credits 32, 8 completions allowed; prereq dept consent ;
Instructor: Wright, Scott Wayne
Description: Student may contact the instructor or department for information.

MUSA 1117 Trombone: Elective
A-F only, 2-4 credit(s), max credits 32, 8 completions allowed; prereq dept consent ;
Instructor: Strebendt, Nicholas Arthur
Description: Student may contact the instructor or department for information.

MUSA 1121 Percussion: Elective
A-F only, 2-4 credit(s), max credits 32, 8 completions allowed; prereq dept consent ;
Instructor: Rappel, Adam A
Description: Student may contact the instructor or department for information.

MUSA 1123 Guitar: Elective
A-F only, 2-4 credit(s), max credits 32, 8 completions allowed; prereq dept consent ;
Instructor: Hedegard, Daniel
Description: Student may contact the instructor or department for information.

MUSA 1123 Guitar: Elective
A-F only, 2-4 credit(s), max credits 32, 8 completions allowed; prereq dept consent ;
Instructor: Hodges, Ian Jeffrey
Description: Student may contact the instructor or department for information.

MUSA 1123 Guitar: Elective
A-F only, 2-4 credit(s), max credits 32, 8 completions allowed; prereq dept consent ;
Instructor: Mendoza-Santiago, Eduardo
Description: Student may contact the instructor or department for information.

MUSA 1301 Piano--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Shaw,Paul Magnus

Description: Student may contact the instructor or department for information.

MUSA 1301 Piano--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Artymiw, Lydia

Description: Student may contact the instructor or department for information.

MUSA 1301 Piano--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Braginsky,Alexander

Description: Student may contact the instructor or department for information.

MUSA 1302 Harpsichord--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Billmeyer,Dean W

Description: Student may contact the instructor or department for information.

MUSA 1303 Organ--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Billmeyer,Dean W

Description: Student may contact the instructor or department for information.

MUSA 1304 Voice--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Del Santo,Jean Marie

Description: Student may contact the instructor or department for information.

MUSA 1304 Voice--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Kierig,Barbara G

Description: Student may contact the instructor or department for information.

MUSA 1304 Voice--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Zaro-Mullins,Wendy

Description: Student may contact the instructor or department for information.

MUSA 1304 Voice--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: De Haan,John

Description: Student may contact the instructor or department for information.

MUSA 1304 Voice--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Zawisza,Philip David

Description: Student may contact the instructor or department for information.

MUSA 1304 Voice--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Zabala,Adriana

Description: Student may contact the instructor or department

for information.

MUSA 1305 Violin--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Kim,Young-Nam

Description: Student may contact the instructor or department for information.

MUSA 1305 Violin--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: O'Reilly,Sally P

Description: Student may contact the instructor or department for information.

MUSA 1305 Violin--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Bjork,Mark P

Description: Student may contact the instructor or department for information.

MUSA 1306 Viola--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Konkol,Korey Bernard

Description: Student may contact the instructor or department for information.

MUSA 1306 Viola--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Turner,Thomas

Description: Student may contact the instructor or department for information.

MUSA 1307 Cello--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Remenikova,Tanya

Description: Student may contact the instructor or department for information.

MUSA 1308 Double Bass--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Brown,Christopher Craig

Description: Student may contact the instructor or department for information.

MUSA 1309 Flute-Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Bogorad,Julia A

Description: Student may contact the instructor or department for information.

MUSA 1309 Flute-Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Davis,Immanuel

Description: Student may contact the instructor or department for information.

MUSA 1311 Oboe--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Snow,John D

Description: Student may contact the instructor or department for information.

MUSA 1312 Clarinet--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Meffert-Nelson, Karrin Diane

Description: Student may contact the instructor or department for information.

MUSA 1312 Clarinet--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Hara, Burt T

Description: Student may contact the instructor or department for information.

MUSA 1313 Saxophone--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Wyatt, Angela J.

Description: Student may contact the instructor or department for information.

MUSA 1313 Saxophone--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Rousseau, Eugene E

Description: Student may contact the instructor or department for information.

MUSA 1314 Bassoon--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Miller Jr, John W

Description: Student may contact the instructor or department for information.

MUSA 1314 Bassoon--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Nielubowski, Norbert John

Description: Student may contact the instructor or department for information.

MUSA 1314 Bassoon--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Ullery, Charles G

Description: Student may contact the instructor or department for information.

MUSA 1315 French Horn--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Lemen, Caroline May

Description: Student may contact the instructor or department for information.

MUSA 1315 French Horn--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Gast, Michael C

Description: Student may contact the instructor or department for information.

MUSA 1316 Trumpet--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Baldwin, David B

Description: Student may contact the instructor or department for information.

MUSA 1316 Trumpet--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Bordner, Gary Alan

Description: Student may contact the instructor or department for information.

MUSA 1317 Trombone--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Tranter, John Harrington

Description: Student may contact the instructor or department for information.

MUSA 1317 Trombone--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Ashworth, Thomas Jackson

Description: Student may contact the instructor or department for information.

MUSA 1318 Euphonium--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Tranter, John Harrington

Description: Student may contact the instructor or department for information.

MUSA 1318 Euphonium--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Werden, David Ray

Description: Student may contact the instructor or department for information.

MUSA 1319 Tuba--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Tranter, John Harrington

Description: Student may contact the instructor or department for information.

MUSA 1319 Tuba--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Werden, David Ray

Description: Student may contact the instructor or department for information.

MUSA 1319 Tuba--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Campbell, Steven C

Description: Student may contact the instructor or department for information.

MUSA 1321 Percussion--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Hey, Philip C

Description: Student may contact the instructor or department for information.

MUSA 1321 Percussion--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Meza, Fernando A.

Description: Student may contact the instructor or department for information.

MUSA 1321 Percussion--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Yeager, Steven Michael

Description: Student may contact the instructor or department for information.

MUSA 1321 Percussion--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Kogan, Peter

Description: Student may contact the instructor or department for information.

MUSA 1322 Harp--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Kienzle,Kathy

Description: Student may contact the instructor or department for information.

MUSA 1323 Guitar--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Flegel,James F

Description: Student may contact the instructor or department for information.

MUSA 1401 Piano--Secondary

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Music major, dept consent;

Instructor: STAFF

Description: Individual piano instruction by graduate piano TAs for music majors who have completed Class Piano Mus 1151-1152 or equivalent proficiency. Weekly 30-minute or 60-minute lessons are arranged individually with the instructor, along with a short jury exam at the end of the semester.

Information on applied music fees and how to register may be obtained from the School of Music Office, Room 100 Ferguson Hall, or at

<http://www.music.umn.edu/students/Piano%20Ap%201401%203401%205401.pdf>

Style: individual lessons

Grading: 40% final exam, 60% other evaluation. weekly lesson preparation

Exam Format: individual keyboard performance (jury)

MUSA 1402 Harpsichord--Secondary

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Billmeyer,Dean W

Description: Student may contact the instructor or department for information.

MUSA 1403 Organ--Secondary

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Billmeyer,Dean W

Description: Student may contact the instructor or department for information.

MUSA 1404 Voice--Secondary

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Ten Brink,Jonathan Marshall

Description: Student may contact the instructor or department for information.

MUSA 1404 Voice--Secondary

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Renbarger,Cory James

Description: Student may contact the instructor or department for information.

MUSA 1404 Voice--Secondary

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Feldkamp,Betsie Claer

Description: Student may contact the instructor or department for information.

MUSA 1404 Voice--Secondary

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Skovira,Katherine A

Description: Student may contact the instructor or department for information.

MUSA 1405 Violin--Secondary

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Petersen,Leif H

Description: Student may contact the instructor or department for information.

MUSA 1405 Violin--Secondary

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Liu,Te-Chiang

Description: Student may contact the instructor or department for information.

MUSA 1409 Flute--Secondary

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Taylor,Rachel Mary

Description: Student may contact the instructor or department for information.

MUSA 1413 Saxophone--Secondary

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Wright,Scott Wayne

Description: Student may contact the instructor or department for information.

MUSA 1414 Bassoon--Secondary

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Nielubowski,Norbert John

Description: Student may contact the instructor or department for information.

MUSA 1417 Trombone--Secondary

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Strebendt,Nicholas Arthur

Description: Student may contact the instructor or department for information.

MUSA 1421 Percussion--Secondary

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Rappel,Adam A

Description: Student may contact the instructor or department for information.

MUSA 1423 Guitar--Secondary

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Hedegard,Daniel

Description: Student may contact the instructor or department for information.

MUSA 1423 Guitar--Secondary

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Hodges,Ian Jeffrey

Description: Student may contact the instructor or department for information.

MUSA 1423 Guitar--Secondary

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Mendoza-Santiago,Eduardo

Description: Student may contact the instructor or department for information.

MUSA 1901 Piano--Transfer

A-F only, 2-4 credit(s), max credits 4, 1 completion allowed; prereq Audition, dept consent;

Instructor: Shaw,Paul Magnus

Description: Student may contact the instructor or department for information.

MUSA 1901 Piano--Transfer

A-F only, 2-4 credit(s), max credits 4, 1 completion allowed;
prereq Audition, dept consent;
Instructor: Artymiw, Lydia
Description: Student may contact the instructor or department for information.

MUSA 1901 Piano--Transfer

A-F only, 2-4 credit(s), max credits 4, 1 completion allowed;
prereq Audition, dept consent;
Instructor: Braginsky, Alexander
Description: Student may contact the instructor or department for information.

MUSA 1902 Harpsichord--Transfer

A-F only, 2-4 credit(s), max credits 4, 1 completion allowed;
prereq Audition, dept consent;
Instructor: Billmeyer, Dean W
Description: Student may contact the instructor or department for information.

MUSA 1903 Organ--Transfer

A-F only, 2-4 credit(s), max credits 4, 1 completion allowed;
prereq Audition, dept consent;
Instructor: Billmeyer, Dean W
Description: Student may contact the instructor or department for information.

MUSA 1904 Voice--Transfer

A-F only, 2-4 credit(s), max credits 4, 1 completion allowed;
prereq Audition, dept consent;
Instructor: Del Santo, Jean Marie
Description: Student may contact the instructor or department for information.

MUSA 1904 Voice--Transfer

A-F only, 2-4 credit(s), max credits 4, 1 completion allowed;
prereq Audition, dept consent;
Instructor: Kierig, Barbara G
Description: Student may contact the instructor or department for information.

MUSA 1904 Voice--Transfer

A-F only, 2-4 credit(s), max credits 4, 1 completion allowed;
prereq Audition, dept consent;
Instructor: Zaro-Mullins, Wendy
Description: Student may contact the instructor or department for information.

MUSA 1904 Voice--Transfer

A-F only, 2-4 credit(s), max credits 4, 1 completion allowed;
prereq Audition, dept consent;
Instructor: De Haan, John
Description: Student may contact the instructor or department for information.

MUSA 1904 Voice--Transfer

A-F only, 2-4 credit(s), max credits 4, 1 completion allowed;
prereq Audition, dept consent;
Instructor: Zawisza, Philip David
Description: Student may contact the instructor or department for information.

MUSA 1904 Voice--Transfer

A-F only, 2-4 credit(s), max credits 4, 1 completion allowed;
prereq Audition, dept consent;
Instructor: Zabala, Adriana
Description: Student may contact the instructor or department for information.

MUSA 1905 Violin--Transfer

A-F only, 2-4 credit(s), max credits 4, 1 completion allowed;
prereq Audition, dept consent;
Instructor: Kim, Young-Nam
Description: Student may contact the instructor or department

for information.

MUSA 1905 Violin--Transfer

A-F only, 2-4 credit(s), max credits 4, 1 completion allowed;
prereq Audition, dept consent;
Instructor: O'Reilly, Sally P
Description: Student may contact the instructor or department for information.

MUSA 1905 Violin--Transfer

A-F only, 2-4 credit(s), max credits 4, 1 completion allowed;
prereq Audition, dept consent;
Instructor: Bjork, Mark P
Description: Student may contact the instructor or department for information.

MUSA 1906 Viola--Transfer

A-F only, 2-4 credit(s), max credits 4, 1 completion allowed;
prereq Audition, dept consent;
Instructor: Konkol, Korey Bernard
Description: Student may contact the instructor or department for information.

MUSA 1906 Viola--Transfer

A-F only, 2-4 credit(s), max credits 4, 1 completion allowed;
prereq Audition, dept consent;
Instructor: Turner, Thomas
Description: Student may contact the instructor or department for information.

MUSA 1907 Cello--Transfer

A-F only, 2-4 credit(s), max credits 4, 1 completion allowed;
prereq Audition, dept consent;
Instructor: Remenikova, Tanya
Description: Student may contact the instructor or department for information.

MUSA 1908 Double Bass--Transfer

A-F only, 2-4 credit(s), max credits 4, 1 completion allowed;
prereq Audition, dept consent;
Instructor: Brown, Christopher Craig
Description: Student may contact the instructor or department for information.

MUSA 1909 Flute--Transfer

A-F only, 2-4 credit(s), max credits 4, 1 completion allowed;
prereq Audition, dept consent;
Instructor: Bogorad, Julia A
Description: Student may contact the instructor or department for information.

MUSA 1909 Flute--Transfer

A-F only, 2-4 credit(s), max credits 4, 1 completion allowed;
prereq Audition, dept consent;
Instructor: Davis, Immanuel
Description: Student may contact the instructor or department for information.

MUSA 1911 Oboe--Transfer

A-F only, 2-4 credit(s), max credits 4, 1 completion allowed;
prereq Audition, dept consent;
Instructor: Snow, John D
Description: Student may contact the instructor or department for information.

MUSA 1912 Clarinet--Transfer

A-F only, 2-4 credit(s), max credits 4, 1 completion allowed;
prereq Audition, dept consent;
Instructor: Meffert-Nelson, Karrin Diane
Description: Student may contact the instructor or department for information.

MUSA 1912 Clarinet--Transfer

A-F only, 2-4 credit(s), max credits 4, 1 completion allowed;
prereq Audition, dept consent;

Instructor: Hara,Burt T

Description: Student may contact the instructor or department for information.

MUSA 1913 Saxophone--Transfer

A-F only, 2-4 credit(s), max credits 4, 1 completion allowed; prereq Audition, dept consent;

Instructor: Wyatt,Angela J.

Description: Student may contact the instructor or department for information.

MUSA 1913 Saxophone--Transfer

A-F only, 2-4 credit(s), max credits 4, 1 completion allowed; prereq Audition, dept consent;

Instructor: Rousseau,Eugene E

Description: Student may contact the instructor or department for information.

MUSA 1914 Bassoon--Transfer

A-F only, 2-4 credit(s), max credits 4, 1 completion allowed; prereq Audition, dept consent;

Instructor: Miller Jr,John W

Description: Student may contact the instructor or department for information.

MUSA 1914 Bassoon--Transfer

A-F only, 2-4 credit(s), max credits 4, 1 completion allowed; prereq Audition, dept consent;

Instructor: Nielubowski,Norbert John

Description: Student may contact the instructor or department for information.

MUSA 1914 Bassoon--Transfer

A-F only, 2-4 credit(s), max credits 4, 1 completion allowed; prereq Audition, dept consent;

Instructor: Ullery,Charles G

Description: Student may contact the instructor or department for information.

MUSA 1915 French Horn--Transfer

A-F only, 2-4 credit(s), max credits 4, 1 completion allowed; prereq Audition, dept consent;

Instructor: Lemen,Caroline May

Description: Student may contact the instructor or department for information.

MUSA 1915 French Horn--Transfer

A-F only, 2-4 credit(s), max credits 4, 1 completion allowed; prereq Audition, dept consent;

Instructor: Gast,Michael C

Description: Student may contact the instructor or department for information.

MUSA 1916 Trumpet--Transfer

A-F only, 2-4 credit(s), max credits 4, 1 completion allowed; prereq Audition, dept consent;

Instructor: Baldwin,David B

Description: Student may contact the instructor or department for information.

MUSA 1916 Trumpet--Transfer

A-F only, 2-4 credit(s), max credits 4, 1 completion allowed; prereq Audition, dept consent;

Instructor: Bordner,Gary Alan

Description: Student may contact the instructor or department for information.

MUSA 1917 Trombone--Transfer

A-F only, 2-4 credit(s), max credits 4, 1 completion allowed; prereq Audition, dept consent;

Instructor: Tranter,John Harrington

Description: Student may contact the instructor or department for information.

MUSA 1917 Trombone--Transfer

A-F only, 2-4 credit(s), max credits 4, 1 completion allowed; prereq Audition, dept consent;

Instructor: Ashworth,Thomas D

Description: Student may contact the instructor or department for information.

MUSA 1918 Euphonium--Transfer

A-F only, 2-4 credit(s), max credits 4, 1 completion allowed; prereq Audition, dept consent;

Instructor: Tranter,John Harrington

Description: Student may contact the instructor or department for information.

MUSA 1918 Euphonium--Transfer

A-F only, 2-4 credit(s), max credits 4, 1 completion allowed; prereq Audition, dept consent;

Instructor: Werden,David Ray

Description: Student may contact the instructor or department for information.

MUSA 1919 Tuba--Transfer

A-F only, 2-4 credit(s), max credits 4, 1 completion allowed; prereq Audition, dept consent;

Instructor: Werden,David Ray

Description: Student may contact the instructor or department for information.

MUSA 1919 Tuba--Transfer

A-F only, 2-4 credit(s), max credits 4, 1 completion allowed; prereq Audition, dept consent;

Instructor: Campbell,Steven C

Description: Student may contact the instructor or department for information.

MUSA 1921 Percussion--Transfer

A-F only, 2-4 credit(s), max credits 4, 1 completion allowed; prereq Audition, dept consent;

Instructor: Hey,Philip C

Description: Student may contact the instructor or department for information.

MUSA 1921 Percussion--Transfer

A-F only, 2-4 credit(s), max credits 4, 1 completion allowed; prereq Audition, dept consent;

Instructor: Meza,Fernando A.

Description: Student may contact the instructor or department for information.

MUSA 1922 Harp--Transfer

A-F only, 2-4 credit(s), max credits 4, 1 completion allowed; prereq Audition, dept consent;

Instructor: Kienzle,Kathy

Description: Student may contact the instructor or department for information.

MUSA 1923 Guitar--Transfer

A-F only, 2-4 credit(s), max credits 4, 1 completion allowed; prereq Audition, dept consent;

Instructor: Flegel,James F

Description: Student may contact the instructor or department for information.

MUSA 1923 Guitar--Transfer

A-F only, 2-4 credit(s), max credits 4, 1 completion allowed; prereq Audition, dept consent;

Instructor: Van,Jeffrey Wylie

Description: Student may contact the instructor or department for information.

MUSA 2301 Piano-Performance Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Shaw,Paul Magnus

Description: Student may contact the instructor or department for information.

MUSA 2301 Piano-Performance Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Artymiw, Lydia

Description: Student may contact the instructor or department for information.

MUSA 2301 Piano-Performance Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Braginsky, Alexander

Description: Student may contact the instructor or department for information.

MUSA 2302 Harpsichord-Performance Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, instr consent;

Instructor: Billmeyer, Dean W

Description: Student may contact the instructor or department for information.

MUSA 2303 Organ-Performance Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Billmeyer, Dean W

Description: Student may contact the instructor or department for information.

MUSA 2304 Voice-Performance Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Del Santo, Jean Marie

Description: Student may contact the instructor or department for information.

MUSA 2304 Voice-Performance Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Kierig, Barbara G

Description: Student may contact the instructor or department for information.

MUSA 2304 Voice-Performance Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Zaro-Mullins, Wendy

Description: Student may contact the instructor or department for information.

MUSA 2304 Voice-Performance Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: De Haan, John

Description: Student may contact the instructor or department for information.

MUSA 2304 Voice-Performance Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Zawisza, Philip David

Description: Student may contact the instructor or department for information.

MUSA 2304 Voice-Performance Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Zabala, Adriana

Description: Student may contact the instructor or department for information.

MUSA 2305 Violin-Performance Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Kim, Young-Nam

Description: Student may contact the instructor or department

for information.

MUSA 2305 Violin-Performance Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: O'Reilly, Sally P

Description: Student may contact the instructor or department for information.

MUSA 2305 Violin-Performance Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Bjork, Mark P

Description: Student may contact the instructor or department for information.

MUSA 2306 Viola-Performance Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Konkol, Korey Bernard

Description: Student may contact the instructor or department for information.

MUSA 2306 Viola-Performance Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Turner, Thomas

Description: Student may contact the instructor or department for information.

MUSA 2307 Cello-Performance Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Remenikova, Tanya

Description: Student may contact the instructor or department for information.

MUSA 2308 Double Bass--Performance Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Brown, Christopher Craig

Description: Student may contact the instructor or department for information.

MUSA 2309 Flute-Performance Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Bogorad, Julia A

Description: Student may contact the instructor or department for information.

MUSA 2309 Flute-Performance Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Davis, Immanuel

Description: Student may contact the instructor or department for information.

MUSA 2311 Oboe--Performance Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Snow, John D

Description: Student may contact the instructor or department for information.

MUSA 2312 Clarinet-Performance Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Meffert-Nelson, Karrin Diane

Description: Student may contact the instructor or department for information.

MUSA 2312 Clarinet-Performance Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Hara,Burt T

Description: Student may contact the instructor or department for information.

MUSA 2313 Saxophone-Performance Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Wyatt,Angela J.

Description: Student may contact the instructor or department for information.

MUSA 2313 Saxophone-Performance Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Rousseau,Eugene E

Description: Student may contact the instructor or department for information.

MUSA 2314 Bassoon-Performance Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent ;

Instructor: Miller Jr,John W

Description: Student may contact the instructor or department for information.

MUSA 2314 Bassoon-Performance Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent ;

Instructor: Nielubowski,Norbert John

Description: Student may contact the instructor or department for information.

MUSA 2314 Bassoon-Performance Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent ;

Instructor: Ullery,Charles G

Description: Student may contact the instructor or department for information.

MUSA 2315 French Horn-Performance Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Lemen,Caroline May

Description: Student may contact the instructor or department for information.

MUSA 2315 French Horn-Performance Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Gast,Michael C

Description: Student may contact the instructor or department for information.

MUSA 2316 Trumpet-Performance Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Baldwin,David B

Description: Student may contact the instructor or department for information.

MUSA 2316 Trumpet-Performance Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Bordner,Gary Alan

Description: Student may contact the instructor or department for information.

MUSA 2317 Trombone-Performance Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Tranter,John Harrington

Description: Student may contact the instructor or department for information.

MUSA 2317 Trombone-Performance Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Ashworth,Thomas Jackson

Description: Student may contact the instructor or department for information.

MUSA 2318 Euphonium--Performance Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Tranter,John Harrington

Description: Student may contact the instructor or department for information.

MUSA 2318 Euphonium--Performance Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Werden,David Ray

Description: Student may contact the instructor or department for information.

MUSA 2319 Tuba-Performance Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Werden,David Ray

Description: Student may contact the instructor or department for information.

MUSA 2319 Tuba-Performance Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Campbell,Steven C

Description: Student may contact the instructor or department for information.

MUSA 2321 Percussion--Performance Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Hey,Philip C

Description: Student may contact the instructor or department for information.

MUSA 2321 Percussion--Performance Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Meza,Fernando A.

Description: Student may contact the instructor or department for information.

MUSA 2321 Percussion--Performance Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Yeager,Steven Michael

Description: Student may contact the instructor or department for information.

MUSA 2321 Percussion--Performance Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Kogan,Peter

Description: Student may contact the instructor or department for information.

MUSA 2322 Harp-Performance Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Kienzle,Kathy

Description: Student may contact the instructor or department for information.

MUSA 2323 Guitar-Performance Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Flegel,James F

Description: Student may contact the instructor or department for information.

MUSA 3101 Piano: Elective

A-F only, 2-4 credit(s), max credits 16, 4 completions allowed; prereq dept consent ;

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://www.music.umn.edu/students/Piano%20Ap%201101_3101_5101.pdf

Style: Individual Lessons

Grading: 40% final exam, 60% other evaluation. Weekly lesson preparation

Exam Format: Jury (Individual keyboard performance)

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Braginsky,Alexander

Description: Student may contact the instructor or department for information.

MUSA 3302 Harpsichord--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Billmeyer,Dean W

Description: Student may contact the instructor or department for information.

MUSA 3303 Organ--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Billmeyer,Dean W

Description: Student may contact the instructor or department for information.

MUSA 3104 Voice: Elective

A-F only, 2-4 credit(s), max credits 16, 4 completions allowed; prereq dept consent ;

Instructor: Ten Brink,Jonathan Marshall

Description: Student may contact the instructor or department for information.

MUSA 3304 Voice--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Del Santo,Jean Marie

Description: Student may contact the instructor or department for information.

MUSA 3105 Violin: Elective

A-F only, 2-4 credit(s), max credits 16, 4 completions allowed; prereq dept consent ;

Instructor: Kim,Young-Nam

Description: Student may contact the instructor or department for information.

MUSA 3304 Voice--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Kierig,Barbara G

Description: Student may contact the instructor or department for information.

MUSA 3105 Violin: Elective

A-F only, 2-4 credit(s), max credits 16, 4 completions allowed; prereq dept consent ;

Instructor: Bjork,Mark P

Description: Student may contact the instructor or department for information.

MUSA 3304 Voice--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Zaro-Mullins,Wendy

Description: Student may contact the instructor or department for information.

MUSA 3105 Violin: Elective

A-F only, 2-4 credit(s), max credits 16, 4 completions allowed; prereq dept consent ;

Instructor: Petersen,Leif H

Description: Student may contact the instructor or department for information.

MUSA 3304 Voice--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: De Haan,John

Description: Student may contact the instructor or department for information.

MUSA 3105 Violin: Elective

A-F only, 2-4 credit(s), max credits 16, 4 completions allowed; prereq dept consent ;

Instructor: Liu,Te-Chiang

Description: Student may contact the instructor or department for information.

MUSA 3304 Voice--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Zawisza,Philip David

Description: Student may contact the instructor or department for information.

MUSA 3123 Guitar: Elective

A-F only, 2-4 credit(s), max credits 16, 4 completions allowed; prereq dept consent ;

Instructor: Hedegard,Daniel

Description: Student may contact the instructor or department for information.

MUSA 3304 Voice--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Zabala,Adriana

Description: Student may contact the instructor or department for information.

MUSA 3301 Piano--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Shaw,Paul Magnus

Description: Student may contact the instructor or department for information.

MUSA 3305 Violin--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Kim,Young-Nam

Description: Student may contact the instructor or department for information.

MUSA 3301 Piano--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Artymiw,Lydia

Description: Student may contact the instructor or department for information.

MUSA 3305 Violin--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: O'Reilly,Sally P

Description: Student may contact the instructor or department for information.

MUSA 3301 Piano--Major

MUSA 3305 Violin--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Bjork,Mark P

Description: Student may contact the instructor or department for information.

MUSA 3306 Viola--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Konkol,Korey Bernard

Description: Student may contact the instructor or department for information.

MUSA 3306 Viola--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Turner,Thomas

Description: Student may contact the instructor or department for information.

MUSA 3307 Cello--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Remenikova,Tanya

Description: Student may contact the instructor or department for information.

MUSA 3308 Double Bass--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Brown,Christopher Craig

Description: Student may contact the instructor or department for information.

MUSA 3309 Flute--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Bogorad,Julia A

Description: Student may contact the instructor or department for information.

MUSA 3309 Flute--Major

A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;

Instructor: Davis,Immanuel

Description: Student may contact the instructor or department for information.

MUSA 3311 Oboe--Major

A-F only, 2-4 credit(s), max credits 24, 12 completions allowed; prereq Audition, dept consent;

Instructor: Snow,John D

Description: Student may contact the instructor or department for information.

MUSA 3312 Clarinet--Major

A-F only, 2-4 credit(s), max credits 24, 12 completions allowed; prereq Audition, dept consent;

Instructor: Meffert-Nelson,Karrin Diane

Description: Student may contact the instructor or department for information.

MUSA 3312 Clarinet--Major

A-F only, 2-4 credit(s), max credits 24, 12 completions allowed; prereq Audition, dept consent;

Instructor: Hara,Burt T

Description: Student may contact the instructor or department for information.

MUSA 3313 Saxophone--Major

A-F only, 2-4 credit(s), max credits 24, 12 completions allowed; prereq Audition, dept consent;

Instructor: Wyatt,Angela J.

Description: Student may contact the instructor or department

for information.

MUSA 3313 Saxophone--Major

A-F only, 2-4 credit(s), max credits 24, 12 completions allowed; prereq Audition, dept consent;

Instructor: Rousseau,Eugene E

Description: Student may contact the instructor or department for information.

MUSA 3314 Bassoon--Major

A-F only, 2-4 credit(s), max credits 24, 12 completions allowed; prereq Audition, dept consent;

Instructor: Miller Jr,John W

Description: Student may contact the instructor or department for information.

MUSA 3314 Bassoon--Major

A-F only, 2-4 credit(s), max credits 24, 12 completions allowed; prereq Audition, dept consent;

Instructor: Nielubowski,Norbert John

Description: Student may contact the instructor or department for information.

MUSA 3314 Bassoon--Major

A-F only, 2-4 credit(s), max credits 24, 12 completions allowed; prereq Audition, dept consent;

Instructor: Ullery,Charles G

Description: Student may contact the instructor or department for information.

MUSA 3315 French Horn--Major

A-F only, 2-4 credit(s), max credits 24, 12 completions allowed; prereq Audition, dept consent;

Instructor: Lemen,Caroline May

Description: Student may contact the instructor or department for information.

MUSA 3315 French Horn--Major

A-F only, 2-4 credit(s), max credits 24, 12 completions allowed; prereq Audition, dept consent;

Instructor: Gast,Michael C

Description: Student may contact the instructor or department for information.

MUSA 3316 Trumpet--Major

A-F only, 2-4 credit(s), max credits 24, 12 completions allowed; prereq Audition, dept consent;

Instructor: Baldwin,David B

Description: Student may contact the instructor or department for information.

MUSA 3316 Trumpet--Major

A-F only, 2-4 credit(s), max credits 24, 12 completions allowed; prereq Audition, dept consent;

Instructor: Bordner,Gary Alan

Description: Student may contact the instructor or department for information.

MUSA 3317 Trombone--Major

A-F only, 2-4 credit(s), max credits 24, 12 completions allowed; prereq Audition, dept consent;

Instructor: Tranter,John Harrington

Description: Student may contact the instructor or department for information.

MUSA 3317 Trombone--Major

A-F only, 2-4 credit(s), max credits 24, 12 completions allowed; prereq Audition, dept consent;

Instructor: Ashworth,Thomas Jackson

Description: Student may contact the instructor or department for information.

MUSA 3318 Euphonium--Major

A-F only, 2-4 credit(s), max credits 24, 12 completions allowed; prereq Audition, dept consent;

Instructor: Tranter,John Harrington

Description: Student may contact the instructor or department for information.

MUSA 3318 Euphonium--Major

A-F only, 2-4 credit(s), max credits 24, 12 completions allowed; prereq Audition, dept consent;

Instructor: Werden,David Ray

Description: Student may contact the instructor or department for information.

MUSA 3319 Tuba--Major

A-F only, 2-4 credit(s), max credits 24, 12 completions allowed; prereq Audition, dept consent;

Instructor: Werden,David Ray

Description: Student may contact the instructor or department for information.

MUSA 3319 Tuba--Major

A-F only, 2-4 credit(s), max credits 24, 12 completions allowed; prereq Audition, dept consent;

Instructor: Campbell,Steven C

Description: Student may contact the instructor or department for information.

MUSA 3321 Percussion--Major

A-F only, 2-4 credit(s), max credits 24, 12 completions allowed; prereq Audition, dept consent;

Instructor: Hey,Philip C

Description: Student may contact the instructor or department for information.

MUSA 3321 Percussion--Major

A-F only, 2-4 credit(s), max credits 24, 12 completions allowed; prereq Audition, dept consent;

Instructor: Meza,Fernando A.

Description: Student may contact the instructor or department for information.

MUSA 3321 Percussion--Major

A-F only, 2-4 credit(s), max credits 24, 12 completions allowed; prereq Audition, dept consent;

Instructor: Yeager,Steven Michael

Description: Student may contact the instructor or department for information.

MUSA 3321 Percussion--Major

A-F only, 2-4 credit(s), max credits 24, 12 completions allowed; prereq Audition, dept consent;

Instructor: Kogan,Peter

Description: Student may contact the instructor or department for information.

MUSA 3322 Harp--Major

A-F only, 2-4 credit(s), max credits 24, 12 completions allowed; prereq Audition, dept consent;

Instructor: Kienzle,Kathy

Description: Student may contact the instructor or department for information.

MUSA 3323 Guitar--Major

A-F only, 2-4 credit(s), max credits 24, 12 completions allowed; prereq Audition, dept consent;

Instructor: Flegel,James F

Description: Student may contact the instructor or department for information.

MUSA 3323 Guitar--Major

A-F only, 2-4 credit(s), max credits 24, 12 completions allowed; prereq Audition, dept consent;

Instructor: Van,Jeffrey Wylie

Description: Student may contact the instructor or department for information.

MUSA 5401 Piano--Secondary

A-F only, 2-4 credit(s), max credits 24, 12 completions allowed; prereq Audition, dept consent;

Instructor: STAFF

Description: Individual piano instruction for graduate music majors who are not piano performance majors. Weekly 30-minute or 60-minute lessons are arranged individually with the instructor, along with a short jury exam at the end of the semester. Information on applied music fees and how to register may be obtained from the School of Music Office, Room 100 Ferguson Hall, or at <http://www.music.umn.edu/students/Piano%20Ap%201401%203401%205401>

Style: Individual lessons

Grading: 40% final exam, 60% other evaluation. Weekly lesson preparation

Exam Format: (Jury) Individual keyboard performance

MUSA 5403 Organ--Secondary

A-F only, 2-4 credit(s), max credits 24, 12 completions allowed; prereq Audition, dept consent;

Instructor: Billmeyer,Dean W

Description: Student may contact the instructor or department for information.

MUSA 5405 Violin--Secondary

A-F only, 2-4 credit(s), max credits 24, 12 completions allowed; prereq Audition, dept consent;

Instructor: Bjork,Mark P

Description: Student may contact the instructor or department for information.

MUSA 5414 Bassoon--Secondary

A-F only, 2-4 credit(s), max credits 24, 12 completions allowed; prereq Audition, dept consent;

Instructor: Nielubowski,Norbert John

Description: Student may contact the instructor or department for information.

MUSA 8301 Piano--Major

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: Shaw,Paul Magnus

Description: Student may contact the instructor or department for information.

MUSA 8301 Piano--Major

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: Artymiw,Lydia

Description: Student may contact the instructor or department for information.

MUSA 8301 Piano--Major

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: Braginsky,Alexander

Description: Student may contact the instructor or department for information.

MUSA 8303 Organ--Major

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: Billmeyer,Dean W

Description: Student may contact the instructor or department for information.

MUSA 8304 Voice--Major

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: Del Santo,Jean Marie

Description: Student may contact the instructor or department for information.

MUSA 8304 Voice--Major

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: Kierig, Barbara G

Description: Student may contact the instructor or department for information.

MUSA 8304 Voice--Major

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: Zaro-Mullins, Wendy

Description: Student may contact the instructor or department for information.

MUSA 8304 Voice--Major

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: De Haan, John

Description: Student may contact the instructor or department for information.

MUSA 8304 Voice--Major

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: Zawisza, Philip David

Description: Student may contact the instructor or department for information.

MUSA 8304 Voice--Major

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: Zabala, Adriana

Description: Student may contact the instructor or department for information.

MUSA 8305 Violin--Major

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: Kim, Young-Nam

Description: Student may contact the instructor or department for information.

MUSA 8305 Violin--Major

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: O'Reilly, Sally P

Description: Student may contact the instructor or department for information.

MUSA 8305 Violin--Major

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: Bjork, Mark P

Description: Student may contact the instructor or department for information.

MUSA 8306 Viola--Major

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: Konkol, Corey Bernard

Description: Student may contact the instructor or department for information.

MUSA 8306 Viola--Major

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: Turner, Thomas

Description: Student may contact the instructor or department for information.

MUSA 8307 Cello--Major

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: Remenikova, Tanya

Description: Student may contact the instructor or department for information.

MUSA 8308 Double Bass--Major

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: Brown, Christopher Craig

Description: Student may contact the instructor or department for information.

MUSA 8309 Flute--Major

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: Bogorad, Julia A

Description: Student may contact the instructor or department for information.

MUSA 8309 Flute--Major

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: Davis, Immanuel

Description: Student may contact the instructor or department for information.

MUSA 8311 Oboe--Major

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: Snow, John D

Description: Student may contact the instructor or department for information.

MUSA 8312 Clarinet--Major

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: Anderson, John Edward

Description: Student may contact the instructor or department for information.

MUSA 8312 Clarinet--Major

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: Meffert-Nelson, Karrin Diane

Description: Student may contact the instructor or department for information.

MUSA 8312 Clarinet--Major

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: Hara, Burt T

Description: Student may contact the instructor or department for information.

MUSA 8313 Saxophone--Major

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: Wyatt, Angela J.

Description: Student may contact the instructor or department for information.

MUSA 8313 Saxophone--Major

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: Rousseau, Eugene E

Description: Student may contact the instructor or department for information.

MUSA 8314 Bassoon--Major

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: Miller Jr, John W

Description: Student may contact the instructor or department for information.

MUSA 8314 Bassoon--Major

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: Nielubowski, Norbert John

Description: Student may contact the instructor or department for information.

MUSA 8314 Bassoon--Major

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: Ullery, Charles G

Description: Student may contact the instructor or department for information.

MUSA 8315 French Horn--Major

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: Lemen, Caroline May

Description: Student may contact the instructor or department for information.

MUSA 8315 French Horn--Major

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: Gast, Michael C

Description: Student may contact the instructor or department for information.

MUSA 8316 Trumpet--Major

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: Baldwin, David B

Description: Student may contact the instructor or department for information.

MUSA 8316 Trumpet--Major

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: Bordner, Gary Alan

Description: Student may contact the instructor or department for information.

MUSA 8317 Trombone--Major

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: Tranter, John Harrington

Description: Student may contact the instructor or department for information.

MUSA 8317 Trombone--Major

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: Ashworth, Thomas Jackson

Description: Student may contact the instructor or department for information.

MUSA 8318 Euphonium--Major

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: Tranter, John Harrington

Description: Student may contact the instructor or department for information.

MUSA 8318 Euphonium--Major

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: Werden, David Ray

Description: Student may contact the instructor or department for information.

MUSA 8319 Tuba--Major

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: Werden, David Ray

Description: Student may contact the instructor or department for information.

MUSA 8319 Tuba--Major

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: Campbell, Steven C

Description: Student may contact the instructor or department

for information.

MUSA 8321 Percussion--Major

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: Hey, Philip C

Description: Student may contact the instructor or department for information.

MUSA 8321 Percussion--Major

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: Meza, Fernando A.

Description: Student may contact the instructor or department for information.

MUSA 8321 Percussion--Major

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: Yeager, Steven Michael

Description: Student may contact the instructor or department for information.

MUSA 8321 Percussion--Major

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: Kogan, Peter

Description: Student may contact the instructor or department for information.

MUSA 8322 Harp--Major

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: Kienzle, Kathy

Description: Student may contact the instructor or department for information.

MUSA 8323 Guitar--Major

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: Flegel, James F

Description: Student may contact the instructor or department for information.

MUSA 8323 Guitar--Major

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: Van, Jeffrey Wylie

Description: Student may contact the instructor or department for information.

MUSA 8324 Accompanying/Coaching

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: Lovelace, Timothy

Description: Student may contact the instructor or department for information.

MUSA 8324 Accompanying/Coaching

A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;

Instructor: Kawai, Noriko

Description: Student may contact the instructor or department for information.

Music Education

100 Ferguson Hall

MUED 1201 Introduction to Music Teaching and Learning

A-F only, 1 credit(s);

Instructor: Snead, Todd

Description: Student may contact the instructor or department

for information.

MUED 1801 Introduction to Music Therapy

A-F only, 2 credit(s);

Instructor: Vaye, Kimberlee Marie

Description: Student may contact the instructor or department for information.

MUED 3302 General Music II

A-F only, 3 credit(s); prereq 3301 with a grade of at least C-;

Instructor: Addo PhD, Akosua O

Description: Student may contact the instructor or department for information.

MUED 3415 Choral Conducting and Methods I

A-F only, 4 credit(s); prereq MUS 3502, MUS 3512, [music education major or music therapy major or instr consent], successful completion of soph proficiency exam;

Instructor: Hamann, Keitha Lucas

Description: Student may contact the instructor or department for information.

MUED 3504 Brass Techniques and Teaching

A-F only, 2 credit(s), max credits 3, 1 completion allowed; prereq Music ed or music therapy major or instr consent;

Instructor: Budde, Paul J

Description: Student may contact the instructor or department for information.

MUED 3505 Percussion Techniques and Teaching

A-F only, 2 credit(s), max credits 3, 1 completion allowed; prereq Music ed or music therapy major or instr consent;

Instructor: Zarco, John

Description: Student may contact the instructor or department for information.

MUED 3516 Instrumental Methods and Conducting I

A-F only, 4 credit(s); prereq MUS 3502, MUS 3512, music education major, successful completion of soph proficiency exam, dept consent ;

Instructor: Snead, Todd

Description: Student may contact the instructor or department for information.

MUED 3518 Instrumental Methods and Conducting II

A-F only, 3 credit(s); prereq [1201, 3502, 3503, 3504, 3505, 3516, 3517, Mus 3401] with at least C-;

Instructor: Snead, Todd

Description: Student may contact the instructor or department for information.

MUED 3802 Guitar I for Music Education and Music Therapy

Majors: Developing Group Songleading Skills

A-F only, 2 credit(s); prereq [Music therapy or music education major], dept consent ;

Instructor: Schwartzberg, Edward Todd

Description: Student may contact the instructor or department for information.

MUED 5011 Music in the Elementary Classroom Curriculum

2-3 credit(s), max credits 3, 1 completion allowed; prereq Elem Ed major or dept consent ;

Instructor: STAFF

Description: This course is designed to prepare pre-service teachers with materials and strategies to plan and integrate multi-cultural music instruction for elementary school children. Students will need a tuning fork = A, soprano recorder with Baroque-English fingering and one blank VHS videotape. Students will sing, play instruments, sight read and conduct.

Style: 20% Lecture, 40% Discussion, 40% Laboratory.

Grading: 5% final exam, 20% quizzes, 40% in-class presentation, 15% class participation, 20% problem solving.

Exam Format: Essay

MUED 5350 Student Teaching in Classroom Music

A-F only, 4-8 credit(s), max credits 8, 1 completion allowed; prereq Music ed major, instr consent ;

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; prereq Music ed major, instr consent Credit will not be granted if the student has already completed MuEd 3450;

Instructor: Hamann, Keitha Lucas

Description: Student may contact the instructor or department for information.

MUED 5550 Student Teaching in Instrumental Music

A-F only, 4-8 credit(s), max credits 8, 1 completion allowed; prereq Music ed major, instr consent Credit will not be granted if the student has already completed MuEd 3550;

Instructor: Snead, Todd

Description: Student may contact the instructor or department for information.

MUED 5650 Student Teaching Seminar

A-F only, 2 credit(s); prereq At least C- in all required [music, music education, professional education] courses Credit will not be granted if the student has already completed MuEd 3650;

Instructor: Addo PhD, Akosua O

Description: Student may contact the instructor or department for information.

MUED 5669 Psychology of Music

A-F only, 3 credit(s); prereq Psy 1001 or Psy 3604 or instr consent;

Instructor: Lipscomb, Scott D.

Description: Student may contact the instructor or department for information.

MUED 5803 Therapeutic Management in Music Settings

A-F only, 4 credit(s); prereq [5804, 5805] or instr consent ;

Instructor: Silverman, Michael J

Description: Student may contact the instructor or department for information.

MUED 5804 Music Therapy Methods and Procedures I

A-F only, 4 credit(s); prereq 5800 or instr consent Credit will not be granted if the student has already completed MuEd 3804;

Instructor: Schwartzberg, Edward Todd

Description: Student may contact the instructor or department for information.

MUED 5807 Psychiatric Music Therapy

A-F only, 3-4 credit(s), max credits 4, 1 completion allowed; prereq Grad music therapy student or instr consent ;

Instructor: Silverman, Michael J

Description: Student may contact the instructor or department for information.

MUED 5855 Music Therapy Internship

S-N only, 0-13 credit(s), max credits 13, 1 completion allowed; prereq Music therapy major, instr consent Credit will not be granted if the student has already completed MuEd 3855;

Instructor: Silverman, Michael J

Description: Student may contact the instructor or department for information.

MUED 8115 Assessment in Arts Education

A-F only, 3 credit(s); prereq Grad student in [music or music education], dept consent ;

Instructor: Hamann, Keitha Lucas

Description: Student may contact the instructor or department for information.

MUED 8280 Seminar: Current Trends in Music Education
A-F only, 3 credit(s), max credits 30, 10 completions allowed; prereq dept consent ;
Instructor: 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; prereq dept consent ;
Instructor: Lipscomb,Scott D.
Description: Student may contact the instructor or department for information.

Nanoparticle Science and Engineering

125 Mechanical Engineering

NPSE 8101 Nanoparticle Science and Engineering Seminar
S-N only, 1 credit(s); prereq IT grad student or;
Instructor: Oh,Sang-Hyun
Description: Student may contact the instructor or department for information.

Naval Science

203 Armory

NAV 1000 Professional Training in Naval Science
S-N only, 1 credit(s); prereq enrolled in NROTC;
Instructor: Fitzsimmons,Cameron Ann
Description: Student may contact the instructor or department for information.

NAV 1101 Introduction to Naval Science
A-F only, 3 credit(s);
Instructor: Hudgins,Gralon
Description: Student may contact the instructor or department for information.

NAV 2000 Professional Training in Naval Science
S-N only, 1 credit(s); prereq Soph enrolled in NROTC;
Instructor: Fitzsimmons,Cameron Ann
Description: Student may contact the instructor or department for information.

NAV 2201 Ship Systems I: Naval Engineering
A-F only, 3 credit(s);
Instructor: Essler,Joshua David
Description: Student may contact the instructor or department for information.

NAV 3000 Professional Training in Naval Science
S-N only, 1 credit(s); prereq Jr enrolled in NROTC;
Instructor: Fitzsimmons,Cameron Ann
Description: Student may contact the instructor or department for information.

NAV 3302 Navigation II: Seamanship and Ship Operations
A-F only, 3 credit(s); prereq 3301;
Instructor: Schaefer,Crystal Lynn
Description: Student may contact the instructor or department for information.

NAV 3310 Evolution of Warfare
A-F only, 3 credit(s);
Instructor: Fitzsimmons,Cameron Ann
Description: Student may contact the instructor or department for information.

NAV 4000 Professional Training in Naval Science
S-N only, 1 credit(s); prereq Sr enrolled in NROTC;
Instructor: Fitzsimmons,Cameron Ann
Description: Student may contact the instructor or department for information.

NAV 4401W Leadership and Management I
A-F only, 3 credit(s); Meets CLE req of Writing Intensive;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

Neuroscience

6-145 Jackson Hall

NSC 5031W Perception
3 credit(s); prereq Psy 3031 or Psy 3051 or instr consent;
Credit will not be granted if credit has been received for: PSY 5031W; Meets CLE req of Writing Intensive;
Instructor: Legge,Gordon Ernest
Description: Student may contact the instructor or department for information.

NSC 5201 Computational Neuroscience I: Membranes and Channels
3 credit(s); prereq calculus through differential equations;
Credit will not be granted if credit has been received for: PHSL 5201;
Instructor: Miller,Robert F
Description: Student may contact the instructor or department for information.

NSC 5461 Cellular and Molecular Neuroscience
A-F only, 4 credit(s); prereq NSc grad student or instr consent;
Instructor: Newman,Eric A
Description: Goals of the course: 1) To understand the principles of cellular and molecular neuroscience that underlie the function of cells in the nervous system. 2) To study key molecules in the nervous system and learn how they determine cellular properties. 3) To understand the basic principles of neurophysiology and cell biology that underlie cell signaling and communication in the nervous system. 4) To learn about molecular, genetic, cellular, and electrophysiological approaches to studying the nervous system in health and disease. 5) To learn how to read the primary literature critically and to give effective oral presentations. 6) To learn how to write a concise review of a scientific topic based on primary journal articles.
Style: 65% Lecture, 35% Discussion.
Grading: 10% reports/papers, 35% class participation, 55% other evaluation. 4 experiments
Exam Format: Essay

NSC 5561 Systems Neuroscience
A-F only, 4 credit(s); prereq NSc grad student or instr consent;
Instructor: Honda,Christopher N
Description: This is an advanced lecture and laboratory course on the principles of organization of neural systems designed for graduate students or advanced undergraduate students in neuroscience or related fields. The objective of this course is to provide a contemporary understanding of neural systems forming the basis for sensation and movement, as well as sensory-motor and neural-endocrine integration. The course is a team-taught comprehensive survey of sensory, motor, autonomic, limbic, and neuroendocrine systems. A combination of lecture and laboratory instruction will stress the relationships between structure and function in the nervous system.
Style: 50% Lecture, 50% Laboratory. 5 hours of discussion of research literature.
Grading: 35% laboratory evaluation, 65% other evaluation. lecture information
Exam Format: multiple choice, essay, laboratory practical

NSC 5667 Neurobiology in Disease

2-3 credit(s), max credits 3, 1 completion allowed; prereq instr consent ; Credit will not be granted if credit has been received for: NSU 5667;

Instructor: Low,Walter Cheney

Description: Basic clinical/pathological features, pathogenic mechanisms.

Instructor: Stephens,David William

Description: Student may contact the instructor or department for information.

NSC 8207 Seminar: Psychopharmacology

1-3 credit(s), max credits 12, 12 completions allowed; prereq instr consent; Credit will not be granted if credit has been received for: PHCL 8207;

Instructor: Wilcox,George L

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: Honda,Christopher N

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 8216 Selected Topics in Autonomic and Neuroendocrine Regulation

S-N only, 1 credit(s); prereq instr consent; Credit will not be granted if credit has been received for: PHSL 8216;

Instructor: Engeland,William C

Description: Student may contact the instructor or department for information.

NSC 8321 Career Skills and Understanding Responsibilities as a Neuroscientist

S-N only, 0.5 credit(s), max credits 2, 4 completions allowed; prereq Neuroscience grad major or instr consent;

Instructor: Engeland,William C

Description: Student may contact the instructor or department for information.

NSC 8217 Systems and Computational Neuroscience

S-N only, 2 credit(s); prereq 5561 or instr consent;

Instructor: Ghose,Geoffrey M

Description: The course will be in journal club format, in which participants present and discuss recent original research papers. All interested students, faculty members, and postdocs are encouraged to attend. The course typically attracts participants from a variety of departments and perspectives. Students enrolled in the course will be expected to lead the discussion of 1 or 2 papers each session. The course meets from 1:00-2:30 in Jackson 6-137 every Tuesday.

NSC 8481 Advanced Neuropharmaceutics

A-F only, 4 credit(s); prereq instr consent ; Credit will not be granted if credit has been received for: CMB 8481;

Instructor: Fairbanks,Carolyn Ann

Description: Student may contact the instructor or department for information.

NSC 8222 Central Regulation of Autonomic Function

A-F only, 3 credit(s); prereq 5561; Credit will not be granted if credit has been received for: PHSL 8222;

Instructor: Engeland,William C

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: Ebner,Timothy John

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: Branton,W Dale

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: Pardo,Jose Victor

Description: Student may contact the instructor or department for information.

NSC 8320 Readings in Neurobiology

1-4 credit(s), max credits 4, 4 completions allowed;

Neuroscience Department 6-145 Jackson Hall

NSCI 3101 Introduction to Neuroscience I: From Molecules to Madness

A-F only, 3 credit(s); prereq BioC 3021 or concurrent enrollment BioC 3021 or BioC 4331 or concurrent enrollment BioC 4331 recommended; Credit will not be granted if credit has been received for: BIOL 3101;

Instructor: Mermelstein,Paul G

Description: This course serves as an introduction to the basic principles of cellular and molecular neurobiology and nervous systems. The main topics include: Organization of simple networks, neural systems and behavior; how the brain develops and the physiology and communication of neurons and glia; the molecular and genetic basis of cell organization; ion channel structure and function; the molecular basis of synaptic receptors; transduction mechanisms and second messengers; intracellular regulation of calcium; neurotransmitter systems, including excitation and inhibition, neuromodulation, system regulation and the cellular basis of learning, memory and cognition. The course is intended for students majoring in neuroscience but is open to all students with the required prerequisites. The course consists of three hours of lecture per week and approximately six hours of preparation and study per week for students.

Style: 100% Lecture.

Grading: 30% final exam, 10% quizzes, 60% other evaluation. three exams (20% each)

Exam Format: multiple choice

NSCI 4100 Development of the Nervous System: Cellular and Molecular Mechanisms

A-F only, 3 credit(s); prereq 3101;

Instructor: McLoon,Steven

Description: Student may contact the instructor or department for information.

NSCI 4105 Neurobiology Laboratory I

A-F only, 3 credit(s); prereq [3101 or Biol 3101 or Phsl 3101], [3102W or Biol 3102W], instr consent credit will not be granted if credit received for: 3105, Biol 3105, Biol 4105, Phsl 3105; Credit will not be granted if credit has been

received for: BIOL 4105;

Instructor: Branton,W Dale

Description: This course serves as an introduction to the principles, methods, and laboratory exercises for investigating neural mechanisms and examining experimental evidence. This course constitutes a part of the core curriculum for Neuroscience majors and is designed to supplement and reinforce the objectives of NSc 3101 by emphasizing experimental approaches to understanding the brain. The course will provide an introduction to the development and structure of the vertebrate brain and the various experimental techniques available for this study. Topics include: Comparative gross and cell anatomy of invertebrate and vertebrate nervous systems; gross dissection of fish and mammalian brains; use of experimental histochemistry and fluorescent tracers to study brain circuitry, neurons and synaptic connections in the rat brain; small animal surgery and microdissection; use of fluorescent, confocal and dissecting microscopes; use of stereotaxic brain atlas. Students can expect 4 hours of laboratory and 2 hours for preparation and analysis per week. The main theme of the course is to learn by observation. The specific observations you make will be mostly self-directed and guided by a written assignment each week. There will be only a limited number of specific exercises with detailed instructions, the rest will depend on your initiative.

Style: 5% Lecture, 95% Laboratory.

Grading: 50% reports/papers, 20% class participation, 30% other evaluation. final oral presentation of laboratory project

NSCI 4105 Neurobiology Laboratory I

A-F only, 3 credit(s); prereq [3101 or Biol 3101 or Phsl 3101], [3102W or Biol 3102W], instr consent credit will not be granted if credit received for: 3105, Biol 3105, Biol 4105, Phsl 3105; Credit will not be granted if credit has been received for: BIOL 4105;

Instructor: Dubinsky,Janet M

Description: This course serves as an introduction to the principles, methods, and laboratory exercises for investigating neural mechanisms and examining experimental evidence. This course constitutes a part of the core curriculum for Neuroscience majors and is designed to supplement and reinforce the objectives of NSc 3101 and 3102 by emphasizing experimental approaches to understanding the brain. The course will provide an introduction to the development and structure of the vertebrate brain and the various experimental techniques available for this study. Topics include: Comparative gross and cell anatomy of invertebrate and vertebrate nervous systems; gross dissection of fish and mammalian brains; use of experimental histochemistry and fluorescent tracers to study brain circuitry, neurons and synaptic connections in the rat brain; small animal surgery and microdissection; use of fluorescent, confocal and dissecting microscopes; use of stereotaxic brain atlas. The class will discuss, develop and practice teamwork and problem solving skills. Students can expect 4 hours of laboratory and 2 hours for preparation and analysis per week. The main theme of the course is to learn by observation. The specific observations you make will be mostly self-directed and guided by short and long term class projects. There will be only a limited number of specific exercises with detailed instructions, the rest will depend on your initiative.

Style: 5% Lecture, 85% Laboratory, 10% Student Presentation.

NSCI 4167 Neuroscience in the Community

A-F only, 1-3 credit(s); prereq instr consent;

Instructor: Dubinsky,Janet M

Description: Students will be responsible for developing an experiment or inquiry-based activity to illustrate a basic neuroscience concept for a middle school science classroom. Students will be paired with a middle school science teacher who has become familiar with neuroscience through the BrainU program offered through the Department of Neuroscience. Over the course of the semester students will observe and assist in the middle school classroom in the implementation of already developed neuroscience activities. Students will choose a basic concept in an area of neuroscience in which they will develop an expertise and make an oral presentation. Students will then

design and implement a new classroom activity to teach concepts in that area of neuroscience to middle school learners. By partnering with a middle school teacher and assisting in his/her classroom, the student participates in a service learning experience. Credit hours are proportional to the number of hours spent in the middle school classroom, 1 credit for every 50 hr. Weekly meetings with the instructor, journaling, and readings are required for all credit levels.

Style: Field work in service learning

Grading: 30% in-class presentation, 30% other evaluation. classroom activities and interactions; 25% teach evaluation of classroom activities and interactions; 15% journal

NSCI 4793W Directed Studies: Writing Intensive

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ; no more than 7 cr of [4793, 4794, 4993, 4994] may count toward major requirements; Meets CLE req of Writing Intensive;

Instructor: STAFF

Description: 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; prereq instr consent , dept consent ; no more than 7 cr of [4793, 4794, 4993, 4994] may count toward major requirements; Meets CLE req of Writing Intensive;

Instructor: STAFF

Description: This course consists of laboratory or field investigation of selected areas of research, done under the direction of a faculty mentor. The course is writing intensive. Students will have the opportunity to present the results of their research in the format of a scientific article. They will learn to survey the current literature in their area of research, organize data, use statistical analyses if appropriate, and effectively communicate the results of their experiments through construction of tables, graphs, and other figures. Also, students will draw conclusions from their data and use persuasive arguments to convince readers of their interpretations of the data. Students will be required to write a 10-15 page paper in the format of a scientific article. This course is graded pass/fail, and the final grade is based on successful completion of the article.

Grading: 100% reports/papers.

NSCI 4993 Directed Studies

S-N only, 1-7 credit(s), max credits 7, 7 completions allowed; prereq instr consent, dept consent; max of 7 cr of 4993 and/or 4994 may count toward major requirements;

Instructor: STAFF

Description: Student may contact the instructor or department for information.

NSCI 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ; max of 7 cr of 4993 and/or 4994 may count toward major requirements;

Instructor: STAFF

Description: Student may contact the instructor or department for information.

Neurosurgery

D-429 Mayo (Box 96 UMHC)

NSU 5667 Neurobiology in Disease

2-3 credit(s), max credits 3, 1 completion allowed; Credit will not be granted if credit has been received for: NSC 5667;
Instructor: Low, Walter Cheney
Description: Student may contact the instructor or department for information.

Norwegian

205 Folwell Hall

NOR 1001 Beginning Norwegian

5 credit(s); Credit will not be granted if credit has been received for: NOR 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 Norwegian. 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 Norway is an integral part of the course. See description for Nor 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: 50% reports/papers, 50% other evaluation. oral/aural
Exam Format: structured exercises in all 4 modalities and grammar, pronunciation, vocabulary and culture

NOR 1003 Intermediate Norwegian

5 credit(s); prereq 1002; Credit will not be granted if credit has been received for: NOR 4003;
Instructor: STAFF
Description: This course continues the presentation of Norwegian language skills begun in 1001-2 (or quarter courses 1101-2-3). At this level, students will be reading and listening to more advanced authentic Norwegian material and will expand and refine vocabulary and knowledge of grammar. The 1003-4 course sequence will prepare students for the Graduation Proficiency Test (GPT) that will be taken toward the end of 1004. Students will practice the four language skills (speaking, writing, reading, and listening). Class sessions will emphasize interactive communicative activities in pairs and small groups; additional class time will be spent on reading, writing, and grammar. Students are expected to practice these skills outside of class as well. Learning about life and culture in Norway is an integral part of the course. See the description for Nor 4003 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: 50% reports/papers, 50% other evaluation. oral/aural
Exam Format: written essays, listening and reading protocols, structural exercises, oral interviews

NOR 4001 Beginning Norwegian

2 credit(s); prereq 1004 in another language or passing score on LPE or grad student; Credit will not be granted if credit has been received for: NOR 1001;
Instructor: STAFF
Description: See the course description for Nor 1001. This 4xxx-level course designator is a special option for qualified students to take the 1xxx-level course for reduced credits. If you have already passed the Graduation Proficiency Test (GPT) in another language or are a graduate student or are not seeking a

CLA degree, you may register for Nor 1001 under the number Nor 4001 for 2 credits. Contact the department office, (612) 625-2080, for permission.

NOR 4003 Intermediate Norwegian

2 credit(s); prereq 1004 in another language or passing score on LPE or grad student; Credit will not be granted if credit has been received for: NOR 1003;
Instructor: STAFF
Description: See the course description for Nor 1003. This 4xxx-level course designator is a special option for qualified students to take the 1xxx-level course for reduced credits. If you have already passed the Graduation Proficiency Test (GPT) in another language or are a graduate student or are not seeking a CLA degree, you may register for Nor 1003 under the number Nor 4003 for 2 credits. Contact the department office, (612) 625-2080, for permission.

Nursing

6-101 Weaver-Densford Hall

NURS 777 School of Nursing Professional Active Status

No Grade, 0 credit(s), 10 completions allowed; prereq MN or DNP student;
Instructor: Lindeke PhD, Linda L
Description: Student may contact the instructor or department for information.

NURS 1020 Challenge of Nursing

S-N only, 2 credit(s);
Instructor: Schadewald, Diane Marie
Description: Student may contact the instructor or department for information.

NURS 1030 Profession of Nursing Seminar

A-F only, 1 credit(s); prereq Nursing fr guarantee student, instr consent ;
Instructor: Alaniz, Karin Lue
Description: Student may contact the instructor or department for information.

NURS 2001 Human Growth and Development: A Life Span Approach

3 credit(s); prereq General psychology course; Meets CLE req of Social Science Core;
Instructor: Alaniz, Karin Lue
Description: Student may contact the instructor or department for information.

NURS 3115 Health Informatics: Clinical and Public Health

A-F only, 2 credit(s); prereq Undergrad or instr consent ;
Instructor: Kerr, Madeleine June
Description: Student may contact the instructor or department for information.

NURS 3115 Health Informatics: Clinical and Public Health

A-F only, 2 credit(s); prereq Undergrad or instr consent ;
Instructor: Monsen PhD, Karen A
Description: Student may contact the instructor or department for information.

NURS 3690 Life Span, Growth, and Development I

2 credit(s); prereq One general psychology and one general biology course or instr consent;
Instructor: Davis PhD, Joan Audray
Description: Student may contact the instructor or department for information.

NURS 3706 Therapeutic Communication

A-F only, 3 credit(s); prereq Nursing student or instr consent ;
Instructor: Dean, Patrick Joseph

Description: Student may contact the instructor or department for information.

NURS 3706 Therapeutic Communication

A-F only, 3 credit(s); prereq Nursing student or instr consent

;

Instructor: Fjone, Andra Lynn

Description: Student may contact the instructor or department for information.

NURS 3710 Statistics for Clinical Practice and Research

3 credit(s); prereq High school algebra or instr consent;

Meets CLE req of Mathematical Thinking Core;

Instructor: Findorff, Mary Jocelyn

Description: Student may contact the instructor or department for information.

NURS 3710 Statistics for Clinical Practice and Research

3 credit(s); prereq High school algebra or instr consent;

Meets CLE req of Mathematical Thinking Core;

Instructor: Herrick, Linda Marie

Description: Student may contact the instructor or department for information.

NURS 4104 Ethical Sensitivity and Reasoning in Health Care

2 credit(s); prereq [concurrent enrollment in 4100, 4101,

4102, 4103] or instr consent; Meets CLE req of

Citizenship/Publ Ethics Theme;

Instructor: Dean, Patrick Joseph

Description: Student may contact the instructor or department for information.

NURS 4104 Ethical Sensitivity and Reasoning in Health Care

2 credit(s); prereq [concurrent enrollment in 4100, 4101,

4102, 4103] or instr consent; Meets CLE req of

Citizenship/Publ Ethics Theme;

Instructor: Rowan, Mary M.

Description: Student may contact the instructor or department for information.

NURS 4201 Nursing Care of Adults

A-F only, 6 credit(s);

Instructor: Rowan, Mary M.

Description: Student may contact the instructor or department for information.

NURS 4201 Nursing Care of Adults

A-F only, 6 credit(s);

Instructor: Dunlap, Karen J

Description: Student may contact the instructor or department for information.

NURS 4201 Nursing Care of Adults

A-F only, 6 credit(s);

Instructor: Rhudy, Lori

Description: Student may contact the instructor or department for information.

NURS 4203 Nursing Fundamentals II: Assessment and Intervention

A-F only, 3 credit(s); prereq Nursing student or instr consent

;

Instructor: Steffes, Mary Teresa

Description: Student may contact the instructor or department for information.

NURS 4203 Nursing Fundamentals II: Assessment and Intervention

A-F only, 3 credit(s); prereq Nursing student or instr consent

;

Instructor: Rhudy, Lori

Description: Student may contact the instructor or department for information.

NURS 4320 Psychiatric and Mental Health Nursing

A-F only, 5 credit(s);

Instructor: Darst, Elaine

Description: Prerequisite: Nursing Student Develop skill in assessment of biopsychosocial needs, develop a holistic plan of care, help client negotiate care, and evaluate client outcomes. Students will establish therapeutic relationships with clients experiencing psychiatric illnesses using self as a therapeutic tool in promoting mental health. Prerequisites: Enrolled as Nursing Student in the School of Nursing.

Style: 50% Lecture, 2% Film/Video, 2% Discussion, 40% Laboratory, 2% Demonstration, 3% Guest Speakers, 1% Web Based.

Grading: 20% mid exam, 20% final exam, 40% reports/papers, 15% additional semester exams, 5% class participation. A passing grade on clinical evaluations is required to pass the course.

Exam Format: Multiple choice

NURS 4322 Population-based Public Health Nursing

A-F only, 5 credit(s); prereq Nursing or instr consent;

Instructor: Flaten, Carol

Description: Student may contact the instructor or department for information.

NURS 4324 Transcultural Nursing and Global Health

A-F only, 3 credit(s); prereq Nursing student or instr consent

; Meets CLE req of Cultural Diversity Theme; meets CLE req of International Perspect Theme;

Instructor: Halcon PhD, Linda Luciente

Description: Student may contact the instructor or department for information.

NURS 4324 Transcultural Nursing and Global Health

A-F only, 3 credit(s); prereq Nursing student or instr consent

; Meets CLE req of Cultural Diversity Theme; meets CLE req of International Perspect Theme;

Instructor: Dean, Patrick Joseph

Description: Student may contact the instructor or department for information.

NURS 4326 Nursing Care of Older Adults

A-F only, 3 credit(s); prereq Human Experience of Health and Illness, Introduction to Ethics, Introduction to Nursing, Therapeutic Communication, Nursing Fundamentals, Complex Nursing Interventions, Family Focused Care Across the Lifespan: I;

Instructor: Mueller, Christine Ann

Description: Student may contact the instructor or department for information.

NURS 4403 Nursing Care of Childbearing Families

A-F only, 4 credit(s); prereq 4201, 4203;

Instructor: Larson, Karin J

Description: Student may contact the instructor or department for information.

NURS 4404H Honors: Applied Research and Research Utilization

2 credit(s); prereq 4205V;

Instructor: Kubik, Martha Young

Description: Student may contact the instructor or department for information.

NURS 4404H Honors: Applied Research and Research Utilization

2 credit(s); prereq 4205V;

Instructor: Looman PhD, Wendy Sue

Description: Student may contact the instructor or department for information.

NURS 4408 Nursing Care of Infants, Children, and Adolescents

A-F only, 4 credit(s); prereq 4201, 4203;

Instructor: Dean, Patrick Joseph

Description: Student may contact the instructor or department for information.

NURS 4408 Nursing Care of Infants, Children, and Adolescents
A-F only, 4 credit(s); prereq 4201, 4203;
Instructor: Fjone, Andra Lynn
Description: Student may contact the instructor or department for information.

NURS 4430 Immunization Tour
S-N only, 1 credit(s); prereq 4202, level II nursing student, instr consent; Credit will not be granted if credit has been received for: PHAR 6210;
Instructor: Pfeiffer, Jeanne
Description: Student may contact the instructor or department for information.

NURS 4800 Nursing Topics
0-16 credit(s), max credits 16, 1 completion allowed; prereq instr consent ;
Instructor: Dean, Patrick Joseph
Description: Student may contact the instructor or department for information.

NURS 5016 Critical Reading of Scientific Literature in Adolescent Health
1 credit(s); prereq [Grad-level research methods course, inferential statistics course] or instr consent;
Instructor: Resnick PhD, Michael David
Description: Student may contact the instructor or department for information.

NURS 5030 Clinical Foundations
A-F only, 7 credit(s), max credits 21, 3 completions allowed; prereq Admission to postbaccalaureate certificate nursing program;
Instructor: Rowan, Mary M.
Description: Student may contact the instructor or department for information.

NURS 5034 Clinical Seminar: Nursing Care of Clients With Complex Health Conditions
A-F only, 2 credit(s); prereq 5033, 8100, Nursing Postbaccalaureate Certificate Prog;
Instructor: Friedrich, Cheri
Description: Student may contact the instructor or department for information.

NURS 5035 Practical Nursing Care for Complex Health Conditions
A-F only, 4 credit(s); prereq Nursing postbaccalaureate certificate program or master of nursing program;
Instructor: Friedrich, Cheri
Description: Student may contact the instructor or department for information.

NURS 5035 Practical Nursing Care for Complex Health Conditions
A-F only, 4 credit(s); prereq Nursing postbaccalaureate certificate program or master of nursing program;
Instructor: Flaten, Carol
Description: Student may contact the instructor or department for information.

NURS 5035 Practical Nursing Care for Complex Health Conditions
A-F only, 4 credit(s); prereq Nursing postbaccalaureate certificate program or master of nursing program;
Instructor: Fagerlund, Kathleen A
Description: Student may contact the instructor or department for information.

NURS 5035 Practical Nursing Care for Complex Health Conditions
A-F only, 4 credit(s); prereq Nursing postbaccalaureate certificate program or master of nursing program;
Instructor: Kraft, Linda
Description: Student may contact the instructor or department

for information.

NURS 5115 Interprofessional Health Care Informatics
A-F only, 3 credit(s);
Instructor: Westra, Bonnie L.
Description: Examines the implications of informatics for practice, including nursing, public health, and healthcare in general. Discusses electronic health record issues. Relates ethical, legislative and political issues informatics. Explores global and future informatics issues.

NURS 5115 Interprofessional Health Care Informatics
A-F only, 3 credit(s);
Instructor: Clancy, Thomas R
Description: Student may contact the instructor or department for information.

NURS 5116 Consumer Self-Care Informatics
1-2 credit(s), max credits 2, 1 completion allowed; prereq Nursing student or instr consent ;
Instructor: Westra, Bonnie L.
Description: Student may contact the instructor or department for information.

NURS 5190 Essentials of Holistic Health Assessment
A-F only, 3 credit(s); prereq Admission to MN Program;
Instructor: Schadewald, Diane Marie
Description: Student may contact the instructor or department for information.

NURS 5200 Holistic Health Assessment and Therapeutics for Advanced Practice Nurses
3 credit(s); prereq Nursing grad student or professional master of nursing [MN] student;
Instructor: Nygaard, Georgia Gayle
Description: Student may contact the instructor or department for information.

NURS 5204 Population Focused Assessment and Intervention
2 credit(s); prereq Grad nursing major, instr consent ;
Instructor: Robertson, Cheryl Lee
Description: Student may contact the instructor or department for information.

NURS 5221 Refugee Health: Trauma, Stress, and Coping
3 credit(s); prereq Grad student or instr consent ;
Instructor: Robertson, Cheryl Lee
Description: Student may contact the instructor or department for information.

NURS 5222 Advanced Physiology
3 credit(s);
Instructor: Anderson, Lisa Carney
Description: Student may contact the instructor or department for information.

NURS 5228 Pharmacology for Advanced Practice Nursing
A-F only, 2 credit(s); prereq Grad nursing student or instr consent ;
Instructor: Lichtblau PhD, Leonard
Description: Student may contact the instructor or department for information.

NURS 5241 Nursing Leadership for Effective Practice
A-F only, 3 credit(s); prereq Final sem of MN Program;
Instructor: Friedrich, Cheri
Description: Student may contact the instructor or department for information.

NURS 5310 Interprofessional Teamwork for Health Professionals
S-N only, 1 credit(s); prereq Student in [nursing or dentistry or medicine or pharmacy or public health or master's in health care administration];
Instructor: Rowan, Mary M.

Description: Student may contact the instructor or department for information.

NURS 5522 Sociopolitical Context of Women's Health

S-N only, 1-2 credit(s), max credits 3; prereq Grad student; Instructor: Ringdahl, Deborah Rene
Description: Student may contact the instructor or department for information.

NURS 5820 Foundations of Infection Control

3 credit(s); prereq Baccalaureate degree in health related field or instr consent ; Instructor: Pfeiffer, Jeanne
Description: Student may contact the instructor or department for information.

NURS 5830 Advanced Clinical Nursing

1-6 credit(s), max credits 6, 1 completion allowed; prereq Grad nursing major, instr consent ; Instructor: Rowan, Mary M.
Description: Student may contact the instructor or department for information.

NURS 5830 Advanced Clinical Nursing

1-6 credit(s), max credits 6, 1 completion allowed; prereq Grad nursing major, instr consent ; Instructor: Avery, Melissa D
Description: Student may contact the instructor or department for information.

NURS 5941 Nurse Anesthesia Practicum A

S-N only, 5 credit(s); prereq 5930; Instructor: Mund, Angela Renae
Description: Student may contact the instructor or department for information.

NURS 6100 Evidence-based Practice

A-F only, 3 credit(s); prereq Admission to DNP Program; Instructor: Herrick, Linda Marie
Description: Student may contact the instructor or department for information.

NURS 6100 Evidence-based Practice

A-F only, 3 credit(s); prereq Admission to DNP Program; Instructor: Gaugler PhD, Joseph E
Description: Student may contact the instructor or department for information.

NURS 6930 Foundations of Advanced Public Health Nursing Practice

A-F only, 3 credit(s); prereq DNP grad student in public health nursing; Instructor: Olson Keller, Linda
Description: Student may contact the instructor or department for information.

NURS 7000 DNP Proseminar

1 credit(s); prereq Admission to Post-BSN Doctorate of Nursing Practice Program; Instructor: Lindeke PhD, Linda L
Description: Student may contact the instructor or department for information.

NURS 7100 DNP Seminar I

S-N only, 4 credit(s); prereq Admission to DNP program; Instructor: Olson Keller, Linda
Description: Student may contact the instructor or department for information.

NURS 7202 Moral and Ethical Positions and Actions in Nursing

A-F only, 2 credit(s); prereq Grad student in nursing or instr consent ; Instructor: Duckett, Laura J
Description: Student may contact the instructor or department for information.

NURS 7300 Program Evaluation

A-F only, 3 credit(s); prereq Admission to DNP program or instr consent ; Instructor: Findorff, Mary Jocelyn
Description: Student may contact the instructor or department for information.

NURS 7300 Program Evaluation

A-F only, 3 credit(s); prereq Admission to DNP program or instr consent ; Instructor: Fulkerson, Jayne
Description: Student may contact the instructor or department for information.

NURS 7610 Health Innovations and Leadership

A-F only, 3 credit(s); prereq Grad student or instr consent ; Instructor: Disch, Joanne M
Description: Student may contact the instructor or department for information.

NURS 8121 Health Behaviors and Illness Responses

A-F only, 3 credit(s); prereq Doctoral student or instr consent; Instructor: Henly, Susan J
Description: Student may contact the instructor or department for information.

NURS 8124 Family Health Theory

2-3 credit(s), max credits 3, 1 completion allowed; prereq 8100 or instr consent; Instructor: Looman PhD, Wendy Sue
Description: Student may contact the instructor or department for information.

NURS 8140 Moral and Ethical Positions in Nursing

3 credit(s); prereq Grad nurs major or instr consent; Instructor: O'Conner-Von PhD, Susan K.
Description: Student may contact the instructor or department for information.

NURS 8152 Scholarship in Health Care Ethics

2 credit(s); prereq Doctoral student; Instructor: Duckett, Laura J
Description: Student may contact the instructor or department for information.

NURS 8170 Research in Nursing

3 credit(s); prereq concurrent enrollment 8170 or inferential stat course taken within two yrs; Instructor: Kerr, Madeleine June
Description: Student may contact the instructor or department for information.

NURS 8172 Theory and Theory Development for Research

3 credit(s); prereq Doctoral student; Instructor: Peden-McAlpine, Cynthia Jeanne
Description: Student may contact the instructor or department for information.

NURS 8175 Quantitative Research Design and Methods

A-F only, 3 credit(s); prereq [8170 or equiv], [8xxx statistics or Concurrent registration is required (or allowed) in 8xxx statistics]; Instructor: Lindquist, Ruth Ann
Description: Student may contact the instructor or department for information.

NURS 8177 Advanced Nursing Research Practicum

S-N only, 2 credit(s); prereq [8181 or concurrent enrollment in 8181], PhD nursing student, instr consent, adviser consent; Instructor: Henly, Susan J
Description: Student may contact the instructor or department for information.

NURS 8177 Advanced Nursing Research Practicum
S-N only, 2 credit(s); prereq [8181 or concurrent enrollment in 8181], PhD nursing student, instr consent, adviser consent;
Instructor: Kubik,Martha Young
Description: Student may contact the instructor or department for information.

NURS 8180 Doctoral Proseminar I: Scholarly Development
S-N only, 1 credit(s); prereq Doctoral nursing student;
Instructor: Wyman,Jean Frances
Description: Student may contact the instructor or department for information.

NURS 8185 Qualitative Data Analysis for Health Care Research
3-4 credit(s), max credits 4, 1 completion allowed; prereq 8171 or grad course in qualitative research methods;
Instructor: Peden-McAlpine,Cynthia Jeanne
Description: Student may contact the instructor or department for information.

NURS 8193 Special Topics in Nursing Research
1-6 credit(s), max credits 6; prereq instr consent ;
Instructor: Henly,Susan J
Description: Student may contact the instructor or department for information.

NURS 8193 Special Topics in Nursing Research
1-6 credit(s), max credits 6; prereq instr consent ;
Instructor: Westra,Bonnie L.
Description: Student may contact the instructor or department for information.

NURS 8194 Problems in Nursing - Plan B
S-N only, 1-6 credit(s), max credits 6, 3 completions allowed;
prereq [8100 or concurrent enrollment 8100], [8170 or concurrent enrollment 8170], instr consent;
Instructor: Lindquist,Ruth Ann
Description: Student may contact the instructor or department for information.

NURS 8194 Problems in Nursing - Plan B
S-N only, 1-6 credit(s), max credits 6, 3 completions allowed;
prereq [8100 or concurrent enrollment 8100], [8170 or concurrent enrollment 8170], instr consent;
Instructor: Westra,Bonnie L.
Description: Student may contact the instructor or department for information.

NURS 8194 Problems in Nursing - Plan B
S-N only, 1-6 credit(s), max credits 6, 3 completions allowed;
prereq [8100 or concurrent enrollment 8100], [8170 or concurrent enrollment 8170], instr consent;
Instructor: Robertson,Cheryl Lee
Description: Student may contact the instructor or department for information.

NURS 8194 Problems in Nursing - Plan B
S-N only, 1-6 credit(s), max credits 6, 3 completions allowed;
prereq [8100 or concurrent enrollment 8100], [8170 or concurrent enrollment 8170], instr consent;
Instructor: Juve,Catherine
Description: Student may contact the instructor or department for information.

NURS 8194 Problems in Nursing - Plan B
S-N only, 1-6 credit(s), max credits 6, 3 completions allowed;
prereq [8100 or concurrent enrollment 8100], [8170 or concurrent enrollment 8170], instr consent;
Instructor: Avery,Melissa D
Description: Student may contact the instructor or department for information.

NURS 8194 Problems in Nursing - Plan B
S-N only, 1-6 credit(s), max credits 6, 3 completions allowed;

prereq [8100 or concurrent enrollment 8100], [8170 or concurrent enrollment 8170], instr consent;
Instructor: Garcia PhD,Carolyn Marie
Description: Student may contact the instructor or department for information.

NURS 8194 Problems in Nursing - Plan B
S-N only, 1-6 credit(s), max credits 6, 3 completions allowed;
prereq [8100 or concurrent enrollment 8100], [8170 or concurrent enrollment 8170], instr consent;
Instructor: Fagerlund,Kathleen A
Description: Student may contact the instructor or department for information.

NURS 8194 Problems in Nursing - Plan B
S-N only, 1-6 credit(s), max credits 6, 3 completions allowed;
prereq [8100 or concurrent enrollment 8100], [8170 or concurrent enrollment 8170], instr consent;
Instructor: Kaas,Merrie Jean
Description: Student may contact the instructor or department for information.

NURS 8194 Problems in Nursing - Plan B
S-N only, 1-6 credit(s), max credits 6, 3 completions allowed;
prereq [8100 or concurrent enrollment 8100], [8170 or concurrent enrollment 8170], instr consent;
Instructor: Peden-McAlpine,Cynthia Jeanne
Description: Student may contact the instructor or department for information.

NURS 8194 Problems in Nursing - Plan B
S-N only, 1-6 credit(s), max credits 6, 3 completions allowed;
prereq [8100 or concurrent enrollment 8100], [8170 or concurrent enrollment 8170], instr consent;
Instructor: Disch,Joanne M
Description: Student may contact the instructor or department for information.

NURS 8194 Problems in Nursing - Plan B
S-N only, 1-6 credit(s), max credits 6, 3 completions allowed;
prereq [8100 or concurrent enrollment 8100], [8170 or concurrent enrollment 8170], instr consent;
Instructor: Looman PhD,Wendy Sue
Description: Student may contact the instructor or department for information.

NURS 8240 Advanced Practice Nursing: Roles and Issues
2 credit(s); prereq Admission to advanced practice area of study or instr consent;
Instructor: Nygaard,Georgia Gayle
Description: Student may contact the instructor or department for information.

NURS 8241 Health Care Leadership for a Changing World
2 credit(s), max credits 3, 1 completion allowed; prereq AHC grad student or instr consent;
Instructor: Chesney PhD,Mary L
Description: Student may contact the instructor or department for information.

NURS 8242 Population Focused Health Care Delivery Systems
2 credit(s); prereq Grad nurs student or instr consent;
Instructor: Kerr,Madeleine June
Description: Student may contact the instructor or department for information.

NURS 8315 Advanced Practice Nursing for Adults
A-F only, 4-5 credit(s), max credits 5, 1 completion allowed;
prereq 5222, 5800, 8100, 8140, 8170, instr consent;
Instructor: Pung,Laurie Jean
Description: Student may contact the instructor or department for information.

NURS 8322 Primary Health Care for Elders
A-F only, 3-6 credit(s), max credits 6, 1 completion allowed;

prereq 8321, instr consent ;

Instructor: Pung,Laurie Jean

Description: Student may contact the instructor or department for information.

NURS 8340 Advanced Practice Psychiatric/Mental Health Nursing with Individuals and Their Families
7 credit(s); prereq 5200, 5223, 5225, 8100, 8121, 8140, 8170;
Instructor: Kaas,Merrie Jean
Description: Student may contact the instructor or department for information.

NURS 8360 Advanced Clinical Nursing
1-6 credit(s), max credits 6, 1 completion allowed; prereq Grad nurs major, instr consent;
Instructor: Nygaard,Georgia Gayle
Description: Student may contact the instructor or department for information.

NURS 8361 Special Topics in Nursing
1-4 credit(s), max credits 4, 1 completion allowed; prereq Grad nurs major, instr consent;
Instructor: Monsen PhD,Karen A
Description: Student may contact the instructor or department for information.

NURS 8404 Family Practice Practicum I
A-F only, 2 credit(s); prereq 5200, 5222, 5224, 8402, 8601;
Instructor: Schadewald,Diane Marie
Description: Student may contact the instructor or department for information.

NURS 8406 Health Care of Children for the Family Nurse Practitioner
A-F only, 3 credit(s); prereq instr consent;
Instructor: Benbenek,Mary Mescher
Description: Student may contact the instructor or department for information.

NURS 8407 Health Care of Children Practicum for the Family Nurse Practitioner
A-F only, 2 credit(s); prereq 5200, 5222, 5224, 8242, 8402;
Instructor: Benbenek,Mary Mescher
Description: Student may contact the instructor or department for information.

NURS 8452 Primary Care: Common Acute Health Conditions Affecting Children
2 credit(s); prereq 8501, 8451, concurrent enrollment in 8453, instr consent;
Instructor: Poe,Christine R
Description: Student may contact the instructor or department for information.

NURS 8453 Primary Care Practicum: Common Acute and Chronic Health Conditions Affecting Children
3 credit(s); prereq 8411, 8442, concurrent enrollment in 8452, instr consent;
Instructor: Poe,Christine R
Description: Student may contact the instructor or department for information.

NURS 8455 Health Care for Children and Youth with Special Health-Care Needs
2 credit(s); prereq 8454;
Instructor: O'Conner-Von PhD,Susan K.
Description: Student may contact the instructor or department for information.

NURS 8459 Advanced Nursing Care of Children With Acute Illness for Pediatric Clinical Nurse Specialists
2 credit(s); prereq Nursing grad student admitted to pediatric clinical nurse specialist area of study or instr consent;
Instructor: Kraft,Linda

Description: Student may contact the instructor or department for information.

NURS 8503 Nurse-Midwifery Care of the Childbearing Family
A-F only, 4-10 credit(s), max credits 10, 1 completion allowed; prereq 8501, instr consent;
Instructor: Plumbo,Margaret Anne
Description: Student may contact the instructor or department for information.

NURS 8520 Advanced Concepts in Women's Health for the Nurse Practitioner
A-F only, 3-8 credit(s), max credits 8, 1 completion allowed; prereq 8501, instr consent;
Instructor: Ringdahl,Deborah Rene
Description: Student may contact the instructor or department for information.

NURS 8600 Advanced Public Health Nursing
2 credit(s); prereq Grad nursing major;
Instructor: Olson Keller,Linda
Description: Student may contact the instructor or department for information.

NURS 8602 Public Health Nursing Intervention Practicum
S-N only, 3 credit(s); prereq 8242, 8601;
Instructor: Findorff,Mary Jocelyn
Description: Student may contact the instructor or department for information.

NURS 8603 Public Health Nursing Leadership Practicum
S-N only, 3 credit(s); prereq 8100, 8170, 8241, 8242, 8600;
Instructor: Findorff,Mary Jocelyn
Description: Student may contact the instructor or department for information.

Nutrition

225 Food Science & Nutrition Building

NUTR 5621W Macronutrient Metabolism
4 credit(s); prereq BIOC 3021, PHSL 3051, FSCN 4612; Meets CLE req of Writing Intensive;
Instructor: Mashek,Douglas
Description: This course is designed to provide students with an understanding of carbohydrate, lipid and protein metabolism with a special emphasis on energy metabolism. It specifically emphasizes regulatory mechanisms of these metabolic pathways and how these pathways interrelate as a means to maintain homeostasis. We will also highlight how alterations in these metabolic pathways can lead to metabolic diseases such as diabetes, obesity, etc. We will read research articles and often discuss data so that students will have a better understanding of designing, analyzing and interpreting research data. Additionally, this will expose students to modern techniques and the latest research on macronutrient metabolism. This course will involve a variety of activities such as small and large group discussions, a variety of brief in class assignments, quizzes, article critiques, papers and presentations.
Style: 80% Lecture, 10% Discussion, 5% Small Group Activities, 5% Student Presentation.
Grading: 20% final exam, 24% reports/papers, 8% quizzes, 30% additional semester exams, 4% class participation, 14% other evaluation.

NUTR 8620 Advances in Nutrition
2-3 credit(s), max credits 6, 3 completions allowed; prereq instr consent;
Instructor: Csallany,A Saari
Description: Student may contact the instructor or department for information.

NUTR 8621 Presentation Skills

S-N only, 1 credit(s); prereq dept consent;

Instructor: Kurzer PhD,Mindy Susan

Description: Student may contact the instructor or department for information.

NUTR 8695 Independent Study: Nutrition

1-10 credit(s), max credits 30, 3 completions allowed; prereq instr consent ;

Instructor: Cariad-Barrett,Anna

Description: Student may contact the instructor or department for information.

Occupational Therapy

271 Children's Rehabilitation Center(Box 388 UMMC)

OT 1003 Orientation to Occupational Therapy

S-N only, 1 credit(s);

Instructor: Jacobs,C

Description: This course is designed to help you decide whether a career in occupational therapy is the right choice for you. In this course, you will learn what occupational therapy is and how occupational therapists use activity as a treatment modality. The lessons will describe some of the treatment settings in which you might work as an occupational therapist. This course is required if you wish to apply to the master's program in occupational therapy at the University of Minnesota.
Style: 100% Web Based.

Grading: 54% final exam, 16% quizzes, 30% written homework. S/N

OT 5395 Independent Study in Occupational Therapy

1-4 credit(s), max credits 16, 16 completions allowed; prereq Enrolled OT student or instr consent ;

Instructor: Martin PhD,Peggy Mae

Description: Student may contact the instructor or department for information.

OT 6100 Public and Professional Engagement I

S-N only, 0.5 credit(s), max credits 1;

Instructor: Martin PhD,Peggy Mae

Description: Student may contact the instructor or department for information.

OT 6100 Public and Professional Engagement I

S-N only, 0.5 credit(s), max credits 1;

Instructor: Howe,Malia

Description: Student may contact the instructor or department for information.

OT 6101 Foundations of Occupational Science and Occupational Therapy

A-F only, 4 credit(s);

Instructor: Schaber PhD,Patricia Louise

Description: Student may contact the instructor or department for information.

OT 6102 Professional Identity: Behaviors and Attitudes

S-N only, 2 credit(s);

Instructor: Schaber PhD,Patricia Louise

Description: Student may contact the instructor or department for information.

OT 6103 Occupational Therapy Process for Society

A-F only, 3 credit(s);

Instructor: Martin PhD,Peggy Mae

Description: Student may contact the instructor or department for information.

OT 6111 Foundations: Occupations as Therapy

A-F only, 3 credit(s);

Instructor: Hutson,Jennifer Ann

Description: Student may contact the instructor or department for information.

OT 6113 Occupational Therapy Process for Community

A-F only, 3 credit(s);

Instructor: Jones,Terrienne Thielen

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; prereq 6100 or instr consent ;

Instructor: Martin PhD,Peggy Mae

Description: Student may contact the instructor or department for information.

OT 6200 Public and Professional Engagement II

S-N only, 0.5 credit(s), max credits 1.5, 3 completions allowed; prereq 6100 or instr consent ;

Instructor: Howe,Malia

Description: Student may contact the instructor or department for information.

OT 6402 Occupational Therapy Process for Individuals:

Occupation Through Neurorehabilitative Approaches

A-F only, 4 credit(s); prereq Registered OT student or instr consent ;

Instructor: Stern PhD,Erica Beth

Description: Student may contact the instructor or department for information.

OT 6403 Management of Occupational Therapy Services

A-F only, 1-10 credit(s), max credits 10, 1 completion allowed; prereq Registered OT student or instr consent ;

Instructor: Quake-Rapp PhD,Cindee

Description: Student may contact the instructor or department for information.

OT 6412 Occupational Therapy Process for Individuals:

Orthotics and Prosthetics

A-F only, 3 credit(s); prereq Registered OT student or instr consent ;

Instructor: McGee,Corey Weston

Description: Student may contact the instructor or department for information.

OT 6422 Occupational Therapy Process: Group Context

A-F only, 2 credit(s); prereq Registered OT student or instr consent ;

Instructor: Schaber PhD,Patricia Louise

Description: Student may contact the instructor or department for information.

OT 6432 Occupational Therapy Process for Individuals:

Educational Context

A-F only, 2 credit(s); prereq Registered OT student or instr consent ;

Instructor: Erickson MPA,OT/L,Maureen A.

Description: Student may contact the instructor or department for information.

OT 7201 Scholarly Inquiry in Health Sciences

A-F only, 4 credit(s); prereq OT student or instr consent ;

Instructor: Mathiowetz PhD,Virgil G

Description: Student may contact the instructor or department for information.

OT 7494 Scholarly Project in OT II

S-N only, 4 credit(s); prereq Registered OT student or instr consent ;

Instructor: Schaber PhD,Patricia Louise

Description: Student may contact the instructor or department for information.

OT 7596 Occupational Therapy Level II Fieldwork I

S-N only, 6 credit(s); prereq Registered OT student or instr consent ;

Instructor: Erickson MPA,OT/L,Maureen A.

Description: Student may contact the instructor or department for information.

OT 7696 Occupational Therapy Level II Fieldwork II

S-N only, 6 credit(s); prereq Registered OT student or instr consent ;

Instructor: Erickson MPA,OT/L,Maureen A.

Description: Student may contact the instructor or department for information.

OT 7796 Occupational Therapy Level II Fieldwork III: Optional

S-N only, 1-6 credit(s), max credits 6, 1 completion allowed; prereq Registered OT student or instr consent ;

Instructor: Erickson MPA,OT/L,Maureen A.

Description: Student may contact the instructor or department for information.

OT 8310 Research Problems in Occupational Therapy

S-N only, 1-6 credit(s), max credits 6, 3 completions allowed; prereq [5392, Plan B OT student] or instr consent ;

Instructor: Schaber PhD,Patricia Louise

Description: Student may contact the instructor or department for information.

OT 8320 Fieldwork Education in Occupational Therapy I

S-N only, 1-6 credit(s), max credits 6; prereq Occupational therapy student or instr consent ;

Instructor: Erickson MPA,OT/L,Maureen A.

Description: Student may contact the instructor or department for information.

OT 8321 Fieldwork Education in Occupational Therapy II

S-N only, 1-6 credit(s), max credits 6; prereq Occupational therapy student or instr consent ;

Instructor: Erickson MPA,OT/L,Maureen A.

Description: Student may contact the instructor or department for information.

OT 8322 Fieldwork Education in Occupational Therapy III:

Optional

S-N only, 1-6 credit(s), max credits 6; prereq Occupational therapy student or instr consent ;

Instructor: Erickson MPA,OT/L,Maureen A.

Description: Student may contact the instructor or department for information.

Off-Campus Study

220 Johnston Hall

OCS 520 Off-Campus Study

S-N only, 0 credit(s); prereq dept consent ;

Instructor: Holliday,David Wallace

Description: Student may contact the instructor or department for information.

OCS 550 National Student Exchange: Off-Campus Study

S-N only, 0 credit(s), 3 completions allowed; prereq dept consent ;

Instructor: STAFF

Description: This course registration allows students to study in a different part of the United States for up to a year through National Student Exchange. There are more than 170 National Student Exchange (NSE) institutions in Hawaii, Florida, and 48 other states and regions, including Puerto Rico, Guam, the Virgin Islands, and Canada. The application deadline for participation in the following academic year is mid-February. Prerequisite: application and acceptance into the National Student Exchange program in the Career and Community Learning Center.

OCS 1550 National Student Exchange: Off-Campus Study

S-N only, 1-15 credit(s), max credits 15, 3 completions

allowed; prereq dept consent ;

Instructor: STAFF

Description: This course registration allows students to study in a different part of the United States for up to a year through National Student Exchange. There are more than 170 National Student Exchange (NSE) institutions in Hawaii, Florida, and 48 other states and regions, including Puerto Rico, Guam, the Virgin Islands, and Canada. The application deadline for participation in the following academic year is mid-February. Prerequisite: application and acceptance into the National Student Exchange program in the Career and Community Learning Center.

OCS 3500 Domestic Off-Campus

S-N only, 1-15 credit(s), max credits 15, 1 completion

allowed; prereq dept consent ;

Instructor: Holliday,David Wallace

Description: Student may contact the instructor or department for information.

OCS 3550 National Student Exchange: Off-Campus Study

S-N only, 0 credit(s); prereq dept consent ;

Instructor: STAFF

Description: This course registration allows students to study in a different part of the United States for up to a year through National Student Exchange. There are more than 170 National Student Exchange (NSE) institutions in Hawaii, Florida, and 48 other states and regions, including Puerto Rico, Guam, the Virgin Islands, and Canada. The application deadline for participation in the following academic year is mid-February. Prerequisite: application and acceptance into the National Student Exchange program in the Career and Community Learning Center.

Ojibwe 19 Scott Hall

OJIB 1101 Beginning Ojibwe I

5 credit(s); Credit will not be granted if credit has been received for: OJIB 4101;

Instructor: Jones,Dennis

Description: Student may contact the instructor or department for information.

OJIB 3103 Intermediate Ojibwe I

5 credit(s); prereq 1101, 1102; Credit will not be granted if credit has been received for: OJIB 4103;

Instructor: Jones,Dennis

Description: Student may contact the instructor or department for information.

OJIB 4101 Beginning Ojibwe I

3 credit(s); prereq 1004 in another language or passing score on LPE or grad student; Credit will not be granted if credit has been received for: OJIB 1101;

Instructor: Jones,Dennis

Description: Student may contact the instructor or department for information.

OJIB 4103 Intermediate Ojibwe I

3 credit(s); prereq 1101, 3103; Credit will not be granted if credit has been received for: OJIB 3103;

Instructor: Jones,Dennis

Description: Student may contact the instructor or department for information.

OJIB 5106 Advanced Ojibwe Language I

A-F only, 3 credit(s), max credits 12, 4 completions allowed;

Instructor: Fairbanks,Brendan George

Description: Student may contact the instructor or department for information.

Operations and Management Sciences

3-140 CarlSMgmt

OMS 2550 Business Statistics: Data Sources, Presentation, and Analysis

A-F only, 4 credit(s); prereq [Math 1031 or equiv], at least 30 cr credit will not be granted if credit received for: 1550; Credit will not be granted if credit has been received for:

OMS 2550H;

Instructor: STAFF

Description: Student may contact the instructor or department for information.

OMS 2550H Honors: Business Statistics: Data Sources, Presentation, and Analysis

A-F only, 4 credit(s); prereq [Math 1031 or equiv], honors, at least 30 cr; Credit will not be granted if credit has been received for: OMS 2550;

Instructor: Huchendorf, Steven Craig

Description: Student may contact the instructor or department for information.

OMS 3001 Introduction to Operations Management

A-F only, 3 credit(s);

Instructor: STAFF

Description: Basic concepts, principles, and techniques for managing manufacturing and service operations. Emphasis on decision making in the operations function of organizations. Quantitative and qualitative methods for improving the management of operations stressed. Management students provided with an appreciation of the operations function of organizations.

Style: 50% Lecture, 30% Discussion. interactive games

Grading: 20% mid exam, 30% final exam, 10% quizzes, 15% class participation, 25% problem solving.

Exam Format: multiple choice, short answer, problem solving

OMS 3041 Project Management

A-F only, 2 credit(s); prereq 3000 or instr consent ;

Instructor: Buchner, Thomas Wayne

Description: Student may contact the instructor or department for information.

OMS 3048 Transportation and Logistics Management

A-F only, 2 credit(s); prereq 3001;

Instructor: Martens, Scott L

Description: Student may contact the instructor or department for information.

OMS 3051 Service Management

A-F only, 2 credit(s); prereq 3001;

Instructor: Goldstein, Susan Meyer

Description: Each of us consumes services and cares about how they are delivered. Services generate nearly 80% of the U.S. GDP and provide billions of dollars in trade surplus. There is a continual need for new services, higher quality services, and more efficient services. In this course, we study many service industries - health care, retail, banking, professional services. We tackle issues unique to managing service organizations. Identifying service needs, designing servicescapes, and managing queues, and - most importantly - managing the people who deliver and consume services. That is, we study the employees, the customers, how to manage them, and how to create the 'right' experience for each and every one.

OMS 3056 Supply Chain Planning and Control

A-F only, 4 credit(s); prereq 3001 or instr consent ;

Instructor: STAFF

Description: Concepts and principles related to designing, controlling, and improving production and inventory management systems throughout the supply chain. Topics include capacity

planning, inventory planning, production planning, forecasting methods, Material Requirements Planning (MRP), Just-in-Time, and theory of constraints.

OMS 3061 Lean Thinking

A-F only, 2 credit(s); prereq 3001;

Instructor: Shah, Rachna

Description: Student may contact the instructor or department for information.

OMS 6051 Service Management

A-F only, 2 credit(s); prereq [MBA 6220 or equiv], MBA student;

Instructor: Goldstein, Susan Meyer

Description: Each of us consumes services and cares about how they are delivered. Services generate nearly 80% of the U.S. GDP and provide billions of dollars in trade surplus. There is a continual need for new services, higher quality services, and more efficient services. In this course, we study many service industries - health care, retail, banking, professional services. We tackle issues unique to managing service organizations. Identifying service needs, designing servicescapes, and managing queues, and - most importantly - managing the people who deliver and consume services. That is, we study the employees, the customers, how to manage them, and how to create the 'right' experience for each and every one.

OMS 6059 Quality Management and Lean Six Sigma

A-F only, 4 credit(s); prereq [MBA 6220 or equiv], MBA student;

Instructor: Anderson, John C

Description: Student may contact the instructor or department for information.

OMS 6081 Operations Strategy

A-F only, 2 credit(s); prereq [MBA 6220 or equiv], MBA student;

Instructor: Schroeder, Roger Glenn

Description: Formulation/implementation of operations strategy. Managing operations for competitive advantage. Integration of operations strategy with functional areas. Operations strategy for service/manufacturing firms for process focus, speed, flexibility, and environmental challenges.

Style: 30% Lecture, 20% Discussion, 10% Small Group Activities, 30% Student Presentation, 10% Guest Speakers. Student presentations are of case studies

Grading: 20% special projects, 50% reflection paper, 30% in-class presentation.

OMS 6082 International Operations Management

A-F only, 2 credit(s); prereq [MBA 6220 or equiv], MBA student;

Instructor: Schroeder, Roger Glenn

Description: Managing operations in global economy.

Coordinating product design, technology transfer, sourcing, supply chains, quality standards, product assignment, facility location, and multicultural workforce management across national boundaries. Cross-functional decision making.

Style: 30% Lecture, 20% Discussion, 30% Student Presentation, 20% Guest Speakers.

Grading: 50% reports/papers, 30% special projects, 20% in-class presentation.

OMS 8745 Research on Quality Management

A-F only, 3 credit(s), max credits 4, 1 completion allowed; prereq Business admin PhD student or instr consent; offered alt yrs;

Instructor: Rungtusanatham PhD, M. Johnny

Description: Student may contact the instructor or department for information.

Oral Biology

15-209 MoosT

OBIO 5001 Methods in Research and Writing**2 credit(s);****Instructor:** Herzberg,Mark C**Description:** Student may contact the instructor or department for information.**OBIO 8021 Oral Microbiology****2 credit(s); prereq Dental specialist or oral research trainee or instr consent;****Instructor:** Rudney,Joel David**Description:** Student may contact the instructor or department for information.**OBIO 8030 Oral Biology Seminar****S-N only, 1 credit(s), max credits 10, 10 completions allowed; prereq Dental specialist or oral research trainee or instr consent;****Instructor:** Herzberg,Mark C**Description:** Student may contact the instructor or department for information.**OBIO 8093 Tutorial in Oral Biology****S-N only, 1-2 credit(s), max credits 2, 1 completion allowed; prereq instr consent;****Instructor:** Herzberg,Mark C**Description:** Student may contact the instructor or department for information.**OBIO 8094 Directed Research****S-N only, 1-10 credit(s), max credits 10, 1 completion allowed; prereq instr consent;****Instructor:** Herzberg,Mark C**Description:** Student may contact the instructor or department for information.**OBIO 8371 Mucosal Immunobiology****A-F only, 3 credit(s); prereq MICa 8001 or equiv or instr consent; Credit will not be granted if credit has been received for: CMB 8371;****Instructor:** Herzberg,Mark C**Description:** Student may contact the instructor or department for information.**OSUR 8253 Case Presentations and Chief Conferences****A-F only, 0-5 credit(s), max credits 5, 1 completion allowed; prereq Participation in oral and maxillofacial surgery training program;****Instructor:** Sandler,Noah**Description:** Student may contact the instructor or department for information.**OSUR 8255 General Surgery Rotation for the Oral and Maxillofacial Surgeon****A-F only, 0-5 credit(s), max credits 5, 1 completion allowed; prereq Participation in oral and maxillofacial surgery training program;****Instructor:** Sandler,Noah**Description:** Student may contact the instructor or department for information.**OSUR 8256 Contemporary Anesthesia Literature Review****A-F only, 0-3 credit(s), max credits 3, 1 completion allowed; prereq Participation in oral and maxillofacial surgery training program;****Instructor:** Sandler,Noah**Description:** Student may contact the instructor or department for information.**OSUR 8260 Surgical Rounds for the Oral and Maxillofacial Surgeon****A-F only, 0-5 credit(s), max credits 5, 1 completion allowed; prereq Participation in oral and maxillofacial surgery training program;****Instructor:** Sandler,Noah**Description:** Student may contact the instructor or department for information.**OSUR 8267 Anesthesia Rotation for the Oral and Maxillofacial Surgeon****A-F only, 0-5 credit(s), max credits 5, 1 completion allowed; prereq Participation in oral and maxillofacial surgery training program;****Instructor:** Sandler,Noah**Description:** Student may contact the instructor or department for information.**Oral and Maxillofacial Surgery***7-174 MoosT***OSUR 5257 Ambulatory General Anesthesia for the Oral and Maxillofacial Surgeon****A-F only, 0-6 credit(s), max credits 6, 1 completion allowed; prereq Participation in oral and maxillofacial surgery training program.;****Instructor:** Sandler,Noah**Description:** Student may contact the instructor or department for information.**OSUR 5276 Medicine Rotation for the Oral and Maxillofacial Surgeon****A-F only, 0-4 credit(s), max credits 4, 1 completion allowed; prereq Participation in oral and maxillofacial surgery training program.;****Instructor:** Sandler,Noah**Description:** Student may contact the instructor or department for information.**OSUR 8250 Oral and Maxillofacial Surgery Rotation for the Oral and Maxillofacial Surgeon****A-F only, 0-6 credit(s), max credits 6, 1 completion allowed; prereq Participation in oral and maxillofacial surgery training program;****Instructor:** Sandler,Noah**Description:** Student may contact the instructor or department for information.**Orthodontics***15-209 MoosT***OTHO 7102 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 7112 Diagnosis & Treatment Planning****A-F only, 0-5 credit(s), max credits 5, 1 completion allowed; prereq Admission to graduate orthodontic program.;****Instructor:** Vayda,Patricia Macchiarul**Description:** Student may contact the instructor or department for information.**OTHO 7202 Clinical Orthodontics****A-F only, 0-5 credit(s), max credits 5, 1 completion allowed; prereq Admission to graduate orthodontic program.;****Instructor:** Speidel,T Michael**Description:** Student may contact the instructor or department for information.**OTHO 8122 Orthodontic Seminar****A-F only, 0-5 credit(s), max credits 5, 1 completion allowed; prereq Orthodontic grad student;****Instructor:** Pliska DDS,MS,Benjamin T**Description:** Student may contact the instructor or department for information.

OTHO 8132 Topics in Orthodontics

A-F only, 0-5 credit(s), max credits 5, 1 completion allowed;
prereq Orthodontic grad student;
Instructor: Ekim,Lilah Suzan
Description: Student may contact the instructor or department for information.

OTHO 8142 Research in Orthodontics

A-F only, 0-5 credit(s), max credits 5, 1 completion allowed;
prereq Orthodontic grad student;
Instructor: Beyer,John Paul
Description: Student may contact the instructor or department for information.

Otolaryngology

8-240 PWB (Mayo Mail Code 396)

OTOL 5102 Introduction to the Basic Sciences in Otolaryngology II: Head and Neck

A-F only, 2 credit(s); prereq Otol major or instr consent ;
Instructor: Lassman, Frank M
Description: Student may contact the instructor or department for information.

OTOL 8230 Clinical Otorhinolaryngology

A-F only, 4 credit(s); prereq Grad otol major;
Instructor: Yueh,Bevan
Description: Student may contact the instructor or department for information.

OTOL 8231 Surgery of the Ear, Nose, and Throat

A-F only, 3 credit(s); prereq Grad otol major;
Instructor: Yueh,Bevan
Description: Student may contact the instructor or department for information.

OTOL 8232 Maxillofacial Surgery

A-F only, 1 credit(s); prereq Grad otol major;
Instructor: Hilger,Peter A
Description: Student may contact the instructor or department for information.

OTOL 8233 Plastic and Reconstructive Surgery: Head and Neck

A-F only, 1 credit(s); prereq Otol major;
Instructor: Hilger,Peter A
Description: Student may contact the instructor or department for information.

OTOL 8234 Anatomy of the Head and Neck and Temporal Bone Dissection

2 credit(s); prereq Grad otol major or instr consent;
Instructor: Huang,Tina Chung Ting
Description: Student may contact the instructor or department for information.

OTOL 8237 Endoscopy

A-F only, 1 credit(s), max credits 12, 12 completions allowed; prereq Grad otol major;
Instructor: Goding,George S
Description: Student may contact the instructor or department for information.

OTOL 8239 Otoneurology

1-2 credit(s), max credits 12, 12 completions allowed; prereq Grad otol major or instr consent;
Instructor: Anderson,John Harold
Description: Student may contact the instructor or department for information.

OTOL 8240 Allergy

A-F only, 1 credit(s), max credits 12, 12 completions

allowed; prereq Grad otol major;

Instructor: Boyer MD,Holly C

Description: Student may contact the instructor or department for information.

OTOL 8241 Cancer of the Head and Neck

A-F only, 1 credit(s), max credits 12, 12 completions allowed; prereq Grad otol major;
Instructor: Yueh,Bevan
Description: Student may contact the instructor or department for information.

OTOL 8242 Audiology and Speech Pathology

2 credit(s); prereq Grad otol major or instr consent ;
Instructor: Michael,Deirdre D.
Description: Student may contact the instructor or department for information.

OTOL 8243 Introduction to Research Methodology

1 credit(s); prereq Grad otol major or instr consent ;
Instructor: Daly,Kathleen A
Description: Student may contact the instructor or department for information.

OTOL 8248 Directed Readings in Auditory Physiology

1-2 credit(s), max credits 2, 1 completion allowed; prereq instr consent ; Credit will not be granted if credit has been received for: NSC 8248;
Instructor: Anderson,John Harold
Description: Student may contact the instructor or department for information.

OTOL 8249 Current Topics in Cochlear Anatomy

1 credit(s); prereq instr consent ;
Instructor: Santi,Peter A
Description: Student may contact the instructor or department for information.

OTOL 8250 Advanced Biochemistry of the Auditory System

1 credit(s); prereq MdBc 6100, MdBc 6101 or equiv or instr consent ;
Instructor: Juhn,Steven Kung
Description: Student may contact the instructor or department for information.

OTOL 8262 Advanced Clinical Audiology

2 credit(s); prereq Grad otol major, 8242 or instr consent;
Instructor: Margolis,Robert H
Description: Student may contact the instructor or department for information.

Pediatric Dentistry

6-150 MoosT

PDEN 7000 Advanced Pediatric Dentistry for Postgraduate Dental Fellows

S-N only, 1 credit(s);
Instructor: Grothe,Ron
Description: Student may contact the instructor or department for information.

PDEN 7100 Advanced Clinical Pediatric Dentistry Techniques

A-F only, 1-5 credit(s), max credits 5, 1 completion allowed;
Instructor: Grothe,Ron
Description: Student may contact the instructor or department for information.

PDEN 7200 Advanced Pediatric Dentistry Techniques

A-F only, 3 credit(s);
Instructor: Grothe,Ron
Description: Description of and exercises in advanced pediatric dentistry skills and techniques.

PDEN 7200 Advanced Pediatric Dentistry Techniques**A-F only, 3 credit(s);****Instructor:** Moshier-Wallin, Beth Mae**Description:** Description of and exercises in advanced pediatric dentistry skills and techniques.**PDEN 8010 Pediatric Dentistry and Treatment Planning****A-F only, 1 credit(s);****Instructor:** Grothe, Ron**Description:** Student may contact the instructor or department for information.**PDEN 8031 Independent Pediatric Dentistry Study****2 credit(s);****Instructor:** Grothe, Ron**Description:** Student may contact the instructor or department for information.**PDEN 8100 Hospital Pediatric Dentistry I****S-N only, 1 credit(s);****Instructor:** Grothe, Ron**Description:** Student may contact the instructor or department for information.**PDEN 8110 Hospital Pediatric Dentistry II****S-N only, 3 credit(s);****Instructor:** Grothe, Ron**Description:** Student may contact the instructor or department for information.**Pediatrics****13-118 PWB (Box 391 UMHC)****PED 7091 Independent Study in the Neural Basis of Anger, Tantrums, and Aggression****A-F only, 2 credit(s); prereq instr consent ;****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; prereq Grad Phm major;****Instructor:** Panyam PhD, Jayanth**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; prereq Grad Phm major;****Instructor:** Wiedmann, Timothy Scott**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; prereq instr consent ;****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; prereq Grad Phm major; Credit 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 Release: Materials, Mechanisms, and Models****A-F only, 3 credit(s); prereq Differential equations course including 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.**Pharmacology**
6-120 Jackson Hall**PHCL 4001 Mechanisms of Drug Action****A-F only, 2 credit(s); prereq Upper div or instr consent; [prev or concurrent] courses in [biology, biochemistry] recommended;****Instructor:** Connell, Gregory James**Description:** This introductory course is highly appropriate for those students interested in health sciences research, medicine, or the pharmaceutical industry. In our modern society, drug-based strategies are the predominant and often the most effective way to treat disease. This course presents many of the fundamental concepts that define the discipline of Pharmacology by focusing on the derivation of a drug-based strategy to treat a single medical condition. This semester's course will be centered on the development of novel anti-cancer drugs and is designed to be interactive, with both written and oral components.**Additional Info:** Please contact course directors directly or visit the website: Class URL:<http://www.pharmacology.med.umn.edu/PHCL4001.html>**PHCL 5109 Problems in Pharmacology****1-18 credit(s), max credits 18, 1 completion allowed; prereq Upper div or grad student or instr consent ;****Instructor:** Loh, Horace H**Description:** Student may contact the instructor or department for information.**PHCL 5110 Introduction to Pharmacology****A-F only, 3 credit(s); prereq Grad student or instr consent;****Instructor:** Campbell, Colin R**Description:** Student may contact the instructor or department for information.**PHCL 5211 Pharmacology****A-F only, 2 credit(s); prereq 5210 or instr consent;****Instructor:** Thayer, Stanley A**Description:** Student may contact the instructor or department for information.**PHCL 8200 Seminar: Selected Topics in Pharmacology****1 credit(s), max credits 8, 8 completions allowed; prereq 6112 or instr consent;****Instructor:** Walseth, Timothy F**Description:** Student may contact the instructor or department for information.**PHCL 8207 Seminar: Psychopharmacology****1 credit(s); prereq instr consent; Credit will not be granted if credit has been received for: NSC 8207;****Instructor:** Wilcox, George L**Description:** Student may contact the instructor or department for information.**PHCL 8217 Problems in Investigative Pharmacology****S-N only, 1 credit(s);****Instructor:** Loh, Horace H

Description: Student may contact the instructor or department for information.

PHCL 8320 Readings in Neurobiology

1-4 credit(s), max credits 4, 4 completions allowed; prereq instr consent ;

Instructor: Fairbanks,Carolyn Ann

Description: Student may contact the instructor or department for information.

Pharmacy

5-110 Weaver-Densford Hall

PHAR 1001 Orientation to Pharmacy

2 credit(s);

Instructor: Lounsbury,Jody Leigh

Description: Student may contact the instructor or department for information.

PHAR 1002 Health Sciences Terminology

2 credit(s);

Instructor: Philbrick,Ann M

Description: This self-study, unlimited enrollment course has no prerequisites. It provides undergraduate students with introductory knowledge of health sciences terminology through a programmed learning approach. Students learn how to analyze and build words by using combining forms, suffixes, and prefixes in a systematic manner. This working knowledge of the medical language serves as a basis for further course work in the health sciences and/or enhances job skills in a wide variety of fields. The mandatory course orientation is completed entirely online.

Course information is sent to registered students U of M email addresses shortly before, and/or on, the first day of classes each Fall semester, Spring semester, and 8-week Summer term. For more information on this flexible course, explore the course website and/or contact medterm@umn.edu or 612-624-7976.

Style: Self-study with regularly scheduled in person testing sessions

Grading: Average of scores for 4 exams and 4 quizzes

Exam Format: Multiple choice and true/false

PHAR 1003 Non-Prescription Medications and Self-Care:

Treating Minor Conditions

2 credit(s);

Instructor: Philbrick,Ann M

Description: This self-study, unlimited enrollment online course for undergraduate and professional students provides information related to nonprescription medications and appropriate self care. Knowledge gained empowers students to become informed consumers of over-the-counter medications and testing devices. Examples of course topics include vitamins, herbal products, pain relievers and cold medications. Students use WebVista to view audio-narrated presentations and download handout materials (also available for purchase). The required course orientation is completed online. Course information is sent to registered students U of M email addresses shortly before, and/or on, the first day of classes each Fall semester, Spring semester, and 8-week Summer term. For more information on this flexible course, explore the course website and/or contact selfcare@umn.edu or 612-624-7976.

Style: Self-study, with regularly scheduled in-person testing sessions

Grading: Average of 4 exam scores

PHAR 1004 Common Prescription Drugs and Diseases

2 credit(s);

Instructor: Philbrick,Ann M

Description: This self-study, unlimited enrollment online course for undergraduate and professional students informs about frequently prescribed medications (e.g., Lipitor) and the disease these medications are intended to treat (e.g., high cholesterol). Examples of course topics include: migraines, obesity, asthma, and pregnancy prevention. There is no textbook for this course.

Students use WebVista to view audio-narrated presentations, download handout materials (also available for purchase), and complete self tests in preparation for exams. The required course orientation is completed online. Course information is sent to registered students U of M email addresses shortly before, and/or on, the first day of classes each Fall semester, Spring semester, and 8-week Summer term. For more information on this flexible course, explore the course website and/or contact rxdx@umn.edu@umn.edu or 612-624-7976.

Style: self-study with regularly scheduled in-person testing sessions.

Grading: 5% reports/papers, 95% additional semester exams. average of 4 exam scores and case study. No final exam.

Exam Format: Multiple choice and True/False

PHAR 1005 Directed Studies: Introduction to Drug Therapies of Addiction: Medicine or Menace?

2 credit(s); prereq Medical terminology recommended;

Instructor: Lichtblau PhD,Leonard

Description: This completely online, self-study, unlimited enrollment course for undergraduate students provides an opportunity to explore the drug therapies (pharmacotherapy) of addiction. This course describes and explains the rationale behind drug regulation (what makes a drug controlled versus illicit versus simply prescription), the drug therapy strategies used to treat pain and how the concepts of tolerance, physical dependence, and addiction influence care, mechanisms of action of various illicit and prescription medications which are commonly misused (e.g. Ritalin), as well as the drug therapy of addiction (e.g. Methadone). This course is an opportunity for students to gain basic drug therapy knowledge in this topic area. If students enjoy this course, instructors are able to recommend additional, more advanced courses within this topic area. There is no textbook for this course. Students use WebVista to view audio-narrated presentations and download handout materials (also available for purchase). The required course orientation is completed online. Course information is sent to registered students U of M email addresses shortly before, and/or on, the first day of classes each Fall semester, Spring semester, and 8-week Summer term. Completion of a medical terminology course (such as Phar 1002) is recommended, but not required. Phar 1003, Phar 1004 are not prerequisites, nor a sequence; Phar 1003, 1004, and 1005 can be taken individually and in any order. For more information on this flexible course, explore the course website and/or contact dtherapy@umn.edu or 612-624-7976.

Style: 100% Web Based.

PHAR 3700 Fundamentals of Pharmacotherapy

A-F only, 3 credit(s); prereq Medical terminology; Credit will not be granted if credit has been received for: PHAR 3700;

Instructor: Pittenger,Amy Louise

Description: This is not a self-study course. While it is completely online, there are deadlines for assignments throughout the semester. No late registrations will be accepted. This course is designed for students pursuing careers that require them to have a basic familiarity with drug therapy. This course is offered totally online and will focus on recognition of brand and generic drug names, their therapeutic classes and common uses. In addition, participants will develop a basic proficiency in the use of drug information resources. With the competencies developed, participants of the course can expect to better review medication lists and work with health communication/documentation.

Style: This is not a self-study course. While it is completely online, there are deadlines for assignments throughout the semester. No late registrations will be accepted.

PHAR 3800 Pharmacotherapy for the Health Professions

A-F only, 3 credit(s); prereq Anatomy/physiology, enrolled [nursing or respiratory care] student;

Instructor: Lounsbury,Jody Leigh

Description: This online course provides enrolled nursing, radiation therapy and respiratory care students with a general understanding of drug therapy and its implications in patient care. (See course website for exact prereqs for each health

professional program.) There is no textbook for this course. Students use Vista to: view audio-narrated powerpoint presentations, download handout materials, complete self tests and cases and take exams./Course information is sent to the U of M email addresses of registered students shortly before, and/or on, the first day of classes each Fall and Spring term. For more information, see our course website or contact ptherapy@umn.edu or 612-624-7976.

Style: self-study with 2 scheduled in-person testing sessions

Grading: 20% reports/papers, 30% quizzes, 50% other evaluation. 2 exams

Exam Format: Multiple choice

PHAR 4200W Drugs and the U.S. Health Care System

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: PHAR 5200; Meets CLE req of Writing Intensive;

Instructor: Pittenger, Amy Louise

Description: Phar 4200W Drugs and the US Healthcare System 3 cr. Prereqs: none Instructor: Pittenger, PharmD, MS, Amy L. This is not a self-study course. This completely online course prepares students to be informed and responsible users of medications within the healthcare system and fulfills a writing intensive requirement. Medication development, regulation and distribution in the US are explored, along with the business, political and legal/ethical issues involved. Through weekly reading and writing assignments, participants identify and substantiate their own stances on issues. Requirements include short writing assignments (finished writing in the form of postings to a discussion board) each week, self-reflections, and a Final Project (5 pages) allowing exploration of issues of interest to you. For more information, see our course website <http://courses.pharmacy.umn.edu> or contact rxsystem@umn.edu or 612-624-7976.

Grading: 42% reports/papers, 30% reflection paper, 28% in-class presentation. in class participation is defined as postings to the course discussion board

Exam Format: there are no exams

PHAR 4294 Directed Study I for Undergraduates

A-F only, 1-6 credit(s), max credits 6;

Instructor: Panyam PhD, Jayanth

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); prereq [Grad or professional] student; Credit will not be granted if credit has been received for: PHAR 4200W;

Instructor: Pittenger, Amy Louise

Description: Phar 5200 Drugs and the US Healthcare System 3 cr, Prereqs: graduate student or permission of instructor Instructors: Pittenger, PharmD, MS, Amy L. This online course prepares students to be informed and responsible participants in debates related to medications within the U.S. healthcare system. Medication development, regulation and distribution in the US are explored, along with the business, political and legal/ethical issues involved. Through weekly reading and writing assignments, participants identify and substantiate their own stances on issues. Requirements include short writing assignments (finished writing in the form of postings to a discussion board) each week, self-reflections, and a Final Paper (10 pages) allowing exploration of issues of interest to you. For more information, see our course website <http://courses.pharmacy.umn.edu> or contact rxsystem@umn.edu or 612-624-7976.

Grading: 42% reports/papers, 30% reflection paper, 28% class participation. class participation is defined as discussion board postings

PHAR 5201 Health Sciences Applied Terminology **2 credit(s); prereq Basic knowledge of human anatomy/physiology;**

Instructor: Pittenger, Amy Louise

Description: This self-study, unlimited enrollment advanced course for undergraduates and professional students presumes

basic knowledge of human anatomy and physiology. Students learn medical terms as well as how to apply them when documenting and reporting patient care procedures. Gaining this working knowledge of the medical language serves as a basis for further course work in the health sciences and/or enhances job skills in a wide variety of fields. The mandatory course orientation is completed online. Course information is sent to registered students U of M email addresses shortly before, and/or on, the first day of classes each Fall semester, Spring semester, and 8-week Summer term. For more information on this flexible course, explore the course website and/or contact medterm@umn.edu or 612-624-7976.

Style: self-study with regularly scheduled in-person testing sessions.

Grading: 9% quizzes, 91% additional semester exams. Average of scores for 4 exams and 4 quizzes

PHAR 5700 Applied Fundamentals of Pharmacotherapy

A-F only, 3 credit(s); prereq [Medical terminology, admission to grad program] or instr consent ;

Instructor: Pittenger, Amy Louise

Description: Prerequisite: Medical Terminology and admitted to a graduate program (or permission of instructor) This course is designed for students pursuing careers that require them to have a basic familiarity with drug therapy. This course is offered totally online and will focus on recognition of brand and generic drug names, their therapeutic classes and common uses. In addition, participants will develop a basic proficiency in the use of drug information resources. With the competencies developed, participants of the course can expect to better review medication lists and work with health communication/documentation. As compared to Phar 3700, Phar 5700 participants will complete a multimedia project on a drug-related topic of their choosing, in addition to completing additional learning modules on subjects appropriate to their profession. This course also requires completion of 14 online modules, which include audio narrated presentations, study guides and self test questions.

PHAR 5800 Pharmacotherapy for the Health Professions

A-F only, 3 credit(s); prereq Nursing grad program;

Instructor: Pittenger, Amy Louise

Description: Student may contact the instructor or department for information.

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 Core;

Instructor: STAFF

Description: Have you ever heard an argument that you knew wasn't any good, but you didn't have the tools you needed to show what was wrong with it? This course will give you those tools. We will look at many different kinds of arguments and we will identify the patterns of good and bad arguments. You will learn a method for describing and analyzing these patterns so that you will be able to evaluate even very complicated arguments in a straightforward way. Armed with these abilities you will be able to diagnose the problems with faulty arguments and you will be better equipped to come up with excellent arguments of your own. Your writing will become clearer, better argued, and more forceful. And most of all, you will become a clearer and more reasonable thinker. Logic cannot teach you what to think, but it will teach you how to think, and thinking logically is a crucial skill for you as a student and a citizen.

PHIL 1002W Introduction to Philosophy

4 credit(s); Credit will not be granted if credit has been received for: PHIL 1006W; Meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive;
Instructor: Sawyer, Nate

Description: Student may contact the instructor or department for information.

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 Other Humanities Core; meets CLE req of Writing Intensive; Instructor: STAFF

Description: Are all human actions selfish and only selfish? What response should we make when people act badly? Are forgiveness and mercy genuine moral virtues? What is the moral value of personal attachments such as love and friendship? In this course you learn what ethics is by exploring these and related questions. You also become acquainted with such standard ethical theories as act and rule utilitarianism and Kantianism..

PHIL 1004W Introduction to Political Philosophy

4 credit(s); Credit will not be granted if credit has been received for: PHIL 1004V; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive; Instructor: Doyle, Tom

Description: Student may contact the instructor or department for information.

PHIL 1005 Scientific Reasoning

4 credit(s); prereq [1st or 2nd] yr student or instr consent ; Credit will not be granted if credit has been received for: PHIL 1005H; Instructor: Love, Alan C

Description: Every day we are bombarded by information derived from scientific research on issues such as genetic engineering and global warming. These claims are directly related to technologies that shape our modern society (e.g., genetically modified food and modes of transportation), and are also central components of contentious public policy discussions. Sometimes the claims appear contradictory, such as those about nutritional benefits: are red wine and chocolate really good for us? What makes claims about these topics 'scientific'? What is the form of the reasoning that supports them? How does 'science' relate to 'technology'? How can we make informed evaluations of scientific claims and their technological outcomes in order to participate knowledgeably in our society's political process and make the best choices in our everyday life? This course addresses these questions (and more) through an introductory analysis of the nature of scientific reasoning. We will evaluate characteristics of theoretical, causal, and statistical hypotheses by exploring a variety of case studies from past and present scientific research. Along the way we will apply our discoveries to contested domains such as reports about extraterrestrials or astrological inference and consider models of decision making that inform our choices about the use of technology, especially when we lack or are unable to secure relevant scientific information. This course is designed for students of all majors with an interest in the topic.

Style: 80% Lecture, 20% Discussion.
Grading: 25% final exam, 24% reports/papers, 24% quizzes, 1% attendance, 2% class participation, 24% problem solving. Attendance/Class participation percentages pertain to discussion sections, not lectures

Exam Format: Short answer

PHIL 1005H Scientific Reasoning

4 credit(s); prereq [1st or 2nd] yr honors student or instr consent ; Credit will not be granted if credit has been received for: PHIL 1005; Instructor: Love, Alan C

Description: Every day we are bombarded by information derived from scientific research on issues such as genetic engineering and global warming. These claims are directly related to technologies that shape our modern society (e.g., genetically modified food and modes of transportation), and are also central components of contentious public policy discussions. Sometimes the claims appear contradictory, such as those about nutritional benefits: are red wine and chocolate really good for

us? What makes claims about these topics 'scientific'? What is the form of the reasoning that supports them? How does 'science' relate to 'technology'? How can we make informed evaluations of scientific claims and their technological outcomes in order to participate knowledgeably in our society's political process and make the best choices in our everyday life? This course addresses these questions (and more) through an introductory analysis of the nature of scientific reasoning. We will evaluate characteristics of theoretical, causal, and statistical hypotheses by exploring a variety of case studies from past and present scientific research. Along the way we will apply our discoveries to contested domains such as reports about extraterrestrials or astrological inference and consider models of decision making that inform our choices about the use of technology, especially when we lack or are unable to secure relevant scientific information. This course is designed for students of all majors with an interest in the topic.

Style: 80% Lecture, 20% Discussion.

Grading: 25% final exam, 24% reports/papers, 24% quizzes, 1% attendance, 2% class participation, 24% problem solving. Attendance/Class participation percentages pertain to discussion sections, not lectures

Exam Format: Short answer

PHIL 1007 Introduction to Political Philosophy Practicum

1 credit(s); prereq Concurrent registration is required (or allowed) in 1004W; Meets CLE req of Citizenship/Publ Ethics Theme;

Instructor: Doyle, Tom

Description: Student may contact the instructor or department for information.

PHIL 1910W Topics: Freshman Seminar: What's So Great About Classical Music?

A-F only, 3 credit(s); prereq freshman; 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 3001W General History of Western Philosophy: Ancient Period

4 credit(s); Meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive;

Instructor: Peterson, Sandra Lynne

Description: The course will study the beginnings of philosophy in the Western world. The ancient Greek philosophers to be studied include Heraclitus, Parmenides, Gorgias, Socrates, Plato, Aristotle, and Sextus Empiricus. The course will reflect on some of the answers those thinkers gave to such questions as 'What is there?', 'What can we know about it?' and 'What should we do about it?' In studying these philosophers, we will also consider the question what they thought philosophy was. The course is for both majors and non-majors. Readings will be some fragments of the PreSocratics, several dialogues of Plato's, selections from Aristotle's writings, and Sextus Empiricus' 'Outlines of Scepticism'.

Style: 5% Lecture, 95% Discussion.

Grading: 80% reports/papers, 20% class participation.

PHIL 3201 Free Will and Responsibility

3 credit(s); prereq One 1xxx course in philosophy;

Instructor: Frank, Matthew Alan

Description: Student may contact the instructor or department for information.

PHIL 3301 Environmental Ethics

4 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Environment Theme;

Instructor: Monahan,Liam M

Description: Student may contact the instructor or department for information.

PHIL 3302W Moral Problems of Contemporary Society

4 credit(s); Credit will not be granted if credit has been received for: PHIL 3322W; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive;

Instructor: Stoner,Ian M

Description: Student may contact the instructor or department for information.

PHIL 3305 Medical Ethics

4 credit(s);

Instructor: Hopkins,Jasper

Description: The course deals with a number of typical problems encountered in the area of medical ethics--problems related to brain death, the persistent vegetative state, partial-birth abortion, informed consent, confidentiality, organ donation and retrieval, patients' rights, physician-assisted suicide, medical futility, human and animal research, medical errors, health-care rationing, managed care, involuntary commitment, forcible treatment, cloning, genetic enhancement, and so on. Attendance is required. There will be three examinations, each covering a different part of the course.

Style: 85% Lecture, 15% Discussion.

Grading: Each exam counts for approximately one-third of the semester grade.

Exam Format: varies

PHIL 3307 Social Justice and Community Service

4 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Cultural Diversity Theme;

Instructor: Wallace,John R

Description: This course explores four questions: What is good learning (good education)? What is good work (or what is vocation)? What is a good life? What is a good society? The method of inquiry used in the course is philosophical. It is alert to noticing and bringing into the open hidden assumptions and presuppositions. The course will use an approach to learning which goes by various names: ?circle of inquiry,? ?circle of culture,? ?community of inquiry,? "learning circles." This is an approach to learning in which a group learns collaboratively by (i) each member contributing his or her own voice and ideas, and listening to the voices and ideas of others in the group, and (ii) inviting into the circle and listening to other voices--the voices of writers or speakers who by virtue of life experience and thoughtfulness contribute to the inquiry which is centered in the in-class circle of inquiry. A further essential aspect of the approach to learning in the course is that each student in the course will do work in the community to meet human needs for at least three hours per week throughout the semester. This course carries 4 credits and meets two of the CLE theme requirements: Citizenship/Public Ethics and Cultural Diversity.

Style: 15% Lecture, 85% Student Presentation.

Grading: 50% reflection paper, 50% class participation.

PHIL 3311W Introduction to Ethical Theory

4 credit(s); Meets CLE req of Writing Intensive;

Instructor: Mason,Michelle N

Description: What reason, if any, is there to do what morality requires? Why care if our actions are morally good or bad, right or wrong, display a virtue or a vice? And might not the factors that contribute to our behaving in one way versus another be, in any case, beyond our control -- leaving attitudes such as guilt, resentment, and blame without any rational foundation? Such questions are among those that contemporary moral theory tries to answer. In this course, we will study what some contemporary philosophers answer to such questions and ourselves reflect on the philosophical problems raised by such topics as: the rationality of morality, the character of moral deliberation and motivation, the nature of moral responsibility, and the significance of moral attitudes toward ourselves and others. In

doing so, we will focus on work that views the study of ethical thought, action, and attitudes as requiring a better understanding of their specifically practical rational grounding. Our ultimate aim will be to assess the theoretical reasons these philosophers offer in defense of their answers to our practical questions and, where we find them lacking, to try out some answers of our own.

Among the contemporary authors we will read are: Bernard Williams, David Gauthier, Christine Korsgaard, T. M. Scanlon, P. F. Strawson, Warren Quinn, Philippa Foot, and John McDowell.

PHIL 3521 Philosophy of Religion

3 credit(s); prereq credit will not be granted if credit already received for: Phil 4521;

Instructor: Hopkins,Jasper

Description: If theological claims are not empirical hypotheses, then what cognitive status do they have? Is there a satisfactory answer to Hume's attack on the credibility of belief in miracles? What is the strongest argument against the claim that God exists? The strongest argument in favor of this claim? Is theism a reasonable belief, irrespective of whether it is a true belief? These and cognate questions are explored in the course. There will be three in-class examinations, each over a different portion of the course. ATTENDANCE REQUIRED.

Style: 85% Lecture, 15% Discussion.

PHIL 3601W Scientific Thought

4 credit(s); prereq One course in philosophy or natural science; Meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive;

Instructor: Waters,C. Kenneth

Description: This course is concerned with the nature of scientific thought and inquiry. We shall read works on philosophical issues about science written by philosophers, scientists, and historical and sociological observers of the sciences. We will motivate the philosophical issues by examining the debate between evolutionary biologists and those who argue that applying the true methods of science would support creationism, not evolution. We will study accounts of the methods of science and the nature of scientific objectivity, examine strange theories yielded from applying these methods to various domains (physical, biological, and social) and consider how seriously and how literally these theories should be taken.

Style: 66% Lecture, 34% Discussion.

Grading: 10% mid exam, 20% final exam, 50% reports/papers, 20% class participation. Attendance is required. Students are allowed three unexcused absences. Each additional unexcused absence will lower the student's course grade by 1/3 letter grade per absence.

PHIL 3602 Science, Technology, and Society

A-F only, 3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme;

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 3993 Directed Studies

1-3 credit(s), max credits 6, 6 completions allowed; prereq instr consent, dept consent, college consent;

Instructor: STAFF

Description: Students may contact the instructor or department for information.

PHIL 4040 Rationalists

3 credit(s), max credits 6; prereq 3005 or instr consent ;

Instructor: Lewis, Douglas E

Description: The Amsterdam Jewish community banished the twenty-four year old Benedict (originally Baruch) de Spinoza for his supposed impiety in 1656. Thirty Calvinist synods of the Netherlands had condemned him for his alleged blasphemous Theological-Political Treatise (1670) by 1676. Understandably he decided to wait to have his main work The Ethics (1677) published after his death. Three and a half centuries later Spinoza's views still excite controversy, as you will learn from our study of his (a) interpretation of scripture, (b) plea for freedom of thought and expression, and (c) argument for the unity of God and nature, thought and body, freedom and necessity, reason and emotion, and morality and happiness. Join me as we examine this important philosophy in the context of that of his contemporaries Anne Conway, Rene Descartes, and Gottfried Leibniz. Both non-philosophy and philosophy majors are welcome.

Style: 33% Lecture, 67% Discussion.

Grading: 80% reports/papers, 20% class participation.

PHIL 4105W Epistemology

A-F only, 3 credit(s); prereq 1001 or instr consent; Meets CLE req of Writing Intensive;

Instructor: Hanks, Peter William

Description: Epistemology is the theory of knowledge. It is concerned with questions like: What is knowledge? What is the extent of our knowledge? Do we have knowledge of the external physical world? What is skepticism about knowledge? Are there good arguments for skepticism? If so, how should we respond to these arguments? We'll address these and related questions through the study of historical and contemporary texts.

PHIL 4325 Education and Social Change

A-F only, 4 credit(s); Credit will not be granted if credit has been received for: PHIL 5323; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Cultural Diversity Theme;

Instructor: Wallace, John R

Description: This course focuses on a family of approaches to education that has shown promise in moving societies in several parts of the world toward greater justice, democracy, peace-mindedness, self-understanding and environmental responsibility. This family of approaches is known by various names, including ?popular education, ? ?democratic education? and ?participatory education.?. The course integrates a seminar, focusing on theory, with a practicum at various places in the Twin Cities, including the Jane Addams School for Democracy, the Southside Family Charter School, the Franklin Library, the Minneapolis Public Libraries Conversation Circles and other places where democratic education is being practiced. The

purpose is to provide students a theory-rich apprenticeship in democratic education, an apprenticeship that weaves together first-hand field participation at a democratic education site with the study of theories about and case studies of democratic education. A student will emerge from the course with an understanding of the theory of democratic education, with an appreciation of contexts in which this approach to education has been used in various parts of the world, with a practical understanding of what it takes to function as a democratic educator and to design and facilitate democratic education settings. This course counts toward two liberal education theme requirements: Cultural Diversity and Citizenship and Public Ethics. The course carries 4 credits.

Style: 15% Lecture, 70% Discussion, 15% Service Learning.

Grading: 50% reflection paper, 50% class participation.

PHIL 4607 Philosophy of the Biological Sciences

3 credit(s); prereq Courses in [philosophy or biology] or instr consent ;

Instructor: Waters, C. Kenneth

Description: Student may contact the instructor or department for information.

PHIL 4615 Minds, Bodies, and Machines

3 credit(s); prereq one course in philosophy or instr consent ;

Instructor: Owens, Joseph I

Description: Our concern is with the nature of mind with alleged differences between mind and body, and with a number of recent attempts to integrate mind into the natural order. This course has three parts. In part A, we discuss some traditional conceptions of mind and body and how these have come under attack from materialists and behaviorists. In part B, we examine the view of mind that is dominant in contemporary cognitive theory. This view has two components: first, it incorporates the notion that representation is central, that having a mind is primarily having a representational system--being able to represent one's environment and being able to operate on such representations to infer, to plan action, etc. Second, certain well known systems exhibit this kind of representational capacity--computers--and so they provide us with a new model of what it is to have a mind. To have a mind is to satisfy a certain kind of very powerful program. In a sense, we are no more than sophisticated automata, and if one wants to understand the working of such an automaton one studies its program. To gain some real understanding of such phenomena as vision, linguistic understanding, try to design a program for a system so that it, too, can be said to see and understand. Our final part consists of an examination of Wittgenstein's later philosophy, the most radical challenge to all traditional and contemporary theories of mind.

Style: 75% Lecture, 25% Discussion.

Grading: 100% reports/papers.

PHIL 4993 Directed Studies

1-3 credit(s), max credits 6, 6 completions allowed; prereq instr consent, dept consent, college consent;

Instructor: STAFF

Description: Student may contact the instructor or department for information.

PHIL 5040 Rationalists

3 credit(s), max credits 6; prereq 3005 or instr consent ;

Instructor: Lewis, Douglas E

Description: The Amsterdam Jewish community banished the twenty-four year old Benedict (originally Baruch) de Spinoza for his supposed impiety in 1656. Thirty Calvinist synods of the Netherlands had condemned him for his alleged blasphemous Theological-Political Treatise (1670) by 1676. Understandably he decided to wait to have his main work The Ethics (1677) published after his death. Three and a half centuries later Spinoza's views still excite controversy, as you will learn from our study of his (a) interpretation of scripture, (b) plea for freedom of thought and expression, and (c) argument for the unity of God and nature, thought and body, freedom and necessity, reason and emotion, and morality and happiness. Join me as we examine this important philosophy in the context of that of his

contemporaries Anne Conway, Rene Descartes, and Gottfried Leibniz. Both non-philosophy and philosophy majors are welcome.

Style: 33% Lecture, 67% Discussion.

PHIL 5201 Symbolic Logic I

4 credit(s); prereq 1001 or instr consent ;

Instructor: Cook,Roy Thomas

Description: Student may contact the instructor or department for information.

PHIL 5993 Directed Studies

1-3 credit(s), max credits 6, 6 completions allowed; prereq instr consent, dept consent, college consent;

Instructor: STAFF

Description: Student may contact the instructor or department fo information.

PHIL 8081 Seminar: History of Philosophy--Ancient

Philosophers

3 credit(s);

Instructor: Peterson,Sandra Lynne

Description: The course will consider Socrates, Plato, and Aristotle. A background question will be: what does each of these ancient philosophers think philosophy is? The focusing question of the course will be: what exactly, according to each of these ancient philosophers, is the question and answer conversation called "dialectic" and what does it have to do with philosophy? We will get our view of Socrates from his portrayal in Plato?s works, including the Apology, Euthyphro, Laches and Theaetetus. We will arrive at our understanding of Plato by considering his portrayal of Socrates and other characters. We will study parts of Aristotle?s Topics, which is a collection of rules for a certain kind of dialectic, and parts of Aristotle?s Metaphysics, especially his discussion of the law of non-contradiction.

PHIL 8210 Seminar: Logical Theory

3 credit(s), max credits 6; prereq [5201, 5205] or instr consent;

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; prereq 4310 or 4320 or 4330 or instr consent;

Instructor: Mason,Michelle N

Description: Although there is a long tradition of philosophical writing about love (consider, for example, Plato?s Phaedrus and Symposium, Aristotle?s writings on philia, and so on), the topic has not received serious treatment in contemporary analytic philosophy until fairly recently. In large part, renewed philosophical interest in love has arisen in the context of its relevance for questions in the philosophy of action (e.g., Frankfurt) and in moral theory (e.g., Velleman). The seminar will present an intensive survey of the best of recent work on love, with an eye toward its relevance to broader questions of interest to students of the philosophy of action and of moral theory. Among the questions the instructor is most interested to press is the question of whether recent philosophical attempts to reconcile the (apparently) arational features of love with the conviction that there are normative reasons for love (such that, love for one?s child, for example, is appropriate whereas love for one?s lawn is not) can succeed while retaining a conception of love as the arresting emotion that it is.

Physical Education

220 Cooke Hall

PE 1004 Diving: Springboard

OPT No Aud, 1 credit(s); prereq 1007 or equiv or instr consent;

Instructor: Zagaria,Jim

Description: Fundamentals of diving. Proper mechanics/techniques to ensure safety. Technical/numerical aspects. Lecture, participatory testing.

PE 1007 Beginning Swimming

OPT No Aud, 1 credit(s);

Instructor: Novotny,Jessica Lynn

Description: Introduction to basic aquatic safety, fundamentals of swimming and hydrodynamics. Principles of hydrodynamics and stroke mechanics; five basic strokes; basic rescue techniques with use of pool equipment; hydrotherapy for disabilities and other conditions, opportunities for competitive activities, lifetime enjoyment of aquatics.

PE 1007 Beginning Swimming

OPT No Aud, 1 credit(s);

Instructor: Hamilton,Maya

Description: Introduction to basic aquatic safety, fundamentals of swimming and hydrodynamics. Principles of hydrodynamics and stroke mechanics; five basic strokes; basic rescue techniques with use of pool equipment; hydrotherapy for disabilities and other conditions, opportunities for competitive activities, lifetime enjoyment of aquatics.

PE 1007 Beginning Swimming

OPT No Aud, 1 credit(s);

Instructor: Franklin,Ayanna N

Description: Introduction to basic aquatic safety, fundamentals of swimming and hydrodynamics. Principles of hydrodynamics and stroke mechanics; five basic strokes; basic rescue techniques with use of pool equipment; hydrotherapy for disabilities and other conditions, opportunities for competitive activities, lifetime enjoyment of aquatics.

PE 1012 Beginning Running

OPT No Aud, 1 credit(s);

Instructor: Eaton,Lois M

Description: Fundamentals of running. Completing a 5K race. Benefits of running. Appropriate apparel/equipment. Principles of running. Injury prevention. Road racing rules. Nutrition, hydration.

PE 1014 Conditioning

OPT No Aud, 1 credit(s);

Instructor: Brown,Scott

Description: Student may contact the instructor or department for information.

PE 1014 Conditioning

OPT No Aud, 1 credit(s);

Instructor: Mikl,Cody Lee

Description: Fundamentals of personal fitness. Principles of fitness; health and motor skill components of fitness; principles of training/conditioning programs; nutrition; weight control; common fitness injuries; motivation and consistency in fitness programs; stress management.

PE 1014 Conditioning

OPT No Aud, 1 credit(s);

Instructor: Kelly,Jackie

Description: Student may contact the instructor or department for information.

PE 1014 Conditioning

OPT No Aud, 1 credit(s);

Instructor: Pacl,Bryan Christopher

Description: Student may contact the instructor or department for information.

PE 1014 Conditioning

OPT No Aud, 1 credit(s);

Instructor: Norris,Alyssa Lynne

Description: Student may contact the instructor or department for information.

PE 1015 Weight Training**OPT No Aud, 1 credit(s);****Instructor:** Brown,Scott**Description:** Student may contact the instructor or department for information.**Description:** Fencing fundamentals, including basic foil techniques, movement, a general overview of fencing as a recreational sport and an Olympic sport, and the history of fencing.**PE 1015 Weight Training****OPT No Aud, 1 credit(s);****Instructor:** Mikl,Cody Lee**Description:** Introduction to weight training. Basic aspects of weight training including exercise selection and technique, charting workouts, program design, nutritional considerations, and safety.**PE 1034 Judo****OPT No Aud, 1 credit(s);****Instructor:** Crone,Tom**Description:** The judo class instructs students in the basic skills of throwing, grappling (matwork), choking and arm lock techniques, and falling skills. These are the basic skills used in contest judo, and also have personal defense application of a very realistic and practical nature. Students are also given an appreciation of the evolution of judo from Jiu-Jitsu, and they learn the fundamental rules and scoring of contest. Action videos are used both for instruction of techniques and appreciation of contests. The principles of judo and its philosophy as they apply to daily life enhancement, are also covered.**Style:** 5% Lecture, 5% Discussion. Physical instruction of judo techniques and skill application.**Grading:** 15% mid exam, 20% final exam, 65% class participation.**Exam Format:** Matching, multiple choice, true/false**PE 1015 Weight Training****OPT No Aud, 1 credit(s);****Instructor:** Franklin,Ayanna N**Description:** Student may contact the instructor or department for information.**PE 1015 Weight Training****OPT No Aud, 1 credit(s);****Instructor:** Norris,Alyssa Lynne**Description:** Student may contact the instructor or department for information.**PE 1035 Karate****OPT No Aud, 1 credit(s);****Instructor:** Fusaro,Robert L**Description:** This course will introduce the student to Japanese Shotokan Karate (traditional karate); a style of karate that is natural and functional. Students will learn proper posture and methods to develop power and control utilizing feet, legs, and hips. The principal of body dynamics, which Shotokan Karate is noted for, will enable a person of 100 pounds or less to develop power capable of defending themselves against a person of greater size and weight. Shotokan Karate is a non-contact martial art in which no protective gear or gloves of any type is worn. Therefore, control is essential. Men, women, and children can participate in this exhilarating martial art without fearing for their well-being. Structural foundation is essential for developing a delivery system for blocking, kicking, and punching, techniques which are basic elements of self-defense. These movements will be reviewed throughout the entire semester. A portion of the latter half of the course will be devoted to application of these basic techniques. Purchase of GI uniform is encouraged; GI uniform is available through the instructor at a cost of \$35.**Style:** 15% Discussion. training; 5% exams**Grading:** 20% mid exam, 70% final exam, 10% other evaluation. Attendance**Exam Format:** Mid-term: 20 short multiple choice questions; Final: physical test on basic movements worked on during the semester**PE 1016 Posture and Individual Exercise****OPT No Aud, 1 credit(s);****Instructor:** Lemler,Lisa Lynn**Description:** Good posture techniques, individual exercises, fitness concepts, and mental techniques. Specific overall sound body and mind techniques to include flexibility exercises, cardiovascular fitness, resistance training, nutrition management, weight control, stress management, and self-thought.**PE 1029 Handball****OPT No Aud, 1 credit(s);****Instructor:** Hiber,Matthew Frank**Description:** This course has been designed as an introductory level activity program for handball players. Its intent is to familiarize students with the rules of handball and teach the fundamental skills of this challenging sport. Daily activities will focus on entry-level drills, playing games, and learning appropriate handball etiquette. Students will be expected to purchase handball gloves, handballs, and protective eyewear. There will be a \$35 equipment fee.**Style:** 10% Lecture. skills and activities**Grading:** 10% mid exam, 10% final exam, 80% class participation.**Exam Format:** One T/F test and one short answer test**PE 1029 Handball****OPT No Aud, 1 credit(s);****Instructor:** Carlson,James Earl**Description:** Hand and eye coordination, footwork in practice and game conditions, and skills and strategies of service and rally for the court sport handball (four-wall version). Novice to intermediate levels of play accommodated.**PE 1036 Racquetball****OPT No Aud, 1 credit(s);****Instructor:** Vollum,Matthew Jay**Description:** Fundamentals of racquetball, including equipment; safety and etiquette; terminology; game rules of singles, doubles, and cutthroat; grips; basic strategies; serves and shots.**PE 1031 Sabre Fencing****OPT No Aud, 1 credit(s);****Instructor:** Sobalvarro,J Roberto**Description:** Basic sabre techniques, movement, an overview of fencing as a recreational sport and an Olympic sport, and the history of fencing.**PE 1036 Racquetball****OPT No Aud, 1 credit(s);****Instructor:** Johnson,Matthew Lloyd**Description:** Fundamentals of racquetball, including equipment; safety and etiquette; terminology; game rules of singles, doubles, and cutthroat; grips; basic strategies; serves and shots.**PE 1032 Badminton****OPT No Aud, 1 credit(s);****Instructor:** Vollum,Matthew Jay**Description:** Student may contact the instructor or department for information.**PE 1036 Racquetball****OPT No Aud, 1 credit(s);****Instructor:** Hoffman,Mitchell Lee**Description:** Fundamentals of racquetball, including equipment; safety and etiquette; terminology; game rules of singles, doubles, and cutthroat; grips; basic strategies; serves and shots.**PE 1033 Foil Fencing****OPT No Aud, 1 credit(s);****Instructor:** Sobalvarro,J Roberto**PE 1037 Squash Racquets****OPT No Aud, 1 credit(s);****Instructor:** Stever,John Ball

Description: This course has been designed as an introductory-level activity program for novice squash players. Its intent is to familiarize the individual with the play, rules, equipment, and courts of the game. Weekly lessons will focus on entry-level technique as well as safety on and around the court. Upon completion of this course, students will: 1) have learned the mechanics of the basic squash strokes; 2) understand positioning and movement on the court; 3) understand and apply the international rules for play; 4) be able to describe the basic dimensions and markings of an international squash rackets court; and 5) be able to select and care for equipment. The texts for the course include the well-illustrated *Squash: Steps to Success* by Yarrow (1997), and the "International Squash Rules" as published by the World Squash Association on the Internet.

Style: 15% Lecture, 10% Film/Video. 75% on court for drills and games. Much of lecture is also on court.

Grading: 20% mid exam, 20% attendance, 60% other evaluation. On court evaluation of improvement on basic techniques

Exam Format: Multiple choice, T/F

PE 1038 Beginning Tennis

OPT No Aud, 1 credit(s);

Instructor: Kneisl, Jerry

Description: Fundamental strokes, including forehands, backhands, volleys, lobs, overheads, and serves; introduction to singles and doubles play; terminology, rules, and etiquette.

PE 1038 Beginning Tennis

OPT No Aud, 1 credit(s);

Instructor: Sanny, John H

Description: Fundamental strokes, including forehands, backhands, volleys, lobs, overheads, and serves; introduction to doubles play; terminology, rules, and etiquette.

PE 1043 Beginning Horse Riding

OPT No Aud, 1 credit(s);

Instructor: Benner, Jaime Ashley

Description: Techniques, styles, and communication of English riding. Students will learn riding techniques at a walk, trot, canter, and jumping.

PE 1044 Self-Defense

OPT No Aud, 1 credit(s);

Instructor: Bendickson, Anita Olivia

Description: Course consists of learning basic physical and psychological skills to help the student recognize and act in crisis and pre-crisis situations: to avoid or stop physical assault, harassment, irritating and/or dangerous situations and encounters. Physical skills include basic striking, kicking, shifting (learning to move out of the way), blocking, and specialized techniques for specific situations. Psychological skills include learning to analyze self-defense situations, i.e., what strengths does the student have, what vulnerabilities does his/her opponent have and what opportunities are there to apply those strengths and use those vulnerabilities. This includes developing an understanding of force, eye contact and strong body language, and basic verbal skills such as assertiveness. Class work will include drills in physical techniques to develop coordination and strength, practice time in hitting and kicking bags, many controlled situations with partners (including floor, weapon, and multiple attacker situations) to teach basic skills of analysis and application.

Style: 10% Discussion.

Grading: 50% final exam, 20% reports/papers, 30% class participation.

Exam Format: Physical demonstration of basic skills plus student's choice of one from each of the following four categories (partner exercises): 1) basic blocking, 2) response to a grab from the front, 3) response to a grab from behind, 4) one special situation

PE 1044 Self-Defense

OPT No Aud, 1 credit(s);

Instructor: Brandl, Mary Kathryn

Description: Course consists of learning basic physical and

psychological skills to help the student recognize and act in crisis and pre-crisis situations: to avoid or stop physical assault, harassment, irritating and/or dangerous situations and encounters. Physical skills include basic striking, kicking, shifting (learning to move out of the way), blocking, and specialized techniques for specific situations. Psychological skills include learning to analyze self-defense situations, i.e., what strengths does the student have, what vulnerabilities does his/her opponent have and what opportunities are there to apply those strengths and use those vulnerabilities. This includes developing an understanding of force, eye contact and strong body language, and basic verbal skills such as assertiveness. Class work will include drills in physical techniques to develop coordination and strength, practice time in hitting and kicking bags, many controlled situations with partners (including floor, weapon, and multiple attacker situations) to teach basic skills of analysis and application.

Style: 10% Discussion.

Grading: 50% final exam, 20% reports/papers, 30% class participation.

Exam Format: Physical demonstration of basic skills plus student's choice of one from each of the following four categories (partner exercises): 1) basic blocking, 2) response to a grab from the front 3) response to a grab from behind 4) one special situation.

PE 1045 Rock Climbing

OPT No Aud, 1 credit(s); prereq Good general health, no [neck or back] problems;

Instructor: Tracy, Shawn Patrick

Description: Safety, knots, equipment, techniques, and anchor systems used in climbing. Course includes all necessary equipment. Held at St. Paul Gym climbing wall.

PE 1045 Rock Climbing

OPT No Aud, 1 credit(s); prereq Good general health, no [neck or back] problems;

Instructor: Hoffman, Mitchell Lee

Description: This course starts from square one and covers safety, knots, climbing techniques and basic anchor building. A comprehensive introduction to indoor rock climbing. Much of the time is spent actively climbing on the wall. Active participation and in class activities are the bulk of the grading and curriculum. Course is held at the St. Paul Gymnasium Climbing Wall.

PE 1046 Tae Kwon Do

OPT No Aud, 1 credit(s);

Instructor: Kim, Il Keun

Description: Fundamentals of Tae Kwon Do. Principles of martial arts, body mechanics of Tae Kwon Do, practical self-defense.

PE 1048 Bowling

OPT No Aud, 1 credit(s);

Instructor: Schmid, Michael F

Description: Fundamentals, including stance, approach and delivery, scoring, bowling terminology, and etiquette.

PE 1048 Bowling

OPT No Aud, 1 credit(s);

Instructor: Jor'dan, Azizah J

Description: Fundamentals, including stance, approach and delivery, scoring, bowling terminology, and etiquette.

PE 1048 Bowling

OPT No Aud, 1 credit(s);

Instructor: Pacl, Bryan Christopher

Description: Fundamentals, including stance, approach and delivery, scoring, bowling terminology, and etiquette.

PE 1053 Ice Skating

OPT No Aud, 1 credit(s);

Instructor: Vollum, Matthew Jay

Description: Basic turns, basic stops, balance techniques, and various other skills from both the forward and backward positions. Equipment, safety issues, ice skating terminology.

PE 1055 Golf**OPT No Aud, 1 credit(s);****Instructor:** Chung,Vinh Khai**Description:** Proper grip, stance, ball address, swing, club selection, psychological management, rules, and etiquette. Basic instruction in analyzing, assisting with, and coaching golf.**PE 1059 Track and Field****OPT No Aud, 1 credit(s);****Instructor:** Warren,Clinton J**Description:** Student may contact the instructor or department for information.**PE 1067 Basketball****OPT No Aud, 1 credit(s);****Instructor:** Pacl,Bryan Christopher**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:** Fundamentals of Cricket. Laws of Cricket, bowling/batting techniques, competitive/recreational Cricket opportunities.**PE 1072 Soccer****OPT No Aud, 1 credit(s);****Instructor:** Adamcsek,Viktor Istvan**Description:** Fundamentals of soccer including sporting behavior both on and off the field, game rules, soccer terminology, participation and competition drills, fundamental soccer skills, practical instruction in strategy.**PE 1072 Soccer****OPT No Aud, 1 credit(s);****Instructor:** Wurst,Katie**Description:** Fundamentals of soccer including sporting behavior both on and off the field, game rules, soccer terminology, participation and competition drills, fundamental soccer skills, practical instruction in strategy.**PE 1074 Beginning Volleyball****OPT No Aud, 1 credit(s);****Instructor:** Shingles,Kori Elizabeth**Description:** Basic skills, team play, rules, officiating, and strategy.**PE 1074 Beginning Volleyball****OPT No Aud, 1 credit(s);****Instructor:** Thul,Chelsey Marie**Description:** Student may contact the instructor or department for information.**PE 1075 Ice Hockey****OPT No Aud, 1 credit(s); prereq 1053 or equiv or instr consent;****Instructor:** Fitzgerald,John S**Description:** Offensive/defensive strategies/techniques, goal tending, scrimmage play. Students need their own equipment.**PE 1107 Intermediate Swimming****OPT No Aud, 1 credit(s); prereq 1007 or equiv, proficient ability to swim 100 meters or instr consent;****Instructor:** Franklin,Ayanna N**Description:** Intermediate swimming skills. Fundamentals of swimming and hydrodynamics.**PE 1205 Scuba and Skin Diving****OPT No Aud, 1 credit(s); prereq Ability to swim 400 yds comfortably or instr consent ;****Instructor:** Karl,Robert J**Description:** This course is available to all students and prospective students (through CCE) at the University. The course consists of classroom instruction and practical pool work.

SCUBA Certification is not included in the course. The third part necessary for certification (4-open water dives) can be arranged through the instructor at an additional charge. Students may also decide to get a referral letter and take their openwater dives at numerous locations around the world. Classroom subjects include the physics and physiology of diving, equipment,decompression,dive planning,emergencies,and the marine environment. Some topics require mandatory attendance. Pool work covers all necessary applications to diving. All students must be comfortable being in the water, and must be able to swim a minimum of 400 yards. Students should plan on attending all class and pool sessions,as quizzes will be administered throughout the course and all pool work is built on previously learned skills. All evening students and all day school students whose classes start on Thursdays, must come to the first class with appropriate swimming attire (i.e. swimming suits). Evening classes have a 2-hr. lecture period followed by 2 hrs. of pool work. Day classes have lectures on Tuesdays and pool work on Thursdays. Please check the website <http://SuperiorExpeditions.com> for forms and notes for requirements and limitations for SCUBA diving. There will be a \$95 course fee.

Style: 50% Lecture, 50% Laboratory.**Grading:** 33% final exam, 33% quizzes, 33% class participation.**Exam Format:** multiple choice

Physical Medicine and Rehabilitation

500 Boynton Health Service (Box 297 Mayo)

PMED 8200 Physical Medicine and Rehabilitation Service**1-15 credit(s), max credits 15, 1 completion allowed; prereq enrolled in PMed residency training program;****Instructor:** Dykstra,Dennis Dale**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 6002 Ethics in Physical Therapy****S-N only, 1 credit(s), max credits 2;****Instructor:** Di Fabio,Richard P**Description:** Student may contact the instructor or department for information.**PT 6213 Clerkship I****A-F only, 2 credit(s); prereq Registered PT student;****Instructor:** Lojovich,Jeanne Marie**Description:** Student may contact the instructor or department for information.**PT 6215 Clerkship III****A-F only, 1 credit(s), max credits 2, 1 completion allowed; prereq Registered PT student;****Instructor:** Lojovich,Jeanne Marie**Description:** Student may contact the instructor or department for information.**PT 6220 Clinic Volunteer****No Grade, 1 credit(s), max credits 6, 6 completions allowed;****Instructor:** Lojovich,Jeanne Marie**Description:** Student may contact the instructor or department

for information.

PT 6231 Clinical Biomechanics

A-F only, 5 credit(s); prereq Intro calculus, physics, registered PT student; Credit will not be granted if credit has been received for: PMED 5231;

Instructor: Ludewig,Paula M

Description: Student may contact the instructor or department for information.

PT 6280 Clinical Assessment

A-F only, 4 credit(s); prereq Registered PT student;

Instructor: Glasoe,Ward M

Description: Student may contact the instructor or department for information.

PT 6281 Scientific Foundations I: Theory of Therapeutic Exercise

A-F only, 3 credit(s); prereq Registered PT student; Credit will not be granted if credit has been received for: RTT 5281;

Instructor: Lowe,Dawn Annette

Description: Student may contact the instructor or department for information.

PT 6283 Musculoskeletal I

A-F only, 7 credit(s); prereq enrolled PT student;

Instructor: Anderson,Kathleen

Description: Student may contact the instructor or department for information.

PT 6293 Research Design in Physical Therapy

A-F only, 4 credit(s); prereq Registered 2nd yr PT student;

Instructor: Di Fabio,Richard P

Description: Student may contact the instructor or department for information.

PT 6295 Clinical Internship I

S-N only, 10 credit(s); prereq Registered 3rd yr PT student;

Instructor: Lojovich,Jeanne Marie

Description: Student may contact the instructor or department for information.

PT 6296 Clinical Internship II

S-N only, 10 credit(s); prereq Registered PT Student;

Instructor: Lojovich,Jeanne Marie

Description: Student may contact the instructor or department for information.

PT 6340 Human Growth and Development

A-F only, 3 credit(s); prereq Registered PT student;

Instructor: Carey,James Robert

Description: Student may contact the instructor or department for information.

PT 7000 Neurological Theory and Neuroscience in Physical Therapy

A-F only, 1-6 credit(s), max credits 6, 6 completions allowed; prereq Admitted to Transitional Doctor of Physical Therapy Program;

Instructor: Lojovich,Jeanne Marie

Description: Student may contact the instructor or department for information.

PT 7009 Capstone Experience

A-F only, 3 credit(s); prereq Must be a DPT student;

Instructor: Dorsey,Lisa L

Description: Student may contact the instructor or department for information.

PT 8131 Research Seminar I

A-F only, 1 credit(s); prereq Grad PT major;

Instructor: Carey,James Robert

Description: Student may contact the instructor or department for information.

PT 8131 Research Seminar I

A-F only, 1 credit(s); prereq Grad PT major;

Instructor: Snow MD,PhD,LeAnn M

Description: Student may contact the instructor or department for information.

PT 8131 Research Seminar I

A-F only, 1 credit(s); prereq Grad PT major;

Instructor: Di Fabio,Richard P

Description: Student may contact the instructor or department for information.

PT 8131 Research Seminar I

A-F only, 1 credit(s); prereq Grad PT major;

Instructor: Thompson PhD,LaDora V

Description: Student may contact the instructor or department for information.

PT 8131 Research Seminar I

A-F only, 1 credit(s); prereq Grad PT major;

Instructor: Ludewig,Paula M

Description: Student may contact the instructor or department for information.

PT 8131 Research Seminar I

A-F only, 1 credit(s); prereq Grad PT major;

Instructor: Lowe,Dawn Annette

Description: Student may contact the instructor or department for information.

PT 8131 Research Seminar I

A-F only, 1 credit(s); prereq Grad PT major;

Instructor: Kukulka,Carl G

Description: Student may contact the instructor or department for information.

PT 8131 Research Seminar I

A-F only, 1 credit(s); prereq Grad PT major;

Instructor: Nuckley,David J

Description: Student may contact the instructor or department for information.

PT 8193 Research Problems in Physical Therapy

A-F only, 1-7 credit(s), max credits 7, 7 completions allowed; prereq Grad PT major;

Instructor: 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; prereq Grad PT major;

Instructor: Snow MD,PhD,LeAnn M

Description: Student may contact the instructor or department for information.

PT 8193 Research Problems in Physical Therapy

A-F only, 1-7 credit(s), max credits 7, 7 completions allowed; prereq Grad PT major;

Instructor: Kimberley,PT, PhD,Teresa Jacobson

Description: Student may contact the instructor or department for information.

PT 8193 Research Problems in Physical Therapy

A-F only, 1-7 credit(s), max credits 7, 7 completions allowed; prereq Grad PT major;

Instructor: Di Fabio,Richard P

Description: Student may contact the instructor or department for information.

PT 8193 Research Problems in Physical Therapy

A-F only, 1-7 credit(s), max credits 7, 7 completions allowed; prereq Grad PT major;

Instructor: Thompson PhD,LaDora V

Description: Student may contact the instructor or department for information.

for information.

PT 8193 Research Problems in Physical Therapy

A-F only, 1-7 credit(s), max credits 7, 7 completions allowed;
prereq Grad PT major;
Instructor: Ludewig, Paula M
Description: Student may contact the instructor or department for information.

PT 8193 Research Problems in Physical Therapy

A-F only, 1-7 credit(s), max credits 7, 7 completions allowed;
prereq Grad PT major;
Instructor: Kukulka, Carl G
Description: Student may contact the instructor or department for information.

PT 8193 Research Problems in Physical Therapy

A-F only, 1-7 credit(s), max credits 7, 7 completions allowed;
prereq Grad PT major;
Instructor: Nuckley, David J
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); prereq 1 yr high school algebra; Meets CLE req of Environment Theme; meets CLE req of Physical Science/Lab Core; meets CLE req of Writing Intensive;
Instructor: STAFF

Description: This course addresses current issues of the relationship between energy use and the environment by starting with the fundamental physics principles of force and energy, and demonstrating how these concepts apply to Electricity and Magnetism, Thermodynamics, Chemical Physics and Nuclear Power generation. These principles are applied to specific applications by examining topics such as power production, acid rain and fuel resources. The consequences of fundamental physics on public policy will also be discussed in this context. Math skills at the level of high school algebra are assumed. The accompanying laboratory is a series of short experiments which illustrate the concepts as they are presented in class.

PHYS 1011 Physical World

A-F only, 3 credit(s); prereq 1 yr high school algebra;
Instructor: Cassola, Robert L
Description: Student may contact the instructor or department for information.

PHYS 1101W Introductory College Physics I

4 credit(s); prereq High school algebra, plane geometry, trigonometry; primarily for students interested in technical areas. Credit will not be granted if credit received for: 1107, 1201W, 1301W, 1401V; Meets CLE req of Physical Science/Lab Core; meets CLE req of Writing Intensive;
Instructor: STAFF

Description: This is the first part of a course sequence designed to prepare you for work in your field by: having solid conceptual understanding of the way the real world works based on a few fundamental principles of physics; being able to solve realistic problems using logical reasoning and 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 1107 Introductory Physics Online I

4 credit(s); prereq High school algebra, plane geometry, trigonometry; Meets CLE req of Physical Science/Lab Core;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

PHYS 1201W Introductory Physics for Biology and Pre-medicine I

5 credit(s); prereq [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 Science/Lab Core; 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 1281 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); prereq 1201W; Credit will not be granted if credit has been received for: PHYS 1302W; Meets CLE req of Physical Science/Lab Core; meets CLE req of Writing Intensive;
Instructor: STAFF

Description: This is the continuation of physics 1201W designed primarily for students majoring in the biological sciences or preparing for medical school. This is not a survey course of all physics but requires an in-depth understanding of fundamental principles and their application. A course in calculus equivalent to Math 1272, 1272 or 1282 taken previously or simultaneously is required. Students should have a working knowledge of derivatives and integrals as well as all of the mathematics skills used in 1201W. The course emphasizes an understanding of the fundamental principles of physics and their use in solving quantitative problems of the type found in biological applications. The second semester involves the study of the optics, electrical circuits, the properties of the electric and magnetic force, and nuclear processes relevant to biological systems. A required laboratory illustrates the application of the concepts and problem solving skills taught in this course to the real world. It will also emphasize technical communications skills. A discussion section gives the opportunity to discuss your conceptual understanding and your problem solving skills by practicing working problems with other students. The laboratory

and discussions sections will emphasize collaborative problem solving as a powerful learning tool and as a preparation for work in your profession.

PHYS 1301W Introductory Physics for Science and Engineering I

4 credit(s); prereq Concurrent registration is required (or allowed) in Math 1271 or Concurrent registration is required (or allowed) in Math 1371 or Concurrent registration is required (or allowed) in Math 1571; Credit will not be granted if credit has been received for: PHYS 1201W; Meets CLE req of Physical Science/Lab Core; meets CLE req of Writing Intensive;

Instructor: STAFF

Description: This is the first of a three semester introductory course in physics for students in sciences and engineering. 1301W/1302W, 2303 or 2503 is designed to prepare you for work in your field by: building a solid conceptual understanding of fundamental principles of physics, and their applications; applying those principles to new situations, using logical reasoning and quantitative problem-solving skills; learning to communicate technical information effectively. To achieve these goals, this course requires you to understand the material in depth. 1301W will emphasize the study of mechanical systems, beginning with the description of motion of interacting objects, the forces that they exert on each other and the quantities that are conserved in those interactions. A laboratory is included to allow you to apply physical principles to the real world in a carefully controlled environment, and will also emphasize technical communications skills. A discussion section will give you the opportunity to clarify your conceptual understanding, and practice your problem-solving skills, by practicing working problems with other students. This is a calculus-based course, and students will be expected to use the basic concepts of differential and integral calculus, as well as algebra and trigonometry.

PHYS 1302W Introductory Physics for Science and Engineering II

4 credit(s); prereq 1301W, Concurrent registration is required (or allowed) in Math 1272 or Math 1372 or Math 1572; Credit will not be granted if credit has been received for: PHYS 1202W; Meets CLE req of Physical Science/Lab Core; meets CLE req of Writing Intensive;

Instructor: STAFF

Description: This is the 2nd of a 3 semester intro course in physics for students in science and engineering. 1302W emphasizes the application of the physical principles learned in 1301W to electrical and magnetic interactions. The course is designed to prepare you for work in your field by: having solid conceptual understanding of the way the real world works based on a few fundamental principles of physics; being able to solve realistic problems using logical reasoning and quantitative problem solving skills; applying those physics concepts and problem solving skills to new situations; and learning to effectively communicate technical information. To achieve these goals, this course requires you to understand the material in depth. Emphasis will be given to the application of physics principles to real-life situations, and will use problems designed to simulate such situations. This course assumes a good working knowledge of the concepts and skills in 1301W. Because of the nature of this material, this course will be more abstract and mathematical than 1301W. A lab is included to allow you to apply both the concepts and problem solving skills to the real world. It will also emphasize technical communications skills. A discussion section will give you the opportunity to discuss your conceptual understanding and practice your problem solving skills with other students.

PHYS 1401V Honors Physics I

4 credit(s); prereq honors student and permission of University Honors Program; Credit will not be granted if credit has been received for: PHYS 1201W; Meets CLE req of Physical Science/Lab Core; meets CLE req of Writing Intensive;

Instructor: Marshak, Marvin L

Description: This is the first of a three semester introductory course in physics for students in the IT Honors Program. It is designed to prepare you for work in your field by: having a solid conceptual understanding of the way the real world works based on a few fundamental principles of physics; being able to solve realistic problems using logical reasoning and quantitative problem solving skills; applying those physics concepts and problem solving skills to new situations; and learning to effectively communicate technical information. This course requires you to understand the material in depth; it will go at a faster pace than Physics 1301W 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. 1401V will emphasize the application of physics to mechanical systems beginning with the description of motion of interacting objects and the forces that they exert on each other. Conservation ideas will also be used to describe the effect of the interaction on systems of objects. These fundamental ideas will be applied to complex systems such as continuous material, fluids, and gasses. This course assumes a background equivalent to high school physics and familiarity with calculus. Students should have the ability and desire to use mathematics not yet introduced in math class. A laboratory is included to allow you to apply physical principles to the real world in a carefully controlled environment, and will also emphasize technical communications skills. A discussion section will give you the opportunity to clarify your conceptual understanding, and practice your problem-solving skills, by practicing working problems with other students.

PHYS 1905 Freshman Seminar: THE PHYSICS SUPERHEROES

A-F only, 2 credit(s), max credits 6; prereq Fr;

Instructor: Kakalios, James

Description: Student may contact the instructor or department for information.

PHYS 1905 Freshman Seminar: How Things Work

A-F only, 2 credit(s), max credits 6; prereq Fr;

Instructor: Dahlberg, E Dan

Description: Student may contact the instructor or department for information.

PHYS 1910W Freshman Seminar: Writing Intensive: How Common is Extraterrestrial Life

A-F only, 2 credit(s), max credits 3, 1 completion allowed; prereq freshman; Meets CLE req of Writing Intensive;

Instructor: Halley, J Woods

Description: We will study the various scientific issues that arise in considering the question of whether extraterrestrial intelligence is likely to exist in our galaxy and whether humans are likely to detect it. We will read a series of articles by distinguished experts on various aspects of the question, leading to an analysis of various factors in the 'Drake equation,' which provides a model for estimating the number of existing civilizations in the galaxy. Estimates of these factors involve huge uncertainties, but something definite can be said about most of them and the discussion ranges over a great many disciplines including physics, astronomy, biology, chemistry, archeology, and sociology. There will be a brief discussion of the quality of the evidence that extraterrestrials have been observed as claimed by the UFO community. This will occasion a discussion of what constitutes scientific evidence.

PHYS 2201 Introductory Thermodynamics and Statistical Physics

3 credit(s); prereq [1302W or 1402V], [Concurrent registration is required (or allowed) in MATH 1272 or MATH 1372 or MATH 1572H];

Instructor: Hanany, Shaul

Description: Introduction to thermodynamics, including its underlying statistical nature. Topics will include Kinetic Theory, Thermodynamics, Phase Transitions, and Boltzmann statistics. Applications explored will include the behavior of gases and the operation of heat engines.

PHYS 2311 Modern Physics

4 credit(s); prereq [1302 or 1402], Chem 1022, Math 2243;

Instructor: Cassola, Robert L

Description: Student may contact the instructor or department for information.

PHYS 2403H Honors Physics III

4 credit(s); prereq 1402V, honors student and permission of University Honors Program; Credit will not be granted if credit has been received for: PHYS 2303;

Instructor: Walsh, Thomas Francis

Description: This is the conclusion of a three semester introductory course in physics for students in the IT Honors program. It is designed to prepare you for work in your field by: having 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. The pace is faster than Physics 2503 and at a higher mathematical level. The emphasis will always be on the application of physics principles to interesting situations, and the problems will be designed to simulate such situations. 2403H will emphasize the applications of physics that have been important in the 20th century, including electromagnetic waves, optics, special relativity and quantum theory. This course assumes a good working knowledge of the concepts and skills in 1402V. A discussion section will give you the opportunity to discuss your conceptual understanding and practice your problem solving skills.

PHYS 2503 Physics III: Intro to Waves, Optics, and Special Relativity

4 credit(s); prereq 1302W, [MATH 1272 or MATH 1372 or MATH 1572H]; Credit will not be granted if credit has been received for: PHYS 2303;

Instructor: Huang, Cheng-Cher

Description: Student may contact the instructor or department for information.

PHYS 3071W Laboratory-Based Physics for Teachers

4 credit(s); prereq No IT credit, college algebra; designed for students intending to be education majors; Meets CLE req of Physical Science/Lab Core; meets CLE req of Writing Intensive;

Instructor: Olsen, Steven Robert

Description: This course is intended to provide an experience based introduction to a selection of fundamental physics concepts especially chosen to be useful for potential elementary school teachers. These fundamental concepts include the interaction between objects and the description of that interaction by energy, forces, and fields. These ideas will be applied to electricity and magnetism as well as optics and heat. The course is activity-based and collaboration-oriented with four major goals: (1) to help you construct a set of physics ideas that you can apply to explain phenomena that are intrinsically interesting at a level appropriate to an elementary school science curriculum; (2) to help you understand the process of doing science; (3) to give you practice and confidence in doing science, and (4) to link the development of the course material to your own learning. The teaching and learning strategies used in this course will be valuable and appropriate for use in your teaching career. No specific background in science or mathematics is assumed in this course.

PHYS 3071W Laboratory-Based Physics for Teachers

4 credit(s); prereq No IT credit, college algebra; designed for students intending to be education majors; Meets CLE req of Physical Science/Lab Core; meets CLE req of Writing Intensive;

Instructor: Campbell, Charles E

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 4001 Analytical Mechanics

4 credit(s); prereq [2303 or 2601 or Chem 3501 or Chem 3502], two sems soph math;

Instructor: Cronin-Hennessy, Daniel P

Description: The course emphasizes a mathematically sophisticated reformulation of Newtonian mechanics. This course develops the skills of solving the difficult problems that arise in complex mechanical systems using advanced mathematical techniques. Applications include oscillators, orbital dynamics, and rigid body dynamics. This course serves as an introduction to the Lagrangian formulation of dynamics. Mathematics beyond the prerequisite mathematics courses are developed as required. The knowledge of physics learned in Physics 2303, 2403, 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 4051 Methods of Experimental Physics I

5 credit(s); prereq 2605 or equiv lab experience or instr consent;

Instructor: Mans, Jeremiah M

Description: This course is the first of a two semester sequence on the techniques used in a modern physics laboratory. Most of the work will be done in a laboratory. In this semester you will gain experience using analog and digital electronics by building various circuits that are in wide-spread use. You will also learn about acquiring signals and interfacing them to a computer. Basic familiarity with computers is assumed. Programming languages such as C++ will be used and skill in using them can be gained either through independent study during the course or from previous experience. Emphasis is also given to refining the techniques of writing scientific research reports suitable for publication. The course is designed for science and engineering students who have successfully completed Physics 2605 or the equivalent and assumes the knowledge and skills developed in that course. This course is an excellent introduction to modern laboratory techniques for upper division and graduate students in various scientific or technological fields. It is a required class for Physics and Astrophysics Majors.

Style: 25% Lecture, 75% Laboratory.

Grading: 14% mid exam, 11% final exam, 60% reports/papers, 10% class participation, 5% other evaluation. See syllabus for final grade calculation.

Exam Format: 6 to 8 problems.

PHYS 4051 Methods of Experimental Physics I

5 credit(s); prereq 2605 or equiv lab experience or instr consent;

Instructor: Noireaux, Vincent

Description: This course is the first of a two semester sequence on the techniques used in a modern physics laboratory. Most of the work will be done in a laboratory. In this semester you will gain experience using analog and digital electronics by building various circuits that are in wide-spread use. You will also learn about acquiring signals and interfacing them to a computer. Basic familiarity with computers is assumed. Programming languages such as C++ will be used and skill in using them can be gained either through independent study during the course or from previous experience. Emphasis is also given to refining the techniques of writing scientific research reports suitable for publication. The course is designed for science and engineering

students who have successfully completed Physics 2605 or the equivalent and assumes the knowledge and skills developed in that course. This course is an excellent introduction to modern laboratory techniques for upper division and graduate students in various scientific or technological fields. It is a required class for Physics and Astrophysics Majors.

Style: 25% Lecture, 75% Laboratory.

Grading: 14% mid exam, 11% final exam, 60% reports/papers, 10% class participation, 5% other evaluation. See syllabus for final grade calculation.

Exam Format: 6 to 8 problems.

PHYS 4101 Quantum Mechanics

4 credit(s); prereq [2303 or 2601 or Chem 3502], two sems soph math;

Instructor: Kubota, Yuichi

Description: This is an intermediate course in Quantum mechanics (typically for undergraduate seniors). It will focus on the Schrodinger Equation in one and three dimensions, the quantum mechanical treatment of angular momentum and spin. The course will also introduce approximation methods such as Perturbation Theory. The Variational Technique and applications such as scattering may be covered if time permits.

Style: 75% Lecture, 25% Discussion.

Grading: 30% mid exam, 20% final exam, 20% problem solving, 30% other evaluation. discussion participation

Exam Format: Quantitative problems and qualitative questions

PHYS 4201 Statistical and Thermal Physics

3 credit(s); prereq 2601;

Instructor: Goldman, Allen M

Description: This course is an introduction to the statistical nature of the behavior of matter both from the classical and quantum point of view. The knowledge and skills learned in Physics 2303, 2402, or 2503 as well as those from Physics 2601 are assumed. Mathematics beyond the prerequisite mathematics courses are developed as required. Topics addressed include: the enumeration of states both classically and quantum mechanically, entropy and free energy, partition functions, phase transitions, and the behavior of gasses and solids.

PHYS 4501 Experimental Project

1-5 credit(s), max credits 5, 1 completion allowed; prereq 4052, instr consent;

Instructor: STAFF

Description: This course is an independent experimental project designed by a student in collaboration with a faculty member.

PHYS 4960H Honors Seminar

OPT No Aud, 1 credit(s), max credits 2; prereq Upper div honors, instr consent ;

Instructor: Dahlberg, E Dan

Description: Student may contact the instructor or department for information.

PHYS 5001 Quantum Mechanics I

4 credit(s); prereq 4101 or equiv or instr consent ;

Instructor: Mandic, Vuk

Description: Student may contact the instructor or department for information.

PHYS 5011 Classical Physics I

4 credit(s); prereq 4001, 4002 or instr consent;

Instructor: Lysak, Robert L

Description: This is the first semester of a two-semester sequence of Classical Physics, intended primarily for first-year graduate students in physics and astrophysics. Preparation at the level of Phys 4001-4002 is assumed. Material to be covered includes Classical Mechanics, emphasizing Lagrangian and Hamiltonian techniques to solve problems in orbital mechanics, rigid body motion, oscillations and nonlinear dynamics, as well as Electrostatics including dielectric materials.

Exam Format: problem solving

PHYS 5041 Mathematical Methods for Physics

4 credit(s); prereq 2601 or grad student;

Instructor: Halley, J Woods

Description: Student may contact the instructor or department for information.

PHYS 5072 Best Practices in College Physics Teaching

1-3 credit(s), max credits 5, 3 completions allowed;

Instructor: Kubota, Yuichi

Description: Student may contact the instructor or department for information.

PHYS 5201 Thermal and Statistical Physics

A-F only, 3 credit(s); prereq [[4101, 4201] or equiv] previous exposure to thermodynamics, introductory statistical physics;

Instructor: Valls, Oriol T

Description: Student may contact the instructor or department for information.

PHYS 5401 Physiological Physics

4 credit(s); prereq 1301 or 1401;

Instructor: Broadhurst, John Henry

Description: This is a fourteen week course, during which we shall cover chapters one through seven of the text (Intermediate Physics for Medicine and Biology, Hobbie et al 4th Edition). This implies that we shall spend approximately two weeks on each chapter. It is however intended that the course will be taught in a flexible manner, with more time devoted to certain topics, and less to others, so as to maximize the usefulness of the available time. A web questionnaire will be available in the first week to collect information about your individual interests. This means that you will need to skim over the first seven chapters of the book in the first week, and before the first class, you should have read the first chapter carefully. All required work will be conducted by e-mail and web access. A short problem set will be e-mailed to you at the end of weeks two, four, six, eight, ten, and twelve.

Style: 70% Lecture. Collaborative problem sets

Grading: 60% final exam, 40% problem solving.

Exam Format: Web based descriptive and quantitative

PHYS 5980 Introduction to Research Seminar

S-N only, 1 credit(s), max credits 3, 3 completions allowed; prereq Grad or upper div phys major;

Instructor: Kubota, Yuichi

Description: Student may contact the instructor or department for information.

PHYS 8001 Advanced Quantum Mechanics

3 credit(s); prereq 5002 or instr consent;

Instructor: Kapusta, Joseph I

Description: Student may contact the instructor or department for information.

PHYS 8012 Quantum Field Theory II

3 credit(s); prereq 8011 or instr consent;

Instructor: Peloso, Marco

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; prereq instr consent;

Instructor: Skillman, Evan D

Description: Student may contact the instructor or department for information.

PHYS 8500 Plan B Project

4 credit(s); prereq instr consent; may be taken once to satisfy Plan B master's project requirement; no cr toward PhD;

Instructor: Kubota, Yuichi

Description: Student may contact the instructor or department for information.

PHYS 8502 General Relativity and Cosmology II**3 credit(s); prereq 8501 or instr consent;****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:** Wygant,John R**Description:** Student may contact the instructor or department for information.**PHYS 8700 Seminar: Condensed Matter Physics****S-N only, 1 credit(s), max credits 6, 6 completions allowed; prereq instr consent;****Instructor:** Dahlberg,E Dan**Description:** Student may contact the instructor or department for information.**PHYS 8711 Solid-State Physics I****3 credit(s); prereq 4211, 5002 or instr consent;****Instructor:** Kamenev,Alex**Description:** Student may contact the instructor or department for information.**PHYS 8900 Seminar: Elementary Particle Physics****S-N only, 1 credit(s), max credits 6, 6 completions allowed;****Instructor:** Poling,Ronald A**Description:** Student may contact the instructor or department for information.**PHYS 8901 Elementary Particle Physics I****3 credit(s); prereq 8001 or instr consent;****Instructor:** Vainshtein,Arkady**Description:** Student may contact the instructor or department for information.**Physiology****6-125 Jackson Hall****PHSL 3051 Human Physiology****4 credit(s); prereq [BIOL 1009 or 1 yr college biol], 1 yr college chem;****Instructor:** Anderson,Lisa Carney**Description:** Human Physiology is a 4 credit class designed for science majors and pre-allied health sciences majors. This course covers basic science principles of cell transport, cell signaling and major organ systems (nerve, muscle, circulation, respiration, endocrine, renal, gastrointestinal, energy metabolism). Preparation in basic chemistry (two semesters) and biology (one semester) is strongly recommended. Three lecture sessions and one two-hour lab per week.**PHSL 3061 Principles of Physiology****4 credit(s); prereq 1 year college chem and physics and math through integral calculus;****Instructor:** Levitt,David George**Description:** Student may contact the instructor or department for information.**PHSL 3062W Research Paper for Physiology Majors****A-F only, 1 credit(s); prereq Concurrent registration is required (or allowed) in 3061, physiology major, 1 yr [college chem, physics], math through integral calculus; Meets CLE req of Writing Intensive;****Instructor:** Barnett,Vincent A**Description:** Student may contact the instructor or department for information.**PHSL 3063 Principles of Human Physiology****A-F only, 6 credit(s); prereq 1 yr [college chem, physics], math through integral calculus; Credit will not be granted if****credit has been received for: BMEN 3701; Meets CLE req of****Biological Sciences/Lab Core;****Instructor:** Levitt,David George**Description:** Student may contact the instructor or department for information.**PHSL 3095 Problems in Physiology****1-5 credit(s), max credits 20, 20 completions allowed; prereq concurrent enrollment in college physiology, instr consent;****Instructor:** Barnett,Vincent A**Description:** Student may contact the instructor or department for information.**PHSL 3701 Physiology Laboratory****A-F only, 2 credit(s); prereq Physiology major; Credit will not be granted if credit has been received for: BMEN 3701;****Instructor:** Iazzo PhD,Paul Anthony**Description:** Student may contact the instructor or department for information.**PHSL 4095 Honors Problems in Physiology****A-F only, 2-4 credit(s), max credits 4, 1 completion allowed; prereq Concurrent registration is required (or allowed) in 3061, physiology honors candidate, approval of director of undergrad studies in physiology;****Instructor:** Barnett,Vincent A**Description:** Student may contact the instructor or department for information.**PHSL 5061 Principles of Physiology for Biomedical Engineering****4 credit(s); prereq Biomedical engineering grad, one yr college chem and physics and math through integral calculus;****Instructor:** Levitt,David George**Description:** Student may contact the instructor or department for information.**PHSL 5094 Research in Physiology****1-5 credit(s), max credits 20, 20 completions allowed; prereq instr consent;****Instructor:** Barnett,Vincent A**Description:** Student may contact the instructor or department for information.**PHSL 5094 Research in Physiology****1-5 credit(s), max credits 20, 20 completions allowed; prereq instr consent;****Instructor:** Katz,Stephen A.**Description:** Student may contact the instructor or department for information.**PHSL 5095 Problems in Physiology****1-5 credit(s), max credits 20, 20 completions allowed; prereq instr consent;****Instructor:** Barnett,Vincent A**Description:** Student may contact the instructor or department for information.**PHSL 5095 Problems in Physiology****1-5 credit(s), max credits 20, 20 completions allowed; prereq instr consent;****Instructor:** Katz,Stephen A.**Description:** Student may contact the instructor or department for information.**PHSL 5115 Advanced Clinical Physiology I for Nurse Anesthetists****A-F only, 3 credit(s); prereq instr consent;****Instructor:** Anderson,Lisa Carney**Description:** Student may contact the instructor or department for information.**PHSL 5201 Computational Neuroscience I: Membranes and Channels**

3 credit(s); prereq calculus through differential equations; Credit will not be granted if credit has been received for: NSC 5201;
Instructor: Miller,Robert F
Description: Student may contact the instructor or department for information.

PHSL 5355 Directed Study: Humans in Extreme Environments
1-5 credit(s), max credits 25, 5 completions allowed; prereq [3061 or equiv], instr consent ;
Instructor: Koscheyev,Victor S
Description: Student may contact the instructor or department for information.

PHSL 5356 Research: Humans in Extreme Environments
1-5 credit(s), max credits 25, 5 completions allowed; prereq [3061 or equiv], instr consent ;
Instructor: Koscheyev,Victor S
Description: Student may contact the instructor or department for information.

PHSL 5700 Cell Physiology
A-F only, 4 credit(s); prereq [Two semesters of physics/chemistry, calculus, one semester of systems-level physiology] or instr consent ;
Instructor: Palmer,Melissa L
Description: Student may contact the instructor or department for information.

PHSL 5701 Physiology Laboratory
A-F only, 1-2 credit(s), max credits 2; prereq instr consent;
Instructor: Katz,Stephen A.
Description: Student may contact the instructor or department for information.

PHSL 8216 Selected Topics in Autonomic and Neuroendocrine Regulation
S-N only, 1 credit(s); Credit will not be granted if credit has been received for: NSC 8216;
Instructor: Engeland,William C
Description: Student may contact the instructor or department for information.

PHSL 8222 Central Regulation of Autonomic Function
A-F only, 3 credit(s); prereq NSC 5561 or instr consent; Credit will not be granted if credit has been received for: NSC 8222;
Instructor: Engeland,William C
Description: Student may contact the instructor or department for information.

Plant Biological Sciences

250 Biological Sciences

PBS 8081 Integrative Plant Biology: Connecting Molecules to Ecosystems
A-F only, 3 credit(s); prereq Plant biological sciences grad student or instr consent ;
Instructor: Mc Laughlin,David J
Description: Student may contact the instructor or department for information.

PBS 8900 Seminar
S-N only, 1-2 credit(s), max credits 4, 4 completions allowed;
Instructor: Anderson,Neil O.
Description: Student may contact the instructor or department for information.

PBS 8900 Seminar
S-N only, 1-2 credit(s), max credits 4, 4 completions allowed;
Instructor: Glazebrook,Jane
Description: Student may contact the instructor or department

for information.

PBS 8901 Preparation of Research Proposals
S-N only, 1 credit(s); prereq Plant biological sciences PhD student;
Instructor: Lefebvre,Paul A
Description: Student may contact the instructor or department for information.

PBS 8910 Journal Club
S-N only, 1 credit(s), max credits 4, 4 completions allowed;
Instructor: Silflow,Carolyn D.
Description: Student may contact the instructor or department for information.

PBS 8993 Directed Studies
1-5 credit(s), max credits 15, 15 completions allowed; prereq PBio grad student, instr consent ;
Instructor: Glazebrook,Jane
Description: Student may contact the instructor or department for information.

PBS 8994 Research
1-5 credit(s), max credits 10, 10 completions allowed; prereq PBio grad student, instr consent ;
Instructor: Glazebrook,Jane
Description: Student may contact the instructor or department for information.

Plant Biology

220 Biological Sciences Center

PBIO 4793W Directed Studies: Writing Intensive
S-N only, 1-7 credit(s), max credits 7, 7 completions allowed; prereq instr consent; Meets CLE req of Writing Intensive;
Instructor: STAFF
Description:

PBIO 4794W Directed Research: Writing Intensive
S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent , dept consent ; Meets CLE req of Writing Intensive;
Instructor: STAFF
Description:

PBIO 4993 Directed Studies
S-N only, 1-7 credit(s), max credits 7, 7 completions allowed; prereq instr consent;
Instructor: STAFF
Description: Contract between student and advisor required, plus department approval. Credits arranged.

PBIO 4994 Directed Research
S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent ;
Instructor: Olszewski,Neil E
Description: Student may contact the instructor or department for information.

PBIO 4994 Directed Research
S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent ;
Instructor: Weiblen,George D
Description: Student may contact the instructor or department for information.

PBIO 4994 Directed Research
S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent ;
Instructor: Gleason,Florence K
Description: Student may contact the instructor or department for information.

PBIO 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent ;
Instructor: Springer,Nathan Michael
Description: Student may contact the instructor or department for information.

PBIO 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent ;
Instructor: Mc Laughlin,David J
Description: Student may contact the instructor or department for information.

PBIO 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent ;
Instructor: Lefebvre,Paul A
Description: Student may contact the instructor or department for information.

PBIO 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent ;
Instructor: Marks,M David
Description: Student may contact the instructor or department for information.

PBIO 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent ;
Instructor: Biesboer,David D.
Description: Student may contact the instructor or department for information.

PBIO 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent ;
Instructor: Gantt,Steve
Description: Student may contact the instructor or department for information.

PBIO 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent ;
Instructor: Wick,Susan M
Description: Student may contact the instructor or department for information.

PBIO 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent ;
Instructor: Brambl,Robert Morgan
Description: Student may contact the instructor or department for information.

PBIO 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent ;
Instructor: Sifflow,Carolyn D.
Description: Student may contact the instructor or department for information.

PBIO 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent ;
Instructor: Ni,Min
Description: Student may contact the instructor or department for information.

PBIO 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent ;
Instructor: Ward,John M
Description: Student may contact the instructor or department

for information.

PBIO 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent ;
Instructor: VandenBosch,Kathryn A
Description: Student may contact the instructor or department for information.

PBIO 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent ;
Instructor: Gray,William M
Description: Student may contact the instructor or department for information.

PBIO 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent ;
Instructor: Tiffin,Peter L
Description: Student may contact the instructor or department for information.

PBIO 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent ;
Instructor: Sanderfoot,Anton
Description: Student may contact the instructor or department for information.

PBIO 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent ;
Instructor: Gibson,Sue
Description: Student may contact the instructor or department for information.

PBIO 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent ;
Instructor: Weinig,Cynthia
Description: Student may contact the instructor or department for information.

PBIO 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent ;
Instructor: Glazebrook,Jane
Description: Student may contact the instructor or department for information.

PBIO 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent ;
Instructor: Katagiri,Fumiaki
Description: Student may contact the instructor or department for information.

PBIO 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent ;
Instructor: Schmitt,Imke
Description: Student may contact the instructor or department for information.

PBIO 4994 Directed Research

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent ;
Instructor: Hegeman,Adrian D
Description: Student may contact the instructor or department for information.

PBIO 5301 Plant Genomics

3 credit(s); prereq [Intro course in genetics, intro course in biochemistry] or instr consent ; Credit will not be granted if

credit has been received for: PLPA 5301;

Instructor: Young, Nevin Dale

Description: Plant genomics is a course for graduate and advanced undergraduate students who are interested in recent discoveries in genomics and bioinformatics applied to the study of plants. Students learn strategies for structural and functional genomic analysis by exploring the genomes of model plant systems, comparative genomics, evolution of gene families, genome expression and genome restructuring. Students learn the fundamentals of sequence analysis, data-base searching and data-mining through computer labs and independent projects. Most class sessions consist of lectures, discussions, and small group activities. Prerequisites are an introductory course in genetics and biochemistry - or - consent of instructor.

Style: 60% Lecture, 20% Discussion, 20% Laboratory. Frequent small group activities and computer labs

Grading: 30% mid exam, 30% final exam, 15% special projects, 15% written homework, 10% class participation.

Exam Format: Approximately 10 short answer question plus one or two longer essay-type questions.

PBIO 5412 Plant Physiology

3 credit(s); prereq Biol 2022 or Biol 3002 or Biol 3007, Biol/BioC 3021 or BioC 4331;

Instructor: Gantt, Steve

Description: Plant Physiology 5412 is designed for advanced undergraduates and first year graduate students. The course is focused on physiological processes that are specific to plants. A background understanding of genetics and biochemistry is expected. Topics include mechanisms of plant water relations, vascular transport in the xylem and phloem, photosynthesis and respiration, responses to environmental stimuli such as drought, plant mineral nutrition and membrane transport, cell wall structure, plant growth and development including responses to light and hormones. Grades are based on four non-cumulative exams including the final exam.

Style: 100% Lecture.

Grading: 25% mid exam, 25% final exam, 50% other evaluation. two additional exams during the semester

Exam Format: Mostly short answer, some multiple choice, some problems solving.

PBIO 5412 Plant Physiology

3 credit(s); prereq Biol 2022 or Biol 3002 or Biol 3007, Biol/BioC 3021 or BioC 4331;

Instructor: Ni, Min

Description: Plant Physiology 5412 is designed for advanced undergraduates and first year graduate students. The course is focused on physiological processes that are specific to plants. A background understanding of genetics and biochemistry is expected. Topics include mechanisms of plant water relations, vascular transport in the xylem and phloem, photosynthesis and respiration, responses to environmental stimuli such as drought, plant mineral nutrition and membrane transport, cell wall structure, plant growth and development including responses to light and hormones. Grades are based on four non-cumulative exams including the final exam.

Style: 100% Lecture.

Grading: 25% mid exam, 25% final exam, 50% other evaluation. two additional exams during the semester

Exam Format: Mostly short answer, some multiple choice, some problems solving.

PBIO 5960 Special Topics: PBS Itasca Orientation

1-3 credit(s), max credits 18, 6 completions allowed;

Instructor: Olszewski, Neil E

Description: Student may contact the instructor or department for information.

PBIO 5960 Special Topics: Phylogenetic Analysis

1-3 credit(s), max credits 18, 6 completions allowed;

Instructor: Weiblen, George D

Description: Student may contact the instructor or department for information.

PBIO 5960 Special Topics: Genomics, Evolution and

Association Mapping

1-3 credit(s), max credits 18, 6 completions allowed;

Instructor: Young, Nevin Dale

Description: A special topics class sponsored by the Microbial and Plant Genomics Institute (MPGI) focusing on the application of genomics to explore contemporary evolution, population structure and association mapping. Class is organized around visits by experts from other institutions combined with readings and discussions led by MPGI faculty.

Plant Pathology

495 Borlaug Hall

PLPA 1005 Plants Get Sick Too

4 credit(s); Meets CLE req of Biological Sciences/Lab Core;

Instructor: Kurle PhD, James E.

Description: This course is an introductory survey of plant pathology presented in lectures, on the web, and in the laboratory. The student will develop a general understanding of: 1) the concepts and terminology used to describe and understand plant disease, 2) the major groups of plant pathogens, 3) the interaction of host and pathogen biology, crop ecology, and control measures with plant disease development, and 4) the role of plant disease in human affairs. Selected viruses, bacteria, fungi, nematodes that are pathogens of plants grown in Minnesota will be used to illustrate concepts presented in lectures. This material is integrated with materials and exercises presented in the laboratory. Supplementary readings will be available on library reserve. Particular emphasis is placed on the importance of plant diseases to human welfare and in human history. Course Objectives: Students will: 1) Become familiar with the agents that cause plant disease. 2) Understand the relationships of hosts, pathogens, and environment that determine the occurrence and severity of plant diseases. 3) Learn how plant diseases are managed or controlled. 4) Learn how plant diseases have affected humans both historically and in modern times. 5) Learn to identify a selection of plant diseases that occur commonly in Minnesota. 6) Learn basic laboratory techniques used to detect, identify and manipulate plant pathogens.

PLPA 3090 Research in Plant Pathology

1-4 credit(s), max credits 4, 1 completion allowed;

Instructor: STAFF

Description: Assignment of a special problem to undergraduates desiring an opportunity for independent research in plant pathology. The student determines the problem.

Style: 100% Laboratory.

Grading: 100% laboratory evaluation.

PLPA 4096 Professional Experience Program: Internship S-N only, 1-3 credit(s), max credits 6, 6 completions allowed; prereq COAFES undergrad, complete internship contract available in COAFES Career Services before registering; UC only;

Instructor: STAFF

Description: Supervised practicum professional experience in plant pathology. Practicum may be completed in government, higher education or private industry setting. Directed toward senior undergraduates.

Grading: 100% other evaluation. Job performance, self-evaluation

PLPA 5090 Issues in Plant Pathology

1-4 credit(s), max credits 4, 1 completion allowed;

Instructor: STAFF

Description: Current topics and research in plant pathology. Directed at undergraduates (junior and senior) as well as graduate students. Consult Class Schedule or department for current offering.

Style: 50% Lecture, 50% Discussion.

Grading: 100% special projects. depends on topic and instructor

PLPA 5102 Epidemiology and Genetics of Host-Parasite Interactions**A-F only, 3 credit(s); prereq [5201 or equiv], GCD 3022;****Instructor:** Kinkel,Linda Lee**Description:** Student may contact the instructor or department for information.**PLPA 5301 Plant Genomics****3 credit(s); prereq Intro course in genetics or instr consent ; Credit will not be granted if credit has been received for:****PBIO 5301;****Instructor:** Young,Nevin Dale**Description:** Plant genomics is a course for graduate and advanced undergraduate students who are interested in recent discoveries in genomics and bioinformatics applied to the study of plants. Students learn strategies for structural and functional genomic analysis by exploring the genomes of model plant systems, comparative genomics, evolution of gene families, genome expression and genome restructuring. Students learn the fundamentals of sequence analysis, data-base searching and data-mining through computer labs and independent projects. Most class sessions consist of lectures, discussions, and small group activities. Prerequisites are an introductory course in genetics and biochemistry - or - consent of instructor.**Style:** 60% Lecture, 20% Discussion, 20% Laboratory. Frequent small group activities and computer labs**Grading:** 30% mid exam, 30% final exam, 15% special projects, 15% written homework, 10% class participation.**Exam Format:** Approximately 10 short answer questions plus one or two longer essay-type questions.**PLPA 5999 Special Workshop in Plant Pathology****1-4 credit(s), max credits 4, 1 completion allowed;****Instructor:** STAFF**Description:** Special workshops involving current issues and/or techniques (experimental and laboratory) in plant pathology. Directed towards senior undergraduates and graduate students.**Style:** Depends on the nature of the workshop experience.**Grading:** 100% special projects. Depends on the nature of the workshop experience.**PLPA 8090 Advanced Procedures and Research in Plant Pathology****1-8 credit(s), max credits 8, 1 completion allowed;****Instructor:** Kinkel,Linda Lee**Description:** Student may contact the instructor or department for information.**PLPA 8102 Epidemiology and Genetics of Host-Parasite Interactions****A-F only, 3 credit(s); prereq 5201, GCD 3022;****Instructor:** Kinkel,Linda Lee**Description:** Student may contact the instructor or department for information.**PLPA 8200 Seminar****A-F only, 1 credit(s);****Instructor:** Szabo,Les J**Description:** Student may contact the instructor or department for information.**Polish****205 Folwell Hall****PLSH 3001 Intermediate Polish****5 credit(s); prereq 1102 or equiv; Credit will not be granted if credit has been received for: PLSH 4103;****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. Four textbooks are used: Oscar Swan's "Intermediate Polish," Alexander Schenker's "Fifteen Modern Polish Short Stories," and two books of

supplemental material developed by the instructor. All four textbooks are accompanied by high quality 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. Recitation and interactive activities.**Grading:** 30% final exam, 25% quizzes, 30% class participation, 5% laboratory evaluation, 10% other evaluation. final oral exam; note: class participation includes presentations**Exam Format:** fill in the blank, answer questions, translation, brief essays**PLSH 4103 Intermediate Polish****3 credit(s); prereq 4102, [fourth sem course in another language or grad student]; Credit will not be granted if credit has been received for: PLSH 3001;****Instructor:** Polakiewicz,Leonard Anthony**Description:** Student may contact the instructor or department for information.**Political Science****1414 Social Sciences Tower****POL 1001 American Democracy in a Changing World****4 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Social Science Core;****Instructor:** Gott,Katherine M**Description:** Without an understanding of its institutions, ideologies, and history, American politics can sometimes be viewed as chaotic and confusing. After developing that knowledge, a critical eye toward leaders, policy, and "spin" will allow students to better understand and participate in the political process. The hope and intent of the course is to make each student feel empowered to participate rather than to feel jaded or apathetic. Recent events have shown that Generation "Y", when it is involved, can have huge impacts on the political process.**Style:** 40% Lecture, 10% Film/Video, 40% Discussion, 10% Small Group Activities.**Grading:** 20% mid exam, 30% final exam, 40% reports/papers, 10% written homework.**POL 1001 American Democracy in a Changing World****4 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Social Science Core;****Instructor:** 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 Citizenship/Publ Ethics Theme; meets CLE req of Social Science Core;****Instructor:** Udani,Adriano A**Description:** This course intends to generate interest in

American politics. What are the values and identities that shape what it means to be American? What does it mean to act politically? Whose interests are and are not represented in the United States? Students will learn about the fundamental characteristics of American political institutions; the political parties and actors who administer these institutions; and the laws that establish the rules and norms by which the American people and their organizations must abide. Throughout the semester, students will engage in various learning activities in order to critically examine the political forces competing to influence the scope of the U.S. national agenda. The class will tie important political science works to current events and give particular attention to race, religion, class, gender, and citizenship.

Style: 60% Lecture, 5% Film/Video, 20% Discussion, 15% Small Group Activities.

Grading: 30% mid exam, 30% final exam, 30% reports/papers, 10% class participation.

POL 1019 Indigenous Peoples: A Global Perspective
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: AMIN 1002; Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core;

Instructor: Cothran III, Boyd Dean

Description: Student may contact the instructor or department for information.

POL 1025 Global Politics
4 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core;

Instructor: 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 distributional 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 International Perspect Theme; meets CLE req of Social Science Core;

Instructor: Leon, David Pak Yue

Description: This course introduces students to some of the basic concepts, processes, and issues in global politics. We will examine relevant theoretical frameworks, but the focus will be on their connection to substantive issues in today's globalizing world. The goal is for students to develop a systematic understanding of international relations in their political, economic, and social aspects. Readings will be drawn from scholarly and policy-oriented sources, as well as from the mass media from time to time. Some of the main themes that we will explore together in this course include: conventional, unconventional and asymmetric warfare, the contemporary global economic system, trade and security, the rise of international organizations, and the relationship between emerging states and industrialized countries. This course also serves as an introduction to Pol 3835, which has a more theoretical focus.

POL 1026 We and They: U.S. Foreign Policy
4 credit(s); Meets CLE req of International Perspect Theme;

Instructor: Sampson III, Martin Wright

Description: The course is a mixture of historical background,

examination of various processes and institutions that determine US foreign policy, and selected foreign policy issues that are important in fall 2009. The course objectives are that people leave the course (1) aware of how the US foreign policy process operates and aware of major, long-running debates about Congressional-Executive relationships in that process; (2) aware of the contours of public opinion as it relates to foreign policy; (3) conversant with major events and dates in the history of US foreign policy; and (4) able to think about how this knowledge relates to selected events of fall 2009 and beyond.

Style: 65% Lecture, 35% Discussion. Class attendance is important. Lectures and readings supplement each other.

Grading: 20% mid exam, 35% final exam, 35% reports/papers, 10% other evaluation. The course papers are based on readings assigned in the syllabus.

Exam Format: Combination essay and short answer. A handout sheet is provided a week in advance

POL 1054 Repression and Democracy Around the World
4 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core;

Instructor: Shively, W Phillips

Description: This course introduces political science through the comparative study of politics in various countries. There is a considerable emphasis on democracy and how it works -- including comparison and contrast with how politics works in nondemocratic regimes. We will look at all aspects of politics -- the nature of political power, how politics is lodged in the state, various ways to organize at the mass level and to govern, the nature of justice, etc. The class will consist of three lecture sessions a week. The course is appropriate for both majors and non-majors.

POL 1201 Political Ideas and Ideologies
4 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Social Science Core;

Instructor: Anderson, Joshua R

Description: What does it mean to be free? What is the proper relationship between the individual and the community? What is power and how should it be limited? How we answer these questions matters for how we think about politics and how we live our lives. This course offers students an introduction to three branches of political thought that have each sought to provide coherent answers to these questions. They are Republicanism, Liberalism, and Socialism, and though they do not exhaust the wide spectrum of political thought, each has appeared and reappeared over the course of Western history as various thinkers have grappled with questions of freedom, duty, and power. In this course we will consider a few of the most important formulations of these three "isms" in the writings of figures such as Plato, Aristotle, Thomas Hobbes, John Locke, Jean-Jacques Rousseau, and Karl Marx. Each of these thinkers is important not just because each produced excellent works of political theory, but also because their works have come to form part of the vocabulary of modern political discourse, both inside and outside of academic settings, making an understanding of their writings necessary for any understanding of contemporary politics.

Style: 50% Lecture, 40% Discussion, 10% Small Group Activities.

Grading: 30% reflection paper, 10% class participation. 60% analytical papers

POL 1201 Political Ideas and Ideologies
4 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Social Science Core;

Instructor: Vazquez-Arroyo, Antonio Y

Description: This course will introduce students to the study of major themes and problems in the history of western political theory. Political theory can be understood as a systematic/comprehensive inquiry on the foundation of collective life and the uses of collective power. From the Greeks on, reflection on the experience of political life has taken form in a variety of genres and modes of discourse. Each genre has placed different emphases in light of its own form as well as of the political experience and historical context in which the texts

written in it were produced. Accordingly, in this course we will pay particular attention to the genres of political theory and the centrality of form and content in the activity of political theorizing. In doing so, we will consider the traditional themes that have occupied the minds of thinkers working within this tradition of discourse. Among these themes are: justice, responsibility, violence, terror, authority, civil disobedience, partisanship, democracy, and power. Our selection of thinkers seeks to combine canonical figures of the western tradition with writers whose work is not traditionally considered part of the canon of political theory, or is outside of it (say, works of literature), but who have reflected on the aforementioned problems in enlightening ways. As we examine traditional political concerns questions of racial and sexual politics will also be addressed.

POL 1904 Topics: Freshman seminar: Welfare Queens, Sick Kids, & Aging Boomers
3 credit(s), max credits 6; prereq Fr or FRFY; Meets CLE req of International Perspect Theme;

Instructor: Gingrich, Jane Rebecca

Description: The word "welfare" is reviled in American politics, yet we spend three times more on social programs (social security, Medicare, Medicaid) than on defense. The media also portrays the recipients of social programs in starkly contrasting manners: as Cadillac-driving welfare queens, deserving sick children, or RV-driving baby boomers enjoying a long retirement. Why these differences? This seminar examines social policy in the US through an international lens, asking why the political dynamics among social programs in the U.S. are so varied, and why the U.S. looks different from many European and Asian countries. Why do attempts to introduce universal health insurance in the U.S. fail? Why does the U.S. provide public pensions to all elderly citizens, but lack universal programs for children and young people?

POL 1905 Freshman Seminar: Puzzles in Politics & Economics
3 credit(s);

Instructor: Ansell, Benjamin William

Description: Political, social, and economic life is complex. And unlike the movement of atoms or the growth of cells, we cannot perfectly predict future behavior. But, in fact, there are regularities, patterns, and trends to human relations and this class will help you understand these issues systematically. During the semester you will learn to develop simple and testable theories, collect evidence, use that evidence to test and prove your theory. These are the kinds of skills not only in demand among academics; they are excellent training for careers in consultancy, policy, medicine, and the law. Among the topics of study are the rise and fall of states; drugs and crime; suicide terrorism; globalization and inequality; racism; and why you have to pay tuition fees. In each topic, there will be a particular emphasis on international comparisons, so that you can understand the diversity of human experience and how your life in the United States differs from those abroad.

POL 3080 Faculty-Supervised Individual Internships
A-F only, 3-13 credit(s), max credits 15, 3 completions allowed; prereq instr consent, dept consent;

Instructor: Soper, Paul W

Description: Students working in political or governmental internships may receive credit for academic work completed in association with their internship work. Students may receive 1 credit for every 3 hours (per week) of internship work. Academic work increases with increased hours worked. Assignments will include: weekly journal, 5-7 page essay, 10 page research paper. Acceptable internships include: US Congress, MN state legislature, federal, state, and local gov't agencies, as well as political parties, campaign organizations, and non-governmental advocacy groups. To enroll in this course, students must first arrange their internship, and then contact the instructor before the semester begins. Students who do not contact the instructor before the end of the first week of the semester will NOT be enrolled in this course.

Style: Fieldwork/Participant-observation

POL 3085 Quantitative Analysis in Political Science

A-F only, 4 credit(s); prereq 9 cr social sciences recommended; Meets CLE req of Mathematical Thinking Core;

Instructor: Treier, Shawn A

Description: This course serves as an upper-level undergraduate introduction to how political scientists conduct empirical research to study political behavior and institutions. The objective of the course is to teach students how to interpret political phenomena from a systematic and analytical perspective. We consider issues of research design, hypothesis formulation, as well as study basic statistical techniques and analyze political science data. After completion of the course, students will be able to interpret data analyses presented in newspapers, magazines and basic government and academic studies. Students will also be prepared to conduct an empirical senior paper or honors thesis.

POL 3225 American Political Thought
3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme;

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 3251 Greeks, Romans, and Christians: Ancient and Medieval Political Thought
3-4 credit(s), max credits 4, 1 completion allowed; prereq credit will not be granted if credit received for: 5251; Credit will not be granted if credit has been received for: POL 5251; Meets CLE req of Citizenship/Publ Ethics Theme;

Instructor: Vazquez-Arroyo, Antonio Y

Description: This course will provide students with an introduction to Greek, Roman, and early Medieval political thought. The revolts and reforms that gave birth to democracy, a new political experience, in the fifth century BCE in Athens also led to the consequent development of systematic political theorizing. The Greeks reflected on their new political experience in a variety of genres and modes of discourse. The same could be said, albeit to a lesser degree, about the Romans and Medieval thinkers in relation to their respective milieus. In this course we will examine some of the basic concepts emerging in the ancient polis - democracy, constitutions, justice, equality, and authority, as well as other thematics that defined this experience, such as the tensions associated with the distinctions between demos and the elite, ethics and politics, and war - and how these travel into the medieval world, along with their different transformations in different spatial configurations and historical moments. Accordingly, we will read selections from Thucydides' The Peloponnesian War, Aeschylus's Oresteia, Plato's Republic, Aristotle's Politics, Cicero's The Republic and the Laws, selections from Livy's Annales, as well as selections from Christian and non-Christian Medieval thinkers.

POL 3308 Congressional Politics and Institutions
3 credit(s); prereq 1001 or 1002 or instr consent ; Credit will not be granted if credit has been received for: POL 4308; Instructor: Pearson, Kathryn Lynn

Description: This course is a comprehensive survey of the contemporary U.S. Congress. We will begin by analyzing congressional elections, how members of Congress represent their states and districts, and the links between elections and governance. The course will then focus on the organization of Congress, including the interplay between parties and the committee system. We will then analyze the legislative process, rules and procedure, the budget process, interest groups, and the interaction between the Congress and the White House. In the 2008 elections, Democrats won the presidency and increased their majorities in both the House and Senate. This political and electoral context sets the stage for our study of the U.S. Congress, but as we will discover, it is not a guarantee of automatic success for Democrats' policy proposals. Class sessions will include lecture and discussion. It is important that students keep up with the assigned reading to understand the lectures and participate in class. Although attention to current congressional politics will enhance the value of this course, it is no substitute for careful reading and classroom discussion. Students will write two short papers, an 8-10 page paper, and take a midterm and a final exam.

POL 3410 Topics in Comparative Politics: Introduction to Political Economy

3 credit(s), max credits 9, 3 completions allowed;

Instructor: Ansell, Benjamin William

Description: This class introduces students to the theories of economics and politics that underlie debates between politicians and commentators in modern life. We begin by learning about the classic debates among economists and political scientists about the role of government in the market before moving to apply these theories to three important contemporary debates: the causes and response to the current financial crisis, what to do with the American healthcare system, and whether globalization threatens or benefits Americans. We begin by examining the history of economics, moving from Adam Smith and Karl Marx to the modern debate between Keynesian and neoclassical economics. Though these theories may seem arcane to you, they are fundamental to the current debate about the appropriate role of government and the decisions made today that will affect you over the next decades of your lives. We then turn to theories of politics to understand why politicians make particular choices in economic policy. Here we contrast rational choice theories of party behavior to theories that focus on state power to theories of culture and norms. In doing so we will discuss why political parties become successful, how they choose what policies to make, and how religion, norms, and theories of justice affect political life. We conclude by applying our theories of economics and politics to three contemporary debates: the financial crisis, the healthcare system, and the threats and opportunities of globalization.

Style: 80% Lecture, 20% Discussion.

POL 3451W Politics and Society in the New Europe
3 credit(s); Meets CLE req of Writing Intensive;

Instructor: Gingrich, Jane Rebecca

Description: This course focuses on the politics of the European Union. In 1958, six European Countries joined together to form a common market. Fifty years later, the European Union now includes twenty seven European countries, and governs issues as diverse as trade, environmental, and immigration policy. Indeed, the EU has developed into one of the most important and interesting systems of contemporary governance. However, in recent years, the failure of the EU constitution, discontent among new and old member states, and an uncoordinated response to the world financial crisis, have raised questions about the future of the EU. This course introduces students to the European Union in three steps, looking at how its internal structure works, what areas it governs (and does not govern), and the challenges it faces. The course combines careful analysis of the working of the European Union with weekly discussions of current events and key cases. In so doing, students will both learn about this crucial institution, and grapple with questions such as the nature of sovereignty, identity, democracy, and security in contemporary Europe.

POL 3479 Latin American Politics

3 credit(s); prereq 1054 or instr consent ; Credit will not be granted if credit has been received for: POL 5479;

Instructor: Hilbink, Lisa

Description: The course examines Latin American politics by introducing historical and contemporary patterns of democracy and development. It aims to help students understand the origins and effects of Latin America's "dual transitions" to political democracy and market-led economics in the 1980s-90s, analyzing the continued challenges to the deepening of democracy and to sustainable and equitable economic growth in the region. The course presents competing theoretical approaches and discusses them in the context of the political trajectories of four major Latin American cases: Argentina, Chile, Mexico, and Colombia. Readings on other countries will occasionally be assigned.

Style: 70% Lecture, 30% Discussion.

Grading: 20% mid exam, 25% final exam, 35% reports/papers, 20% class participation.

Exam Format: Combo of multiple choice, IDs, and essay

POL 3739 Politics of Race, Class, and Ethnicity

3 credit(s); prereq 6 cr in soc sci; Meets CLE req of Cultural Diversity Theme; meets CLE req of International Perspective Theme;

Instructor: Nimtz Jr, August H

Description: What similarities are there, if any, between the conflicts in the former Yugoslavia, South Africa, Northern Ireland, Rwanda, and Palestine/Israel? Why does racial and ethnic conflict persist in so many regions of the world? To what extent does racial conflict in the U.S. reflect the increasing disparities in wealth? How is racial/ethnic oppression similar and different from sexual oppression? These are some of the questions that this course will address and attempt to answer. This will be done primarily through a comparative analysis of racial/ethnic/class conflict in the U.S., South Africa, and Cuba with particular attention on the experiences of Blacks in the three countries.

Style: 75% Lecture, 25% Discussion.

Grading: 25% mid exam, 50% final exam, 25% reports/papers.

Exam Format: Essay.

POL 3766 Political Psychology of Mass Behavior

3 credit(s); prereq 1001 or equiv or instr consent; Meets CLE req of Citizenship/Publ Ethics Theme;

Instructor: Miller, Joanne Marie

Description: This course will provide an introduction to the interdisciplinary field of political psychology. We will use theories and findings from both political science (particularly in the areas of public opinion and political behavior) and psychology (particularly in the areas of social psychology and personality) to better understand politics, with a special focus on understanding ordinary citizens' political attitudes and behaviors. Students do not have to have prior coursework in both political science and psychology for this class. However, prior coursework in one of the two fields (especially in the areas mentioned above) is recommended.

Style: 80% Lecture, 20% Discussion.

Grading: 25% mid exam, 25% final exam, 30% reports/papers, 10% attendance, 10% other evaluation.

POL 3769 Public Opinion and Voting Behavior

3 credit(s); prereq 1001 or equiv or instr consent ; Credit will not be granted if credit has been received for: POL 5767;

Instructor: Goren, Paul Nurullah

Description: This course focuses on two overarching themes. First, we shall examine public opinion on the most important issues of the day, such as economic welfare, race, homosexuality and other controversial social issues, and foreign policy. We will see where the public has stood on these topics in the past and consider where it is likely to move in the future. Second, we shall examine electoral behavior at the individual level. Specifically, we will see what factors lead people to turnout on Election Day and motivate them to cast ballots for the Democratic or Republican presidential candidates. Finally, note that throughout the term we will consider whether the American public and individual voters make reasonable political decisions.

POL 3835 International Relations

3 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core;

Instructor: Duvall,Raymond D

Description: This course is organized in four units: The first unit, addressed in weeks 1 to 4, concerns the question, what distinguishes international from domestic politics? For that, we focus on the anarchic context of international politics to examine how the absence of authority and rule above states shapes insecurities and struggles for power. The second unit (weeks 5-8) focuses on how states play out the implications of the anarchic context in their political interactions of security, violence, and war. In this unit we include attention to the contemporary international politics of 'terrorism'. Can international politics foster stable, peaceful cooperation is the concern of the third unit (weeks 9-11). Here we ask whether and in what senses one can appropriately speak of an international community and international law. We conclude the course (weeks 12-14) with a unit on whether and how the realm of international politics is (or might be) being transformed into a realm of global and local politics. What is the significance of globalization and localized political movements for international politics? The principal objective of this course is for students to develop an appreciation of the ways in which various theoretical perspectives lead to different understandings of the structures and practices of world politics. Each of the perspectives that we address accepts the assumption that the many and varied interactions among states and non-state actors in the global arena are vital elements of our world. However, in interpreting these many and varied forms of world politics, each of the theories offers not only a unique accounting of why international relations take the form that they do, but also distinct guidance about what international political activity should be. Therefore, we investigate both the explanatory insights and the practical and normative political implications that distinguish each theoretical perspective. Through the highlighting of such theoretical differences, the course is intended to provide the means for students to develop their own theoretically informed analyses of issues in contemporary international relations, such as the changing security dynamics in the Middle East and Southwest Asia, whether a war on terrorism can be won, how the proliferation of nuclear weapons and other 'weapons of mass destruction' affects international stability or instability, the extent to which cooperation on global climate change, human rights, or poverty alleviation is possible, and in what ways the functioning of the global economy shapes the terms and conditions of international politics.

Style: 50% Lecture, 10% Film/Video, 30% Discussion, 5% Small Group Activities, 5% Guest Speakers. students do a few in-class writing assignments

Grading: 30% final exam, 55% reports/papers, 15% quizzes. two analytical papers, six pages each. Each worth 30% of total grade, but lower grade is reduced to count only 25% (for a total of 55% for the two papers)

Exam Format: take-home, essay format

POL 3835 International Relations

3 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core;

Instructor: Kennedy,Denis Verne Flaughter

Description: The world is a realm of order and disorder, conflict and cooperation, and crisis and stability. How are we, as students and scholars of the international system, to understand these seemingly contradictory tendencies? How do we make sense of the world? This course provides students the tools to do just that through a focus on the leading mainstream and critical theories of international relations. It is, at the core, a course that takes theory seriously; at the same time, these theories are grounded in and used to analyze diverse "real world" phenomena, including humanitarian intervention, conflict and war, and international organization and cooperation. Readings will span theoretical, historical, and policy-relevant areas; writing assignments will emphasize critical analysis of current events.

Style: 30% Lecture, 35% Discussion, 30% Small Group Activities, 5% Guest Speakers.

POL 3873W Global Citizenship and International Ethics

3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of International Perspect Theme; meets CLE req of Writing Intensive;

Instructor: Sikkink,Kathryn A

Description: Should nations intervene in other countries to prevent famine or ensure human rights? Under what conditions is war justified? On what principles should immigration policies be based? Who should pay to avoid global environmental problems? Should wealthy states provide foreign aid or forgive the debts of poor countries? Is the possession of nuclear weapons morally and legally acceptable? What do we mean by global citizenship? How does an understanding of global citizenship influence how we answer ethical questions in international politics? Are activist groups in transnational civil society practicing global citizenship? In this course we will grapple with these and many other related questions. This course will introduce you to different traditions of moral, legal, and political thought to provide you with the tools to make reasoned judgments about difficult political problems in global politics. This course meets the CLE ethics and citizenship requirement. The course first presents and defines ethics and the role of ethics in public life. We will then explore the origins of different ethical traditions, and see how those traditions have been subjected to public debate and contestation. Next, we will apply different ethical traditions to concrete problems and instances in international politics. We will study a range of cases from different parts of the contemporary world, and compare similarities and differences in ethical and philosophical traditions and ideas about citizenship in different regions of the world. One goal of the course is to help you understand that there is no single correct ethical approach to a problem, but that different philosophical traditions may provide different ways of understanding both ethics and citizenship. Learning about these traditions can help you make more thoughtful and informed decisions about your own practices of as a national and international citizen. Ideas about global ethics and citizenship are dynamic and contested; they have changed over time, often in response to pressures from citizenship movements. Throughout the course, I will encourage you to develop, defend, or question your own values and beliefs in relation to the ethical traditions and political cases we are exploring. The final section of the course will be specifically focused on individual ethical dilemmas.

Style: 35% Lecture, 3% Film/Video, 25% Discussion, 25% Small Group Activities, 10% Student Presentation, 2% Guest Speakers. This course will combine lecture, discussion, small group work, informal in-class writing assignments, and the case method of teaching. Cases are short factual descriptions of events that were written specifically as teaching tools.

Grading: 35% mid exam, 40% reports/papers, 15% reflection paper, 10% class participation. Papers: 3 short reflection papers and a first draft (8-10 pages) and a second draft (10 pages) of a research paper (each draft account for 20% of your grade).

Exam Format: Essay and short answer

POL 4210 Topics in Political Theory

A-F only, 3 credit(s), max credits 6;

Instructor: STAFF

Description: Caring, Political Theory & Politics - Instructor Professor Joan Tronto Given the historic association of caring with the work of women, slaves, servants, and other marginalized groups, to raise questions about caring requires us to engage questions of political power and well as political values. How should we, as citizens, think of the role of public life in caring, and how (if at all) can our caring activities inform our roles as citizens? This course will explore the historic precedents and current discussions about "an ethic of care" in an attempt to answer the question: how should the ubiquitous human activities of caring fit within our political ideals and practices? The course will also provide an opportunity to apply theoretical perspectives to real political problems such as globalization and migration. Class Time: 50% Lecture, 35% Discussion, 15% Small Group Activities

Style: 50% Lecture, 35% Discussion, 15% Small Group Activities.

Grading: 35% final exam, 60% reports/papers, 5% class

participation. Improvement over the semester may result in a final grade higher than this calculation suggests.

Exam Format: Exam Format: 2 essays, likely questions distributed in advance.

POL 4315W State Governments: Laboratories of Democracy
4 credit(s); prereq 1001 or equiv, non-pol sci grad major or instr consent; Credit will not be granted if credit has been received for: POL 5315; Meets CLE req of Writing Intensive;
Instructor: Soper, Paul W

Description: While we often think of the federal government as the leader in American politics, state governments often produce most of the policymaking innovation in the U.S., and they are also responsible for most of the implementation of federal and state policies. So, studying state government and politics provides an excellent way of learning how government really works in the U.S. In this course, we will investigate the following questions: How do states differ in their political systems, governments, and public policies? Do different states have different political cultures? How do these political cultures affect politics in different states? How is Minnesota politics typical, and how is it unique, compared with other states? How does state politics and government intersect with national politics and government? This course is writing intensive, so we will spend considerable time in class discussing writing, and performing exercises to improve your writing skills. Your grade will be based not only on your comprehension of state government and politics, but on the quality of your writing.

Style: 40% Lecture, 40% Discussion, writing exercises
Grading: 20% mid exam, 30% final exam, 50% reports/papers.

Exam Format: essay

POL 4410 Topics in Comparative Politics

3 credit(s), max credits 6;

Instructor: STAFF

Description: Justice in Times of Global Transition. Instructor: Professor Leigh Payne. This course introduces students to justice efforts after transitions from authoritarian rule or internal and armed conflict. In addition to examining different types of transitions, we will study transitional justice and post-conflict justice. These include trials, truth commissions, amnesty, reparations, lustration and vetting, institutional reform, museums and memorials, testimonials and art. The course involves an interdisciplinary and case study approach. The key debates, concepts and theories explored include international relations and comparative politics, legal studies, sociology, social psychology, performance studies, and literary criticism. The course will focus on emblematic case studies of justice efforts, specifically: international trials in Germany, Cambodia, and Yugoslavia; domestic trials in Argentina and Peru; the South African Truth and Reconciliation Commission; lustration in Eastern Europe and de-Baathification in Iraq; and reparations for slavery and Japanese interment in the United States. Students will develop expertise on a country of their choice. In addition to in-class exams on key concepts, students will apply the concepts, theories and debates learned in two research papers on the same case study. The goals of the course extend beyond knowledge about transitions and justice. The course is also designed to develop skills in independent critical and analytical thinking, writing and research, and argument.

Grading: 20% mid exam, 20% final exam, 45% reports/papers, 10% class participation, 5% other evaluation. 5% other evaluation is a research proposal.

POL 4463 The Cuban Revolution Through the Words of Cuban Revolutionaries

3 credit(s); prereq 1025 or 1054 or equiv or instr consent ;

Instructor: Nimitz Jr, August H

Description: The history of socialist revolutions over the course of a century or more reveals that what occurred in Cuba has proven to have more lasting power. In spite of all the challenges it continues to face, what explains why the Cuban Revolution is still in place after four decades? This is the central research question of the course. A definitive answer would require a thorough examination of the revolution from its initiation until today, which is beyond what can be done in a semester or its

equivalent. The focus, rather, will be more limited. First, how was the revolution made and consolidated, from 1953 until about 1969. Second, how has it been able to survive and advance since the collapse of the Soviet Union, that is, since 1991? The emphasis here is on the role of leadership and strategy and how the Cubans and their leaders saw and see what they are doing, in their own words. This is an attempt to get into their heads, their understandings, through documents, speeches and writings. For the first question I will also draw on the data from a research/film documentary project that I'm involved in at this moment: the participation of women and men in the guerrilla army and underground movement.

POL 4465 Southeast Asian Politics

3 credit(s);

Instructor: Caraway, Teri Lynn

Description: Composed of eleven countries, Southeast Asia covers a wide geographical region stretching from India to China. With a rich endowment of natural resources, a dynamic manufacturing base, and a strategic location on China's southern flank, the region has come to play an increasingly important role in the political and economic affairs of the globe. Culturally and ethnically diverse, hundreds of languages are spoken in the region, and the religions practiced include Buddhism, Catholicism, Hinduism, and Islam. All of the countries in Southeast Asia have exclusionary political systems, but they range from the formally democratic through civilian authoritarianism to military authoritarianism. Because the region is so diverse, the introduction must necessarily be incomplete. Readings and lectures will focus on seven countries: Burma, Indonesia, Malaysia, the Philippines, Singapore, Thailand, and Vietnam. The course centers on three main themes: comparing the countries in the region with respect to political change and political systems, the Vietnam War, and counter-terrorism since 9/11. By the end of the course, students will have a better understanding of politics in the region and acquire theoretical tools for analyzing politics there.

Style: 30% Lecture, 20% Film/Video, 30% Discussion, 20% Small Group Activities.

Grading: 29% mid exam, 29% final exam, 29% reports/papers, 13% class participation. I use a point system, with 100 points each for the midterm, final, and research paper and 50 points for class participation.

POL 4481 Governments and Markets

3-4 credit(s), max credits 4, 1 completion allowed; prereq 1054 or 3051 or non-pol sci grad or instr consent;

Instructor: Freeman, John Roy

Description: This course addresses the question of whether democracy and markets are compatible, whether democratic institutions enhance (undermine) the workings of market institutions and vice versa. Competing theoretical perspectives in the field of political economy are critically evaluated. And the experiences of countries with different forms of democratic market system are studied. Among the topics singled out for in-depth investigation are the economics of voting, politics of money management, political business cycles, and the politics of trade.

Style: 50% Lecture, 50% Discussion.

POL 4489W Citizens, Consumers, and Corporations

3 credit(s); Meets CLE req of Writing Intensive;

Instructor: Caraway, Teri Lynn

Description: Corporations are among the most powerful actors in the global political economy. They employ millions of people, produce a variety of goods, and have massive effects on the ecological and social environments in which they do business. How do ordinary people act in order to hold corporations accountable for the effects that their activities have on communities and individuals? This course focuses on two ways that people have mobilized to counter corporate power--as citizens and as consumers. When people mobilize as citizens, they put pressure on corporations through the political system--e.g. through mass protests, lobbying politicians, and pursuing claims through the courts. When people mobilize as consumers, they use the power of their purchasing decisions to

encourage corporations to change their behavior. We will explore these different modes of action through an examination of Wal-mart, branding and corporate social responsibility, labor rights, the environment, fair trade, water privatization, the privatization of life, and outsourcing war.

Style: 40% Lecture, 15% Film/Video, 30% Discussion, 15% Small Group Activities.

Grading: 20% final exam, 60% reports/papers, 20% class participation. Students will write two short essays of 4-5 pages and one research paper, 6-8 pages in length.

Exam Format: The final exam will be an essay exam in which students will answer one question from a list of two or three questions.

POL 4867W United States Foreign Policy Toward the Middle East

4 credit(s); prereq Jr or sr; Meets CLE req of International Perspect Theme; meets CLE req of Writing Intensive;

Instructor: Sampson III, Martin Wright

Description: The relationship of the United States to the Middle East is complex, and the Middle East region itself is complex. This course weaves these two topics together. It assumes that one cannot think sensibly about US policy without significant awareness of the Middle East region. A key objective is that students learn about Turkey, Iran, Israel, the Palestinians, and various Arab states including Iraq. Many readings have Middle Eastern authors. A second key objective is that students learn about debates, actions, inertias, and rationales for US engagement with the region. The course meets the Dept of Political Science major project requirement. It is also a writing intensive course. "Writing intensive" means the course devotes instructional time to helping you cope with the required writing assignments. The actual amount of writing is similar to what the course required before it became a writing intensive course.

Style: 65% Lecture, 20% Discussion, 15% Small Group Activities.

Grading: 20% mid exam, 30% final exam, 40% reports/papers, 10% other evaluation.

Exam Format: one large essay question, short answer, and blank-d multiple choice. A study guide appears a week before each test.

POL 4883W Global Governance

3 credit(s); prereq 3835 or non-pol sci grad or instr consent ; Meets CLE req of International Perspect Theme; meets CLE req of Writing Intensive;

Instructor: Barnett, Michael Nathan

Description: Student may contact the instructor or department for information.

POL 4885W International Conflict and Security

4 credit(s); Credit will not be granted if credit has been received for: POL 5885; Meets CLE req of International Perspect Theme; meets CLE req of Writing Intensive;

Instructor: Calkivik, Asli Emine

Description: Security has become so central to our lives. We strive for national security, border security, human security, environmental security, food security, information security, and economic security. Yet, in contrast to the prevailing optimism at the end of the Cold War, acts of terrorism, ongoing political conflicts, hunger, poverty, environmental disasters and global climate change have become a constant source of insecurity for our lives. This problem serves as the departure point for this class where we will ask: "What is the nature of war in the 21st century?" What are the relations between globalization and political conflict? How are we to understand Islamic Jihad? Is international intervention a solution to humanitarian crises? How do new threats such as the spread of infectious disease affect the prospects for international security? In the first section - Sovereignty, Security, and the Politics of War - we will familiarize ourselves with diverse perspectives on the meaning of war, the relations between sovereignty and security, and the possibilities for peace. In the second section - Contemporary Politics of Security - we will focus on a broad range of issues relating to security, violence, and war in the contemporary world.

Throughout the course, we will draw upon a variety of sources

ranging from scholarly works, government documents, reports of international organizations, political speeches and personal testimonies to explore concepts, themes, issues relating to war, conflict, and security.

Style: 50% Lecture, 10% Film/Video, 30% Discussion, 10% Small Group Activities.

Grading: 90% reports/papers, 10% reflection paper. Short Papers: 50% (25% each) Research Paper: 40% Reflection Papers: 10% (5% each)

POL 4900W Senior Paper

A-F only, 1 credit(s); prereq Pol sr, instr consent; Meets CLE req of Writing Intensive;

Instructor: STAFF

Description: Can be attached to any 3XXX or 4XXX course (with the instructor's agreement). A 10-15 page paper is submitted for evaluation/advice by instructor, then revised for final submission.

Grading: 100% reports/papers.

Exam Format: None

POL 5315 State Governments: Laboratories of Democracy

4 credit(s); prereq grad student or instr consent; Credit will not be granted if credit has been received for: POL 4315W;

Instructor: Soper, Paul W

Description: Student may contact the instructor or department for information.

POL 5410 Topics in Comparative Politics: Justice in Times of Global Transition

3 credit(s); prereq grad student;

Instructor: Payne, Leigh A

Description: Student may contact the instructor or department for information.

POL 5465 Southeast Asian Politics

3 credit(s);

Instructor: Caraway, Teri Lynn

Description: Composed of eleven countries, Southeast Asia covers a wide geographical region stretching from India to China. With a rich endowment of natural resources, a dynamic manufacturing base, and a strategic location on China's southern flank, the region has come to play an increasingly important role in the political and economic affairs of the globe. Culturally and ethnically diverse, hundreds of languages are spoken in the region, and the religions practiced include Buddhism, Catholicism, Hinduism, and Islam. All of the countries in Southeast Asia have exclusionary political systems, but they range from the formally democratic through civilian authoritarianism to military authoritarianism. Because the region is so diverse, the introduction must necessarily be incomplete. Readings and lectures will focus on seven countries: Burma, Indonesia, Malaysia, the Philippines, Singapore, Thailand, and Vietnam. The course centers on three main themes: comparing the countries in the region with respect to political change and political systems, the Vietnam War, and counter-terrorism since 9/11. By the end of the course, students will have a better understanding of politics in the region and acquire theoretical tools for analyzing politics there.

Style: 30% Lecture, 20% Film/Video, 30% Discussion, 20% Small Group Activities.

Grading: 29% mid exam, 29% final exam, 29% reports/papers, 13% class participation. I use a point system, with 100 points each for the midterm, final, and research paper and 50 points for class participation.

POL 5481 Governments and Markets

S-N only, 3-4 credit(s); prereq credit will not be granted if credit received for: 4481; 1054 or 3051 or non-pol sci grad student or instr consent;

Instructor: Freeman, John Roy

Description: Student may contact the instructor or department for information.

POL 5767 Public Opinion and Voting Behavior

3 credit(s); prereq grad student or instr consent ; Credit will

not be granted if credit has been received for: POL 3769;

Instructor: Goren,Paul Nurullah

Description: This course focuses on two overarching themes. First, we shall examine public opinion on the most important issues of the day, such as economic welfare, race, homosexuality and other controversial social issues, and foreign policy. We will see where the public has stood on these topics in the past and consider where it is likely to move in the future. Second, we shall examine electoral behavior at the individual level. Specifically, we will see what factors lead people to turnout on Election Day and motivate them to cast ballots for the Democratic or Republican presidential candidates. Finally, note that throughout the term we will consider whether the American public and individual voters make reasonable political decisions.

for information.

POL 8127 Survey Research Methods: Measuring Public Opinion

3 credit(s); prereq Pol sci grad major;

Instructor: Miller,Joanne Marie

Description: This course offers a review of some of the major theoretical and empirical issues associated with survey research methodology (including questionnaire design and scientific sampling) and prepares students in the fundamental skill areas necessary to design and conduct survey research projects. Course requirements include regular attendance and participation in the weekly seminars, preparation for seminars by completing the readings, working with other students in groups outside of the seminar to prepare for class assignments, and a final examination. The course is designed so that anyone who concentrates on the work at hand can do well. Falling behind is not a good idea, as each class session builds on what you have learned before. It is particularly important to stay on top of the weekly readings.

Style: 70% Lecture, 30% Discussion.

Grading: 40% final exam, 60% reports/papers.

POL 8160 Topics in Models and Methods

1-3 credit(s), max credits 12, 4 completions allowed; prereq Grad pol sci major or instr consent ;

Instructor: Freeman,John Roy

Description: Student may contact the instructor or department for information.

POL 8160 Topics in Models and Methods: Intro to Probability & Statistics

1-3 credit(s), max credits 12, 4 completions allowed; prereq Grad pol sci major or instr consent ;

Instructor: Goren,Paul Nurullah

Description: Student may contact the instructor or department for information.

POL 8160 Topics in Models and Methods: Maximum Likelihood Estimation

1-3 credit(s), max credits 12, 4 completions allowed; prereq Grad pol sci major or instr consent ;

Instructor: Treier,Shawn A

Description: Student may contact the instructor or department for information.

POL 8260 Topics in Political Theory: Politics & Ethics of Care in Contemporary Debates

3 credit(s), max credits 6; prereq Grad pol sci major or instr consent ;

Instructor: Tronto,Joan C

Description: Student may contact the instructor or department for information.

POL 8301 American Politics

3 credit(s), max credits 4, 1 completion allowed; prereq Grad pol sci major or instr consent;

Instructor: Abernathy,Scott F

Description: Student may contact the instructor or department for information.

POL 8307 Proseminar in Political Psychology I

S-N only, 1 credit(s); prereq Grad pol sci major or pol psych minor or instr consent; Credit will not be granted if credit has been received for: PSY 8211;

Instructor: Sullivan,John L

Description: Student may contact the instructor or department for information.

POL 8312 Legislative Process

3 credit(s); prereq Grad pol sci major or instr consent;

Instructor: Pearson,Kathryn Lynn

Description: Student may contact the instructor or department for information.

POL 5885 International Conflict and Security

3 credit(s); prereq grad student; Credit will not be granted if credit has been received for: POL 4885W;

Instructor: Calkivik,Asli Emine

Description: Security has become so central to our lives. We strive for national security, border security, human security, environmental security, food security, information security, and economic security. Yet, in contrast to the prevailing optimism at the end of the Cold War, acts of terrorism, ongoing political conflicts, hunger, poverty, environmental disasters and global climate change have become a constant source of insecurity for our lives. This problem serves as the departure point for this class where we will ask: "What is the nature of war in the 21st century?" What are the relations between globalization and political conflict? How are we to understand Islamic Jihad? Is international intervention a solution to humanitarian crises? How do new threats such as the spread of infectious disease affect the prospects for international security? In the first section - Sovereignty, Security, and the Politics of War - we will familiarize ourselves with diverse perspectives on the meaning of war, the relations between sovereignty and security, and the possibilities for peace. In the second section - Contemporary Politics of Security - we will focus on a broad range of issues relating to security, violence, and war in the contemporary world. Throughout the course, we will draw upon a variety of sources ranging from scholarly works, government documents, reports of international organizations, political speeches and personal testimonies to explore concepts, themes, issues relating to war, conflict, and security.

Style: 50% Lecture, 10% Film/Video, 30% Discussion, 10% Small Group Activities.

Grading: 90% reports/papers, 10% reflection paper. Short Papers: 50% (25% each) Research Paper: 40% Reflection Papers: 10% (5% each)

POL 8060 Research Proseminar in Political Science

S-N only, 2 credit(s), max credits 8, 4 completions allowed; prereq Pol sci grad student;

Instructor: Pearson,Kathryn Lynn

Description: Student may contact the instructor or department for information.

POL 8070 Advanced Research and Writing in Political Science

S-N only, 2 credit(s), max credits 4; prereq ABD student in pol sci;

Instructor: Sullivan,John L

Description: Student may contact the instructor or department for information.

POL 8101 Introduction to Political Science

A-F only, 3 credit(s), max credits 4, 1 completion allowed; prereq Grad pol sci major or instr consent;

Instructor: Samuels,David Julian

Description: Student may contact the instructor or department for information.

POL 8104 Professional Development I

S-N only, 1 credit(s), max credits 2; prereq Pol student, ABD status;

Instructor: Kelliher,Daniel R

Description: Student may contact the instructor or department

POL 8313 Executive Process**3 credit(s); prereq Grad pol sci major or instr consent;****Instructor:** Jacobs,Larry**Description:** Student may contact the instructor or department for information.**POL 8401 International Relations****3 credit(s), max credits 4, 1 completion allowed; prereq Grad pol sci major or dept consent;****Instructor:** Barnett,Michael Nathan**Description:** Student may contact the instructor or department for information.**POL 8403 International Norms and Institutions****3 credit(s); prereq Grad pol sci major or instr consent;****Instructor:** Sikkink,Kathryn A**Description:** This seminar explores a variety of theoretical approaches to the study of international norms and institutions in world politics with an emphasis on the development of contemporary research programs and their usefulness for helping us understand and explain current issues in global governance. The course is designed primarily for Ph.D. students in political science to help prepare them for the Ph.D. prelim exams in International Relations, but graduate students from other departments may be admitted with the permission of the instructor.**Style:** 10% Lecture, 70% Discussion, 20% Student Presentation. Students will choose weeks for which they will write reflection papers, and they will be responsible for presenting and synthesizing the issues and readings for the week and leading discussion.**Grading:** 100% reports/papers.**POL 8412 American Foreign Policy****3 credit(s); prereq 8410 or instr consent;****Instructor:** Sampson III,Martin Wright**Description:** Student may contact the instructor or department for information.**POL 8601 Introduction to Comparative Politics****3 credit(s); prereq Grad pol sci major;****Instructor:** Samuels,David Julian**Description:** Student may contact the instructor or department for information.**POL 8602 Families, Children, and the State****A-F only, 3 credit(s);****Instructor:** Kelliher,Daniel R**Description:** In Fall 2009 this interdisciplinary course will cover five areas of conflict over the family in contemporary politics: (1) Sex: Power in sexual relationships, sexual elements of political ideologies, sexual freedom & the state. (2) Who can make a family: Same-sex marriage, teenage childbearing, polygamy. (3) Children: Child-friendly social policies, child prostitution, child soldiers, sex-selective abortion & the "missing girls" problem. (4) Family survival: Financial crisis, taxation, bankruptcy, divorce, childcare, family leave, social support for families. (5) Electoral politics: Families & electoral behavior, manipulation of family imagery in political campaigns. Readings will come from several disciplines and cover a variety of national settings, both U.S. and other countries. Students from all departments are welcome.**POL 8641 Comparative Mass Political Behavior****A-F only, 3 credit(s); prereq Grad pol sci major or instr consent;****Instructor:** Shively,W Phillips**Description:** Student may contact the instructor or department for information.**POL 8660 Topics in Comparative Politics: Religion, Identity & Politics****3 credit(s), max credits 9, 3 completions allowed; prereq Grad pol sci major or instr consent ;****Instructor:** Collins,Kathleen A**Description:** This course examines theoretical debates about the role of religion in politics and governance. The course will

primarily focus on these debates as they play out in the "Muslim world," that is, primarily in the Middle East, Muslim Eurasia, South and Southeast Asia and Africa. However, the course will discuss comparative political and sociological theories of religion more broadly. The course will also include a number of readings and examples that deal with the role of Christianity in western politics, historically and today. The course is divided into theoretical components, and each one will examine a major debate about the role of religion, especially Islam, in politics, such as: the intricate relationship between religious identity and tribe, ethnicity, nation and nationalism, and citizenship; religion and democracy; religion and gender politics; religion and state-building; religion and conflict; and religion and terrorism. The course will also cover a broad array of methodologies for studying religious identity and politics, from ethnographic to survey methods. These discussions are designed to help graduate students think about developing their own tools for pursuing field research related to religious and identity politics. The course has a political science focus, but is designed to be interdisciplinary. It draws on literature in anthropology (Saba Mahmood), sociology (e.g. Ronald Inglehart, Mounira Charrad), law (e.g. Noah Feldman, Hallaq), Islamic studies (e.g. Asma Afsaruddin) and history (e.g. Benin, John Esposito), as well as political science (Mark Tessler, Amaney Jamal, Robert Pape). Course requirements will include a final research paper and class presentations.

Portuguese

34 Folwell Hall

PORT 1101 Beginning Portuguese**5 credit(s);****Instructor:** STAFF**Description:** Introduction to Portuguese: speaking and understanding, pronunciation, reading and writing, basic grammar, cultural aspects of the language and Portuguese-speaking countries (Portugal, Brazil, Mozambique, Angola, Cape Verde, Guinea Bissau, and Sao Tome and Principe).**PORT 1103 Intermediate Portuguese****5 credit(s); prereq 1102 or instr consent ;****Instructor:** STAFF**Description:** Intermediate Portuguese: Speaking and comprehension, development of reading and writing skills based on Portuguese-language materials, cultural and linguistic aspects of Portuguese-speaking countries (Portugal, Brazil, Mozambique, Angola, Cape Verde, Guinea Bissau, and Sao Tome and Principe).**PORT 1909W Freshman Seminar: Brazil: Land of the Future, Postponed****3 credit(s); prereq Fr; Meets CLE req of International Perspective Theme; meets CLE req of Writing Intensive;****Instructor:** Arenas,Fernando**Description:** Brazil is more than the common stereotypes associated with lush tropical beaches, the Amazon rainforest, glamorous Carnival pageantry, sensuous mulattas, or world-famous soccer players. Brazil is the largest country in Latin America, a Portuguese-speaking nation that plays a pivotal role in the Western Hemisphere due to population, landmass, and economic output. Given Latin America's proximity to the United States and its importance from a geostrategic, economic, political, and cultural viewpoint, it is important that American citizens become acquainted with Brazil. This seminar offers an introduction to Brazilian culture as well as key historical and socio-political issues from 1500 until the early 21st century. We will approach Brazil from a comparative perspective, making relevant connections to Africa, Europe, the U.S., and Spanish-speaking Latin America. One third of the course will be dedicated to a comparative study of race? and race relations in Brazil, the U.S., and South Africa.

PORT 3001 Portuguese for Spanish Speakers
4 credit(s); prereq [SPAN 3015, [LPE or PORT LPE]] or [speaker of other Romance language, instr consent];
Instructor: STAFF
Description: Study of Portuguese based on student knowledge of Spanish (speakers of other Romance languages are allowed with instructor permission). Contrastive approach to the phonic and morpho-syntactic structures of Portuguese. Cultural components will focus on Brazil, Portugal, and/or Portuguese-speaking Africa.
Style: 20% Lecture, 60% Discussion. in-class writing
Grading: 15% mid exam, 20% final exam, 20% reports/papers, 10% quizzes, 15% in-class presentation, 20% class participation.

PORT 3003 Portuguese Conversation and Composition
4 credit(s); prereq 1104, 3001, Port LPE;
Instructor: STAFF
Description: This course will focus on grammar review through practical activities in order to encourage conversation. There will also be readings, films/videos, and discussions that will center on Brazilian and/or Portuguese, and/or Lusophone African cultures. The main objective is for students to improve all four language skills (comprehension, reading, speaking, and writing).

PORT 3503W Literatures and Cultures of Lusophone Africa
3 credit(s); prereq 3003; Credit will not be granted if credit has been received for: PORT 3503V; Meets CLE req of Writing Intensive;
Instructor: Filipe, Eleusio
Description: In this course, we will examine the formation of the postcolonial literatures of Lusophone Africa (Cape Verde, Guine Bissau, S?o Tome e Principe, Angola, and Mozambique). We will pay particular attention to the contributions of cultural and literary movements such as Claridade and Certeza in the formation of Cape Verdean identity in the 1930s and 1960s, and the influence of negritude in the poetry of Lusophone Africa. In particular, we will look at how the nation was imagined by poets and writers of these countries from colonial to postcolonial periods, and how they contested colonialism and the ideas associated with lusotropicalism. We will also address the problems of nation building focusing on issues of race, class, gender, ethnicity, among others. To achieve these goals, we will read literary texts in the form of prose and poetry as well as critical/theoretical readings that situate them. The course will be taught primarily in Portuguese, but some of the readings will be in English.

PORT 3603 Portuguese-Speaking Cultures and Literatures in Translation
3 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Literature Core;
Instructor: Arenas, Fernando
Description: An introduction to the cultures of Portuguese-speaking Africa: Angola, Cape Verde, Guinea Bissau, Mozambique, and Sao Tome & Principe. Through an inter-disciplinary focus that includes history, literature, intellectual thought/critical theory, film, and popular music, we will study the key cultural problematics related to Lusophone Africa and its various individual countries. Some of the topics covered: colonialism and (post-) or (neo-)colonialism; Pan-Africanism and Negritude; wars of liberation and Third World Marxism; national identity formations; the politics of race, gender, and sexuality; the travails of democratization and modernization; the challenges of nation re-building and peace-making; and a possible future for (Lusophone) Africa in a globalized world. This course will be taught in English.

PORT 4101 Beginning Portuguese
2 credit(s); prereq Grad student;
Instructor: Cordeiro, Celia Carmen
Description: Student may contact the instructor or department for information.

PORT 4103 Intermediate Portuguese
2 credit(s); prereq Grad student;
Instructor: Bartolomei, Fernanda Horta

Description: Student may contact the instructor or department for information.

PORT 5910 Topics in Lusophone Cultures and Literatures: Reading 'Race' and Racisms in Portuguese
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Ferreira, Ana Paula
Description: TOPIC: Reading 'Race' and Racisms in Portuguese Despite the pervasiveness of 'race' and despite representations of racism in the Portuguese and Brazilian literary traditions, with which the more recent Lusophone African literatures may be grouped in the colonial-postcolonial continuum, it has been "little less than a heresy" (Russell Hamilton) to invoke 'race' in the context of Portuguese-speaking cultures. This is all the more so in the case of Portugal and Lusophone Africa, where the study of 'race' and racisms in regard to literature continues to be a taboo, one even more difficult to breach than are non normative sexualities. This course aims to denaturalize the (convenient) silence surrounding the topic in the literary-critical context, taking the Portuguese language itself to be the extant remnant of empire as well as the traumatic reminder of its manifold violences, with racism at its base. We will focus on several intertwined areas of racial inscription or, as the case may be, of racist foreclosure in 20th century cultures of Portuguese expression. The latest of these is the multiculturalist concept of Lusofonia, from which the term "Lusophone" ensues. The central one is "Luso-tropicalism"; we will survey its different historical articulations, political uses and critiques. The "common sense" of miscegenation is the third cultural problematic calling for the tracking down of 'race' and racisms. Finally, we will consider discourses of national identity that have supported myths of national-exceptionalism. We will go over two sets of primary texts: literature and cultural, anthropological, sociological and historiographical essays. Secondary texts are of two kinds: the first and arguably more important for the purposes of this course pertains to race critical theory; the second are studies referring to either the literary texts or to the cultural problematics of Lusofonia, Lusotropicalism, Race and Miscegenation, and Identity. Students are expected to participate in the discussion of primary and secondary texts; outline the relevance of key theoretical texts; prepare an annotated bibliography; and write an original research paper of no less than 15 double-spaced pages, accompanied by a short 1-2 page summary to be circulated among the group. Oral presentations of research papers followed by discussion will take place during the last two weeks of class.

PORT 5970 Directed Readings
3 credit(s), max credits 9, 3 completions allowed; prereq MA or PhD candidate, instr consent , dept consent , college consent ;
Instructor: STAFF
Description: Lusophone Studies (Portuguese-speaking Africa, Brazil and Portugal) Thematic areas not covered in other courses. Students submit reading plans for particular topics, figures, periods or issues.

PORT 5990 Directed Research
1-4 credit(s), max credits 9, 9 completions allowed; prereq instr consent, dept consent, college consent;
Instructor: Arenas, Fernando
Description: Student may contact the instructor or department for information.

PORT 5990 Directed Research
1-4 credit(s), max credits 9, 9 completions allowed; prereq instr consent, dept consent, college consent;
Instructor: Ferreira, Ana Paula
Description: Student may contact the instructor or department for information.

Post Secondary Teaching and Learning

140 Appleby Hall

PSTL 722 Introductory Algebra (Computer)

0 credit(s); prereq [4 cr equiv], General Math Placement Test credit will not be granted if credit received for: 0616, 0617, 0621, 0712, 0713, 0716, 0717, 0721, 1435;

Instructor: Robertson, Douglas Frederick

Description: A first course in algebra taught using computer-mediated instruction. You learn new material using interactive multimedia computer software. There are no lectures. You will be on the computer 70% of each class period. The rest of the time you will be working on algebra problems, taking exams, and working individually with the instructor. This course is not self-paced; you must follow a set schedule for checkpoints, homework, and exams. Course covers concepts and procedures of elementary algebra at a level of difficulty and abstraction geared for students enrolled at a research university. To be successful you must enter the course being able to work with whole numbers, fractions, decimals, and percents. Course content includes real number (signed number) operations, equations, inequalities, absolute value, rectangular (x-y) graphs, systems, exponents, polynomials, factoring, rational expressions and equations, and word problems. Hourly time commitment per week: Class: 4, Reading: 1, Writing: 0, Studying: 2, Homework: 6. Homework assignments ask you to work 10-40 problems each class day. Testing includes daily checkpoints (one question mini-quizzes), four 50 minute closed-book exams and a two hour comprehensive final. Course prepares you for Intermediate Algebra, PsTL 0732.

Style: 30% Discussion, 70% Web Based. Computer-mediated instruction, working on problems, interacting with instructor

Grading: 60% mid exam, 20% final exam, 10% quizzes, 10% written homework.

Exam Format: Algebra problems to solve (e.g. Solve this equation); Exams are closed book but calculators are allowed..

PSTL 732 Intermediate Algebra (Computer)

0 credit(s); prereq 4 cr equiv or grade of at least C in [0713 or 0717 or 0721 or 0722] or General Math Placement Test credit will not be granted if credit received for: 0618, 0625, 0631, 0731, 1443, 1444, 1445, 1446; Credit will not be granted if credit has been received for: PSTL 731;

Instructor: Robertson, Douglas Frederick

Description: A second course in algebra taught using computer-mediated instruction. You learn new material using interactive multimedia computer software. There are no lectures. You will be on the computer 70% of each class period. The rest of the time you will be working on algebra problems, taking exams, and working individually with the instructor. This course is not self-paced; you must follow a set schedule for checkpoints, homework, and exams. Course covers concepts and procedures of intermediate algebra at a level of difficulty and abstraction geared for students enrolled at a research university. To be successful you must enter the course being able to work with expressions, equations, exponents, polynomials, factoring, rational expressions and equations, and graphs. Course content includes roots, radicals, linear, quadratic, exponential, and logarithmic functions, and word problems. Hourly time commitment per week: Class: 4, Reading: 1, Writing: 0, Studying: 2, Homework: 6. Homework assignments ask you to work 10-40 problems each class day. Testing includes daily mini-quizzes, four 50 minute closed-book exams and a two hour comprehensive final. Calculators are allowed. Course prepares you for Math 1031 College Algebra or Math 1051 Precalculus I, as well as PsTL 1004 Statistics and PsTL 1006 Mathematical Modeling and Prediction (both of which satisfy the CLE Mathematical Thinking requirement).

Style: 30% Discussion, 70% Web Based. Computer-mediated instruction, work individually, work one-on-one with instructor

Grading: 60% mid exam, 20% final exam, 10% quizzes, 10% written homework.

Exam Format: Exams are problem oriented (e.g., Solve this equation)

PSTL 1004 Statistics

4 credit(s); prereq Intermediate algebra or equiv or placement exam credit will not be granted if credit received for: GC 1454 or Stat 1001; Meets CLE req of Mathematical Thinking Core;

Instructor: Stottlemeyer PhD, Janet

Description: This course is an introduction to statistics that emphasizes problem solving and decision making through the collection, analysis, and interpretation of data. Course topics include the organization and presentation of data, summary statistics, sampling methodology, sampling distributions, probability, estimation, correlation, hypothesis testing, contingency tables, and chi-square analysis. The instructional approach includes the use of small active learning groups, computer statistics software, computer simulations, in-depth projects, writing assignments, demonstrations, and lots of discussion and problem solving based on practical examples. Students learn how to analyze and interpret quantitative information, to use statistical thinking, and to communicate using the language of statistics. Students will develop a level of statistical literacy that enables them to critically assess information encountered in the media and other sources. This course will be of particular interest to undergraduate non-majors who want to fulfill the CLE requirement in Mathematical Thinking.

Style: 40% Lecture, 9% Discussion, 50% Small Group Activities, 1% Student Presentation.

Grading: 25% reports/papers, 55% additional semester exams, 20% problem solving. The 20% of the course grade for problem solving involves course work done in the classroom - most assignments will be found in the course packet.

Exam Format: Exams are a combination of short answer questions, calculations and graphing, and multiple choice questions.

PSTL 1004 Statistics

4 credit(s); prereq Intermediate algebra or equiv or placement exam credit will not be granted if credit received for: GC 1454 or Stat 1001; Meets CLE req of Mathematical Thinking Core;

Instructor: Loch, Suzanne Yvette

Description: This course is an introduction to statistics that emphasizes problem solving and decision making through the collection, analysis, and interpretation of data. Course topics include the organization and presentation of data, summary statistics, sampling methodology, sampling distributions, probability, estimation, correlation, hypothesis testing, contingency tables, and chi-square analysis. The instructional approach includes the use of small active learning groups, computer statistics software, computer simulations, in-depth projects, writing assignments, demonstrations, and lots of discussion and problem solving based on practical examples. Students learn how to analyze and interpret quantitative information, to use statistical thinking, and to communicate using the language of statistics. Students will develop a level of statistical literacy that enables them to critically assess information encountered in the media and other sources. This course will be of particular interest to undergraduate non-majors who want to fulfill the CLE requirement in Mathematical Thinking.

Style: 40% Lecture, 9% Discussion, 50% Small Group Activities, 1% Student Presentation.

Grading: 25% reports/papers, 55% additional semester exams, 20% problem solving. The 20% of the course grade for problem solving involves course work done in the classroom - most assignments will be found in the course packet.

Exam Format: Exams are a combination of short answer questions, calculations and graphing, and multiple choice questions.

PSTL 1004 Statistics

4 credit(s); prereq Intermediate algebra or equiv or placement exam credit will not be granted if credit received for: GC 1454 or Stat 1001; Meets CLE req of Mathematical Thinking Core;

Instructor: Duranczyk, Irene M

Description: We will explore statistics in four ways: 1) exploring the use of statistics and statistical techniques including the

organization and presentation of data, summary statistics, sampling, sampling distributions, probability, estimation, correlation, hypothesis testing, contingency tables, and chi-square analysis; 2) analyzing statistical reasoning associated with democracy and citizenship in the United States; 3) demonstrating the use of statistics when considering how race, class, gender, disability, religion, immigration, and sexual orientation in the U.S. can "position" people for democratic citizenship or disengagement; and 4) communicating and problem solving in words and mathematical presentations statistical principles, concepts, and their application through the collection, analysis, and interpretation of data. This class will primarily use small group discussion and activities to explore and practice the principles of statistics. Statistical software will be used weekly for in-class and out-of-class activities. There will be weekly reading, writing, and mathematical assignments to prepare for class discussions and activities. In class activities will culminate in an in-depth small group project. As appropriate course material and supplemental materials will be posted in Web Vista. Upon successful completion of this course you should have improved skills in critical thinking and in constructing, analyzing, and interpreting statistical presentations of data and phenomena. Students will develop a level of statistical literacy that enables them to critically assess information encountered in the media and other sources. This course will be of particular interest to undergraduates who want to fulfill the CLE requirement in Mathematical Thinking.
Style: 25% Lecture, 20% Discussion, 45% Small Group Activities, 10% Student Presentation.
Grading: 30% mid exam, 20% reports/papers, 10% quizzes, 10% written homework, 10% journal, 10% reflection paper, 10% in-class presentation. Application of knowledge and problem solving are a part of the assignments, exams, papers, and presentations.
Exam Format: Exams are a combination of short answer questions, problem solving, calculations, graphing and may include some multiple choice.

PSTL 1006 Mathematical Modeling and Prediction

3 credit(s); prereq Three yrs high school math or grade of at least C+ in [0731 or 0732] or placement test score or instr consent ; Meets CLE req of Mathematical Thinking Core;
Instructor: Robertson,Douglas Frederick
Description: Student may contact the instructor or department for information.

PSTL 1006 Mathematical Modeling and Prediction

3 credit(s); prereq Three yrs high school math or grade of at least C+ in [0731 or 0732] or placement test score or instr consent ; Meets CLE req of Mathematical Thinking Core;
Instructor: Stottlemeyer PhD,Janet
Description: This course is part of a learning community with geology and as such will focus part of the time on specific geological data and the graphs and mathematical models associated with that subject. It is a mathematical thinking course that primarily uses mathematical models to describe real world data and demonstrate the uses of mathematical manipulations. Data are described by a mathematical model and a graphical rendering. These models are then used to make predictions. Applications of linear, polynomial, exponential and logarithmic functions will be explored. Probability will also be introduced. Students will develop algebraic and critical thinking skills while observing and analyzing the behavior of real-world data . The foundations of counting and probability will be integrated into the modeling activities. When students have successfully completed this class, they will be able to develop, select, and fine-tune equations and use probabilities to represent a wide variety of situations using real world applications and applying a model to the data with mathematics, both equations and graphs. There will be lecture, demonstrations, individual in class work, and small group work in the class.
Style: 80% Lecture, 10% Laboratory, 10% Demonstration.
Grading: 20% final exam, 40% special projects, 10% written homework, 30% additional semester exams.

PSTL 1006 Mathematical Modeling and Prediction

3 credit(s); prereq Three yrs high school math or grade of at least C+ in [0731 or 0732] or placement test score or instr consent ; Meets CLE req of Mathematical Thinking Core;
Instructor: Staats,Susan K

Description: Students will use algebra to create equations and graphs that describe real world data and situations. Students will learn to use these mathematical models to make predictions, to evaluate error and to link observed phenomena with algebraic processes. The course is both theoretical and practical. It focuses on applications of linear, polynomial, rational, exponential, logarithmic and logistic equations.

PSTL 1051 Editing for Writers

2 credit(s);

Instructor: Rojas Collins,Molly C

Description: 1051 is an editing class for non-native speakers of English in which students are guided in how to analyze their writing in order to understand their own patterns of error. Explicitly focused on language.

PSTL 1051 Editing for Writers

2 credit(s);

Instructor: Fitzpatrick,Renata Marie

Description: 1051 is an editing class for non-native speakers of English in which students are guided in how to analyze their writing in order to understand their own patterns of error. Explicitly focused on language.

PSTL 1081 Integrated Learning in the Social Sciences

A-F only, 2 credit(s), max credits 4; prereq Concurrent registration in social science course, adviser approval;

Instructor: Babulal,Ganesh Muneshwar

Description: Intensive support for mastering concepts and skills presented in PSTL 1281: Principles of Psychology with which it is paired. Includes methods for effectively engaging disciplinary content through critical thinking, field-specific vocabulary , core concepts, writing and presentation styles associated with disciplinary content. Students will work to develop reading and writing skills that will not only assist them in this class, but also throughout the course of their college careers. Students will participate in a variety of reading and writing lessons and collaborative group discussions. This course is intended to aid students in learning how to respond critically and comprehensively to readings, quizzes and class discussions, while displaying their own opinions and mastery of course work.
Style: 10% Lecture, 10% Film/Video, 40% Discussion, 30% Small Group Activities, 5% Student Presentation, 5% Guest Speakers.
Grading: 10% reports/papers, 20% quizzes, 33% attendance, 20% journal, 7% in-class presentation, 10% class participation.

PSTL 1082 Integrated Learning in the Sciences

A-F only, 2 credit(s), max credits 6, 3 completions allowed; prereq Concurrent registration in science course, adviser approval;

Instructor: Dara,Syed T

Description: Intensive support for mastering concepts and skills presented in PSTL 1131: Principles of Biological Science with which it is paired. Emphasis on effectively engaging disciplinary content by providing sustained time and attention to scientific research methods, field-specific vocabulary, core concepts, writing and presentation styles associated with disciplinary content.

PSTL 1086 The First-Year Experience

A-F only, 2 credit(s);

Instructor: Higbee,Jeanne Louise

Description: PSTL 1086 is a 2-credit-hour course that serves as an introduction to higher education and as an ongoing orientation to the University of Minnesota. The course is designed to assist students in making the transition to college life and to enhance self-awareness. The course provides opportunities to examine the challenges associated with the first-year of college in an atmosphere that is inclusive for all learners. The purpose of this course is to increase the likelihood that students' first and future years at the University of Minnesota will be successful.

Specifically, participation in this section of 1086 will help student-athletes connect with many of the resources that are necessary for success both in the classroom and in their sport while also assisting students in exploring issues associated with being a student-athlete at a Big 10 institution.

PSTL 1131 Principles of Biological Science

4 credit(s); Meets CLE req of Biological Sciences/Lab Core;

Instructor: Hatch, Jay Tudor

Description: This is a learner-centered introductory level course that guides you toward developing your own understanding of the preeminent principles of biology, including Ecology, Biodiversity, Evolution, Genetics, Cell Theory, and the Molecular Basis of Life. But, we strive to have you do so in the context of your own daily living, being ever mindful that all living things are connected in an intricate web of life, and that how you live your life affects the nature of that web. So, how do we begin? By asking questions and developing answers. Here's some questions we'll try to answer from a scientific point of view (and don't worry, you'll get to ask and answer your own questions as well). Who are you? Are we alone in the universe? Want to have a clone? Is there really such a thing as race? Are you only as smart as your genes? Is creationism an alternative to evolution? Is the earth warming? Are we creating a biodiversity crisis? Is social justice possible? How might a shark save my life? We will spend much of our time in the classroom working on small-group activities designed to develop answers to the questions based on what we already know (or think we do) and new knowledge that we are constructing. Sometimes there will be short (10-minute) lectures to help out with difficult concepts; and always we will take time to write about what we understand, how we came to understand it, and what we still don't understand. In the laboratory, you will work in cooperative pairs, focusing on the process of science; that is, how scientists go about observation, formulating questions, transforming the questions into hypotheses, testing the hypotheses, collecting data, organizing and interpreting the data, drawing conclusions, and communicating their work to the world. There is no dissection of organisms in this course.

Style: 20% Lecture, 20% Discussion, 30% Laboratory, 30% Small Group Activities.

Grading: 16% mid exam, 17% final exam, 16% special projects, 17% class participation, 33% laboratory evaluation. Lab scoring based on weekly quiz, lab reports, written homework, and one problem set.

Exam Format: Multiple choice

PSTL 1135 Essentials of Human Anatomy and Physiology

4 credit(s); prereq credit will not be granted if credit received for: GC 1135; Meets CLE req of Biological Sciences/Lab Core;

Instructor: Jensen, Murray Stowe

Description: PSTL 1135, Essentials of Human Anatomy and Physiology, is a biological science course, with laboratory, designed to introduce college freshmen to scientific thinking and career exploration in health care, kinesiology, or other areas in the life sciences. The course is organized around body systems, e.g., the respiratory system, the nervous system, etc., and uses both fitness and disease, (e.g., diabetes, cancer, atherosclerosis, etc.) to introduce students to essential concepts in anatomy and physiology. In the lecture setting, students will take notes while listening to lectures, work in groups to solve problems, learn to interpret graphical data, and complete short writing assignments. In the laboratory, student engage in traditional dissections, e.g., brains, hearts, etc., perform inquiry-based exercises, and participate in other hands-on activities. Cooperative learning activities, e.g., cooperative quizzes, are used in both the lecture and the lab settings of the course. All students enrolled in PSTL 1135 will be required to read at least one book, such as "When the Air Hits Your Brain," outside of regular class time. The course will make considerable use of internet-based curricular materials.

Style: 60% Lecture, 30% Laboratory, 10% Small Group Activities.

Grading: 30% final exam, 10% quizzes, 30% additional semester exams, 30% laboratory evaluation.

PSTL 1163 Physics by Inquiry

4 credit(s); prereq credit will not be granted if credit received for: GC 1163; Meets CLE req of Physical Science/Lab Core;

Instructor: 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. The entire class period is a lab and there are no lectures. Students work in small groups to perform experiments, make observations, develop theories of how things work, and test those theories by performing further experiments. Students 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 explaining one's answers, but not in the sense of papers. The course places an emphasis on learning by thinking and doing.

Style: 100% Laboratory.

Grading: 15% mid exam, 20% final exam, 15% reports/papers, 15% quizzes, 15% additional semester exams, 10% journal, 5% class participation, 5% other evaluation.

Exam Format: All questions require short answers or short essays explaining an answer.

PSTL 1171 Earth Systems and Environments

4 credit(s); prereq credit will not be granted if credit received for: GC 1171; Meets CLE req of Environment Theme; meets CLE req of Physical Science/Lab Core;

Instructor: Fayon, Annia

Description: Students will learn about geologic processes through an earth systems approach that focuses on the interaction between natural cycles and society. Topics will include formation of continents and mountains, geologic time, living with natural hazards (i.e., earthquakes and volcanoes), climate changes, and natural resources. Lecture and laboratory format.

PSTL 1204 Ways of Knowing in the Social Sciences

A-F only, 4 credit(s); Meets CLE req of International Perspective Theme; meets CLE req of Social Science Core;

Instructor: Detzner, Daniel Frank

Description: Ways of Knowing in the Social Sciences is a course of studies that enables students to utilize the social science disciplines as a multidisciplinary lens for understanding major local, national, and international issues. We will explore the diverse ways that Economics, Political Science, History, Sociology, Anthropology, and Geography construct evidence and present knowledge by studying the local/global dimensions of immigration. The course examines major ideas, theories, and perspectives from each discipline while building an interdisciplinary understanding of the international dimensions of human migration. Students will learn multi-media research and presentation skills. Students interested in teaching or majoring in the social sciences gain useful information for choosing a major and teaching in a multidisciplinary field of studies. With a focus on experiential learning, students in this course will develop an interdisciplinary way of thinking that can be used to understand other major social issues.

Style: 25% Lecture, 40% Discussion, 10% Laboratory. 6 self designed field trip

Grading: 20% reports/papers, 40% quizzes, 10% in-class presentation, 10% class participation, 20% other evaluation. self designed field trips

Exam Format: multiple choice, 10 questions

PSTL 1211 Multicultural Perspectives in Sociology

4 credit(s); prereq credit will not be granted if credit received for: GC 1211; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;

Instructor: Kelly, Margaret Ellen Delehanty

Description: This course is an introduction to sociological thinking and methods of research. We will explore areas of

human interaction that include socialization, culture, stratification and inequality (on the basis of race, class, and gender) social control, and social change. During the semester we will explore these and other topics in an overview of major ideas associated with classical and modern social thought. The purpose of this course is to provide you with the basic tools to better understand (and question) our ideas, and our social world. Through the readings, we will contest everyday understandings of social issues to understand the ways in which different aspects of social life systematically differentiate by privileging and disadvantaging our participation in society. Service Learning will be required in this course.

Style: 30% Lecture, 30% Discussion, 30% Small Group Activities, 5% Student Presentation, 5% Service Learning.

Grading: 20% mid exam, 20% final exam, 20% reports/papers, 15% special projects, 5% written homework, 5% attendance, 5% in-class presentation, 10% class participation.

Exam Format: multiple-choice

PSTL 1231 U.S. History: Multicultural Perspectives

4 credit(s); prereq credit will not be granted if credit already received for: GC 1231, GC 1231W; Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core;

Instructor: Ghere, David Lynn

Description: This course address the major political, economic, social and diplomatic issues in early American History from a variety of multicultural perspectives. The historical roots of our cultural diversity, the effects of various cultures on our national development, the cultural contributions of our various citizens, and our shared struggle as a nation are examined by focusing on three themes: Creating the American People, Establishing the American Nation, and the Crisis of American Slavery. The assigned textbook and readings have been selected to provide the historical knowledge and multicultural perspectives to support the examination of those historical themes. Classroom simulations are used in the course to place the student in the role of a political or diplomatic decision maker. Documents providing multicultural perspectives are examined to stimulate class discussion while issues and events are discussed and critiqued from a variety of historical perspectives. The dynamic nature of history as a discipline will also be addressed.

Style: 50% Lecture, 10% Film/Video, 20% Discussion, 20% Small Group Activities.

Grading: 25% final exam, 25% reports/papers, 50% additional semester exams. Four semester exams each worth 50 points and each covering three chapters. Final exam has a 50 point section covering the last three chapters plus a long (50 point) essay focusing on the second half of the course.

Exam Format: Multiple choice worth 25 points and short essays worth 25 points. The final exam also has a long essay worth 50 points.

PSTL 1246 Multicultural Contexts: Engaging Citizenship and Democracy

3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Social Science Core;

Instructor: Peter, Gary E

Description: 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); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Social Science Core;

Instructor: Poch, Robert Karl

Description: The primary goal of this course is to proactively engage students in exploring the nature of citizenship in the United States, how it has changed through time, and practical ways in which we can become engaged citizens today in a multicultural society. We examine the role of individuals and groups in shaping and defining the nature of citizenship and public ethics in U.S. society and ask when and if all people in the U.S. have had equal opportunity for full citizenship. Further, we investigate and discuss what social, legal, and institutional practices impact the capacity of individuals and groups to engage in citizenship in a multicultural democracy.

PSTL 1251 Global History and Culture

4 credit(s); prereq credit will not be granted if credit received for: GC 1251; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspective Theme;

Instructor: Arendale, David R

Description: This Course Fulfills Two Graduation Requirements: CLE Diversified Core: Historical Perspectives CLE Designated Theme: International Perspectives Course Overview World History and Culture examines the 20th and 21st centuries to examine the profound and enduring ideas that have influenced the development of global, political, social, and economic systems. This course explores civilizations of the world by placing historical events, customs and cultures in a global context. The use of historical documents, computer resources, historical simulations, texts, film documentaries, small group discussions, and lecture presentations are combined to create a comprehensive view of the major world cultures. This course provides a balanced exploration of world history during the past 100 years. The course develops major concepts such as nationalism, democracy, colonialism, liberalism, socialism, communism, and fascism while tracing their impact on Europe, Asia, Africa, and the Americas. Major questions explored include: What are the forces that guide history as it unfolds? How does today's news headlines connect with the past? Is it possible to predict the near future and make personal plans as a result? Exploring these questions helps to make sense out of history and connect "then and now." Current events such as ethnic conflicts, the breakup of the Soviet Union, the modernization of Japan, China, and India, Arab/Israeli disputes, nation building in Africa, neo-colonialism and trade dependence in developing countries make sense when the past is explored and connections made with the present. Technology: Another life skill that is developed through this course is the use of technology. Like many other courses at the University, WebVista is an important Internet tool that serves as a companion to the course. Utilizing the features of WebVista will allow accessing of critical course materials (study guides, lecture outlines, information links). An additional feature of this course is integrating the use of blogs, wikis, and podcasting into the course. As a class we will construct a weekly audio podcast that features a review of the history topics as well as include music selected by students. Check out the podcast at <http://thenandnow.org> It can be subscribed through iTunes. You can also sample the podcast by clicking on the web link on that web page. Also, the class will construct online its own study guide for the major exams. Check out the website at <http://myworldhistory.net> Final Words History is all around us. We observe it as well as help to create it. The only way to study history is to hold a history textbook in one hand and today's newspaper in the other. This class is about creating connections among the textbook and today's newspaper headlines. It is about making sense out of a world that sometimes seems not to make very much sense at all. I hope that you decide to join us in the class.

Style: 60% Lecture, 10% Film/Video, 15% Discussion, 10% Small Group Activities, 5% Student Presentation.

Grading: 20% mid exam, 20% final exam, 10% reports/papers, 10% special projects, 10% quizzes, 20% additional semester exams, 5% reflection paper, 5% in-class presentation. Study

guides for major exams created by students in the class and also provided by the course instructor. Also the course instructor and the enrolled students coproduce a weekly podcast that reviews the textbook chapter and class lectures.

Exam Format: Major exams have three parts: matching vocabulary, multiple-choice, and essay questions.

PSTL 1281 Principles of Psychology

4 credit(s); prereq credit will not be granted if credit received for: Psy 1001, GC 1281; Meets CLE req of Social Science Core;

Instructor: Wambach, Cathrine A

Description: Student may contact the instructor or department for information.

PSTL 1281 Principles of Psychology

4 credit(s); prereq credit will not be granted if credit received for: Psy 1001, GC 1281; Meets CLE req of Social Science Core;

Instructor: Grier-Reed, Tabitha LaShaun

Description: Student may contact the instructor or department for information.

PSTL 1281 Principles of Psychology

4 credit(s); prereq credit will not be granted if credit received for: Psy 1001, GC 1281; Meets CLE req of Social Science Core;

Instructor: Madyun, Naim Hossein

Description: In this introductory psychology course, students will describe and apply the major theoretical perspectives that guide our understanding of human behavior particularly within the contexts of education and human services. Application exercises, weekly quizzes, discussion writings and a semester project will be used to teach course content and assess how well students are able to integrate course readings and lectures into a fundamental understanding of human behavior. Students' grades will be determined by their performance on tests, the quality of their written work, and by homework, attendance and participation.

Style: 25% Lecture, 20% Discussion, 20% Small Group Activities, 35% Web Based.

Grading: 10% final exam, 10% special projects, 60% quizzes, 5% attendance, 10% reflection paper, 5% class participation.

PSTL 1312 Creating Identities Through Art and Performance

4 credit(s); Meets CLE req of Other Humanities Core;

Instructor: Buturian, Linda J

Description: "Creating Identities through Art and Performance" is an introductory course that both analyzes and creates art in order to experience how different genres of art reveal social and cultural themes that shape identity. Students will be reading and reflecting on short stories, digital stories, plays, poetry, film, music, and photography. Students will also create multimedia projects which reflect their identity through some combination of text and images.

Style: 40% Lecture, 10% Film/Video, 10% Discussion, 5% Small Group Activities, 5% Student Presentation, 10% Demonstration, 10% Studio, 5% Guest Speakers, 5% Web Based.

Grading: 20% reports/papers, 20% special projects, 10% written homework, 10% attendance, 10% reflection paper, 20% in-class presentation, 10% class participation.

PSTL 1312 Creating Identities Through Art and Performance

4 credit(s); Meets CLE req of Other Humanities Core;

Instructor: Frederickson, Tina

Description: This course is designed to develop an understanding and appreciation of the performing arts (theatre arts, oral interpretation of literature, reader's theatre, storytelling/spoken word), from the perspective of viewer and participant. Emphasis is placed on in-class scene/literature analysis and readings from a variety of genres, authors, and voices, both classical and contemporary, journal writing, play critiques, peer feedback, group interaction and discussion, and out of class observations. Other key components include attending local theatre productions, a theater tour, and interactions with guest artists from the Twin Cities performing

arts community. Students will be on their feet, active and moving, most every class in class.

Style: 5% Lecture, 10% Film/Video, 20% Discussion, 15% Small Group Activities, 30% Student Presentation, 15% Field Trips, 5% Guest Speakers.

Grading: 20% final exam, 20% reports/papers, 20% written homework, 10% attendance, 10% journal, 20% in-class presentation.

PSTL 1365W Literatures of the United States: Multicultural Perspectives

4 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;

Instructor: Buturian, Linda J

Description: Literatures of the U.S.: Multicultural Perspectives. Students will be introduced to key concepts, terms, and techniques involved in literary study. We will read, discuss, and write about texts from the past two centuries to the present, and highlight the diversity of form, perspective, and style in U.S. literature. Our analysis will be informed by the understanding that writing rises out of specific social, historical, political, and literary contexts. We will address questions such as, which characters have political power and social standing, which don't, and how does this make for compelling literature? How does our relationship to the land, whether it is the wilderness or the built environments of a city, shape our identities, and how is this revealed through landscape and word-choice in literary texts? The course emphasizes literary analysis and fosters student development of critical thinking and interpretation through close reading of texts, class discussion, and informal and formal writing assignments. Throughout the semester students will receive feedback on their writing and will have an opportunity to revise a formal paper. We will read short stories, a novel, and poems, as well as watch spoken word performances. This is an interactive course involving class discussions and written responses to texts and visual mediums.

Style: 20% Lecture, 15% Film/Video, 25% Discussion, 15% Small Group Activities, 15% Student Presentation, 5% Field Trips, 5% Guest Speakers.

Grading: 15% mid exam, 20% reports/papers, 10% quizzes, 10% written homework, 10% attendance, 15% reflection paper, 15% in-class presentation, 5% class participation.

PSTL 1366 Literatures of the U.S.: Multicultural Perspectives

3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core;

Instructor: 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 1368 Literatures of the World: International Perspectives

3 credit(s); Meets CLE req of International Perspective Theme; meets CLE req of Literature Core;

Instructor: Cory, Kristin Anne

Description: In this course students will read novels from different parts of the world that share a focus on the experience of young people as they enter into the adult world. We will use these novels as a basis for exploring the ways that literature works and the work it does, drawing us deeper into our selves and also further into the world around us. Course work will center around small and large group discussions, activities and various formal and informal written assignments.

Style: 20% Lecture, 40% Discussion, 40% Small Group Activities.

PSTL 1371 Reading Short Stories

3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core;

Instructor: Rojas Collins, Molly C

Description: Student may contact the instructor or department

for information.

PSTL 1461 Multicultural Perspectives in Public Speaking
3 credit(s); prereq credit will not be granted if credit received for: COMM 1101, COMM 1101H, GC 1461; Meets CLE req of Citizenship/Publ Ethics Theme;

Instructor: Trites, Jill K

Description: Students develop fundamental skills, knowledge, and abilities to confidently communicate their thoughts and ideas to others in a public forum. Students prepare and present a series of informative and persuasive speeches on socially significant topics in multicultural contexts. Special focus on ethics, citizenship, voice, language. Every student will have at least ten opportunities to present during the semester, from one-minute informal presentations to eight-minute formal presentations. Three speeches will be digitally recorded, and we will utilize an on-line annotation tool called VideoANT for both self and peer critiques.

Style: 20% Lecture, 5% Film/Video, 20% Discussion, 25% Small Group Activities, 30% Student Presentation.

Grading: 20% quizzes, 15% written homework, 55% in-class presentation, 10% class participation.

Exam Format: Students have choice of taking the quizzes in two formats: (A) multiple-choice and true/false, or (B) essay.

PSTL 1461 Multicultural Perspectives in Public Speaking
3 credit(s); prereq credit will not be granted if credit received for: COMM 1101, COMM 1101H, GC 1461; Meets CLE req of Citizenship/Publ Ethics Theme;

Instructor: Dorsey, Heather Jane

Description: The purpose of this course is to introduce the student to the field of Speech Communication; to show basic theories of communication; illustrate the complicated process that is communication; and demonstrate that, through conscious choices, the student can significantly impact the effectiveness of communication. This course will aid the student in the development of communication skills and allows for assessment of personal strengths, weaknesses and barriers to communication. This, ultimately, will prepare the student to be a better communicator.

PSTL 1461 Multicultural Perspectives in Public Speaking
3 credit(s); prereq credit will not be granted if credit received for: COMM 1101, COMM 1101H, GC 1461; Meets CLE req of Citizenship/Publ Ethics Theme;

Instructor: Kelly, Margaret Ellen Delehanty

Description: Students develop fundamental skills, knowledge, and abilities to confidently communicate their thoughts and ideas to others in a public forum. Students prepare and present a series of informative and persuasive speeches on socially significant topics in multicultural contexts. Special focus on ethics, citizenship, voice, language.

PSTL 1461 Multicultural Perspectives in Public Speaking
3 credit(s); prereq credit will not be granted if credit received for: COMM 1101, COMM 1101H, GC 1461; Meets CLE req of Citizenship/Publ Ethics Theme;

Instructor: Frederickson, Tina

Description: This course is designed to develop an understanding of the fundamental principles, processes, and practices of face-to-face human communication. Core focus is on public communication; providing practical public speaking experiences and opportunities to critically analyze this rhetorical art. Emphasis is placed on frequent in-class presentations, critical and creative thinking, written critiques, readings, and group discussions. Understanding the power of speech, language, and organization of ideas to reach communicative goals is paramount.

Style: 20% Lecture, 5% Film/Video, 20% Discussion, 20% Small Group Activities, 35% Student Presentation.

Grading: 11% mid exam, 13% final exam, 18% written homework, 8% attendance, 50% in-class presentation.

PSTL 1485 Creativity: Photography
4 credit(s); prereq Own camera [35 mm w/adjustable controls preferred], UC; \$50 lab fee; Credit will not be

granted if credit has been received for: UC 1485;

Instructor: Millikan, Jeffrey B

Description: This introductory course explores conceptual, technical, and historical aspects of photography as an art form. Emphasis is on the creative process through hands-on experience as students learn about camera control, film development, enlarging, and printing in a photographic darkroom. Students receive instruction and support through individual and group discussion and critiques as they work to create a portfolio of their own images. Course includes required lab time in addition to scheduled class times. Students must have a film based camera, (35mm with adjustable controls preferred).

Style: 30% Lecture, 20% Discussion, 50% Laboratory.

PSTL 1511 Introduction to Business and Society
4 credit(s); Meets CLE req of Social Science Core;

Instructor: Kroll, Patrick A

Description: Introduction to Business and Society is a business/social science course allowing students to explore a broad range of business content from accounting to z-style management. It satisfies the University's qualification as a social science. Students use the course to help explore possible majors and business careers.

Style: 50% Lecture, 30% Discussion, 20% Small Group Activities.

PSTL 1525W First-Year Inquiry: Multidisciplinary Ways of Knowing

A-F only, 4 credit(s); Meets CLE req of Writing Intensive;

Instructor: Wambach, Cathrine A

Description: Can one person make a difference? Sometimes, if we leverage our resources! The concept of leverage originated in physics. Leverage also means using what you have to accomplish something more. In this course we will focus on how to do more with the resources we have by using tools such as levers and by organizing ourselves into groups. We will consider how groups reach tipping points?when fads take off and political paradigms shift. We will also consider when groups make good decisions and what causes group decision-making to derail.

PSTL 1525W First-Year Inquiry: Multidisciplinary Ways of Knowing

A-F only, 4 credit(s); Meets CLE req of Writing Intensive;

Instructor: Hodne, Barbara Downs

Description: JUSTICE ISN'T JUST US Reading "A Lesson Before Dying" will help us explore and express our own views of two institutional systems that clearly need people who can make a difference: the American educational system and the American justice system. But before we can stand up to make a difference in such large institutions, we must look inward to understand our beliefs and values about those institutions. For that inward look, we will discuss how education can help or hurt a person's understanding of who they are, and also consider how our courts, laws, and prisons work or do not work. Then we will look outward: we'll read contemporary stories of people's experiences in the educational and justice systems; we will read analysis articles that attempt to explain those experiences, and we will read profiles of activists trying to change those systems. Finally, our capstone project will be a collaborative activity highlighting both inward beliefs and outward action by asking students to research and publicize the work of a local person or group attempting to make changes that students in our class believe in and want to support. Acting toward justice is never acting for ourselves alone.

Style: 25% Lecture, 4% Film/Video, 40% Discussion, 20% Small Group Activities, 10% Student Presentation, 1% Guest Speakers.

Grading: 65% reports/papers, 10% written homework, 20% class participation, 5% other evaluation. Advising component: attend six advising workshops and one individual meeting with advisor.

PSTL 1525W First-Year Inquiry: Multidisciplinary Ways of Knowing
A-F only, 4 credit(s); Meets CLE req of Writing Intensive;

Instructor: Detzner, Daniel Frank

Description: Critical moments are turning points where something shifts and the shift can have ripple effects that change the trajectory of a person's life, community, nation and world. This course explores the question, "Can one person make a difference?" through the themes of story, context, and choice as they relate to critical moments. Using materials from the social sciences, humanities, and theatre arts we will explore the complexity of critical moments through contemporary and historical lenses with specific attention to genocide in Rwanda, Hurricane Katrina, and the Salem Witch trials. The capstone project will include telling your own story using biographical objects, examining the narrative story of others and creating collaborative group performances. No previous training or experience in theatre arts is required.

PSTL 1525W First-Year Inquiry: Multidisciplinary Ways of Knowing

A-F only, 4 credit(s); Meets CLE req of Writing Intensive;

Instructor: Jensen, Murray Stowe

Description: It's clear that food plays an integral part in our daily lives, but how much do you know about that burger you just ate? Will a healthy diet help you live longer? Can food really bring people together and resolve conflicts? In this course, team taught by a biologist, a social scientist, and a lawyer, we'll examine food through a variety of perspectives - scientific, sociological/psychological, literary, legal - to come to a better understanding of its impact on our world. Using writing, discussion, oral presentations, and other mediums, we'll consider the following question: Can you, either individually or working with others, make a difference by educating yourself and others about where food comes from and how to make informed choices about what you eat? We'll read and discuss Paul Rusesabagina's autobiography about the 1994 Rwandan genocide, *An Ordinary Man*, to explore how food and hospitality can make a life-saving difference in a difficult situation, as well as other food-related texts from a range of disciplines. At the end of the semester, students will collaborate in small groups to present a final capstone project on a food-related subject to the class (and possibly to the larger College of Education and Human Development academic community).

PSTL 1525W First-Year Inquiry: Multidisciplinary Ways of Knowing

A-F only, 4 credit(s); Meets CLE req of Writing Intensive;

Instructor: Stebleton, Michael J

Description: It's clear that food plays an integral part in our daily lives, but how much do you know about that burger you just ate? Will a healthy diet help you live longer? Is fast food really that bad for you? How does food bring people together? How is food production and safety regulated by the government? In this course, team taught by a biologist, a social scientist, and a lawyer, we'll examine food through a variety of perspectives - scientific, sociological/psychological, literary, legal - to come to a better understanding of its impact on our world. Using food-related texts from a variety of disciplines as well as writing, discussion, oral presentations, and other mediums, we'll consider the following question: How can you, either individually or working with others, make a difference by educating yourself and others about where food comes from and how to make informed choices about what you eat? At the end of the semester, students will collaborate in small groups to present a final Capstone Project on a food-related subject to the larger College of Education and Human Development academic community.

PSTL 1525W First-Year Inquiry: Multidisciplinary Ways of Knowing

A-F only, 4 credit(s); Meets CLE req of Writing Intensive;

Instructor: Cory, Kristin Anne

Description: All of our actions, whether deliberate and carefully considered or reactive and unconscious, have consequences and effects. In this course, we are interested in understanding the ways our actions can make important differences. We will question whether the individual is always the agent for change, or whether the context that surrounds the individual helps or hinders social action. The instructors will bring their backgrounds

in law, writing, literature, American studies, and working with multilingual students to examine how experiences and stories are represented in art, literature, legal cases, and film. Student work will culminate in a multi-media capstone project that invites them to document a person or community that is making a difference.

PSTL 1525W First-Year Inquiry: Multidisciplinary Ways of Knowing

A-F only, 4 credit(s); Meets CLE req of Writing Intensive;

Instructor: Trites, Jill K

Description: All of our actions, whether deliberate and carefully considered or reactive and unconscious, have consequences and effects. In this course, we are interested in understanding the ways our actions can make important differences. We will question whether the individual is always the agent for change, or whether the context that surrounds the individual helps or hinders social action. The instructors will bring their backgrounds in law, writing, literature, American studies, and working with multilingual students to examine how experiences and stories are represented in art, literature, legal cases, and film. Student work will culminate in a multi-media capstone project that invites them to document a person or community that is making a difference.

PSTL 1525W First-Year Inquiry: Multidisciplinary Ways of Knowing

A-F only, 4 credit(s); Meets CLE req of Writing Intensive;

Instructor: Madyun, Naim Hossein

Description: Can one person make a difference? Sometimes, if we leverage our resources! The concept of leverage originated in physics. Leverage also means using what you have to accomplish something more. In this course we will focus on how to do more with the resources we have by using tools such as levers and by organizing ourselves into groups. We will consider how groups reach tipping points? when fads take off and political paradigms shift. We will also consider when groups make good decisions and what causes group decision-making to derail.

PSTL 1525W First-Year Inquiry: Multidisciplinary Ways of Knowing

A-F only, 4 credit(s); Meets CLE req of Writing Intensive;

Instructor: Hsu, Leon

Description: Can one person make a difference? Sometimes, if we leverage our resources! The concept of leverage originated in physics. Leverage also means using what you have to accomplish something more. In this course we will focus on how to do more with the resources we have by using tools such as levers and by organizing ourselves into groups. We will consider how groups reach tipping points? when fads take off and political paradigms shift. We will also consider when groups make good decisions and what causes group decision-making to derail.

PSTL 1525W First-Year Inquiry: Multidisciplinary Ways of Knowing

A-F only, 4 credit(s); Meets CLE req of Writing Intensive;

Instructor: Poch, Robert Karl

Description: All of our actions, whether deliberate and carefully considered or reactive and unconscious, have consequences and effects. In this course, we are interested in understanding the ways our actions can make important differences. We will question whether the individual is always the agent for change, or whether the context that surrounds the individual helps or hinders social action. The instructors will bring their backgrounds in law, writing, literature, American studies, and working with multilingual students to examine how experiences and stories are represented in art, literature, legal cases, and film. Student work will culminate in a multi-media capstone project that invites them to document a person or community that is making a difference.

PSTL 1571 Computer Literacy and Problem Solving

4 credit(s); prereq credit cannot be granted if credit has already been received for: 1573, or 1574; Credit will not be granted if credit has been received for: DHA 1203;

Instructor: Robertson, Douglas Frederick

Description: Students learn concepts and develop competencies in computer technologies most often used in social sciences and in business to help solve problems. Topics include using advanced word processing techniques to create complex written documents such as reports (including character and paragraph style sheets, mailmerge, formatting, tables, graphics, cross-references, headers, footnotes, and indexes), using an electronic spreadsheet to analyze data (including formulas, IF/THEN/ELSE, LOOKUP, different types of graphs, formatting), using a database management program to store, organize, and query data (including creating customized databases, modifying database structure, data verification and formatting, creating forms and reports, exporting/importing data, data extraction), and using presentation software to communicate ideas and findings in a multimedia format (including text, clipart, photos, tables, animations, and audio) to larger groups. Integration of the four applications is introduced. This is a computer-mediated course and there are no lectures. The instructor helps students individually during class as they work on course projects. Course uses Microsoft Office 2007 for Windows.

Style: Students work on computers, get help from instructor.

Grading: 30% mid exam, 35% final exam, 35% written homework.

Exam Format: Exams done on the computers in the classroom. Students modify documents as instructed.

PSTL 1902 Freshman Seminar: Cultural Diversity
3 credit(s); prereq freshman; Credit will not be granted if credit has been received for: PSTL 1901; Meets CLE req of Cultural Diversity Theme;
Instructor: Yahnke, Robert Eugene
Description: Student may contact the instructor or department for information.

PSTL 1908W Freshman Seminar: Citizenship and Public Ethics
3 credit(s); prereq freshman credit will not be granted if credit received for: 1906, 1907, 1909; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Writing Intensive;
Instructor: Peter, Gary E
Description: This writing intensive freshman seminar will explore the treatment of legal themes in literary texts, films, 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.
Style: 10% Lecture, 10% Film/Video, 40% Discussion, 25% Small Group Activities, 15% Student Presentation.
Grading: 45% reports/papers, 25% special projects, 10% reflection paper, 10% in-class presentation, 10% class participation.

PSTL 1993 Directed Study
1-8 credit(s), max credits 8, 1 completion allowed; prereq instr consent, college consent ;
Instructor: Kroll, Patrick A
Description: Student-initiated project in consultation with faculty monitor. Student determines topic, sets goals, designs a course of study, and finds an appropriate faculty member to work with collaboratively.

PSTL 1996 Internship
1-8 credit(s), max credits 8, 1 completion allowed; prereq

instr consent, college consent;

Instructor: Dorsey, Heather Jane

Description: Skills, techniques, and research in disciplinary content associated with college teaching. Goals/functions of public/community agencies. Career goals. Internships supervised by faculty monitor and site supervisor.

PSTL 3050 Exploring Facilitated Peer Learning Groups
S-N only, 1 credit(s); prereq 30 cr;
Instructor: Arendale, David R
Description: This course explores peer learning groups and the factors that enhance their effectiveness including: facilitating the learning process, integrating learning skill development and content knowledge acquisition, and application of appropriate theories of learning. The course is designed to connect the experience of serving as a facilitator of a peer learning group with a deeper examination of the underlying assumptions, learning theories, active learning strategies, group management protocols, and best practices in education.

PSTL 5050 Reflecting on Professional Development Through Facilitating Peer Learning Groups
S-N only, 1 credit(s); prereq 90 cr;
Instructor: Arendale, David R
Description: Student may contact the instructor or department for information.

PSTL 5106 Multicultural Teaching and Learning in Diverse College Contexts
A-F only, 3 credit(s); prereq Grad student;
Instructor: Miksch, Karen L
Description: This graduate course provides an overview of the issues, principles, and practices associated with effective college teaching in diverse postsecondary contexts. Students will explore theory and pedagogy as they relate to culturally responsive teaching from the perspectives of both the teacher and the learner in postsecondary settings. In addition to exploring teachers' and students' diverse and multiple social identities and a variety of student learning styles, course topics will include Critical Multicultural Education (CME), Social Justice Education (SIJ), Universal Instructional Design (UID), Integrated Multicultural Instructional Design (IMID), problem-based learning, inquiry-based teaching, and other models for ensuring engagement and inclusion. The interaction of theory and practice is an important theme (and challenge) of the course. Students will have the opportunity to conduct classroom observations and design a syllabus as well as lead discussions.
Style: 70% Discussion, 20% Small Group Activities, 10% Student Presentation.
Grading: 50% reports/papers, 30% reflection paper, 10% in-class presentation, 10% class participation.

PSTL 5212 Multicultural Theories of College Student Development Applied to Teaching and Learning
A-F only, 3 credit(s); prereq Grad student;
Instructor: Higbee, Jeanne Louise
Description: Student may contact the instructor or department for information.

Preventive Science Minor

Institute of Child Development

PREV 8005 Prevention Science Capstone Course
OPT No Aud, 1 credit(s); prereq 8001;
Instructor: Reynolds, Arthur J.
Description: Student may contact the instructor or department for information.

Program for Individualized Learning

20 Classroom Office Building

PIL 3251 Project 1 Seminar

S-N only, 5 credit(s); prereq PIL student, dept consent ;
Instructor: Hanson PhD,JoAnn Marie
Description: Student may contact the instructor or department for information.

12% class participation.

Exam Format: multiple choice exams

Prosthodontics

9-450 MoosT

PROS 7110 Classic Prosthodontic Literature Review

A-F only, 2 credit(s); prereq instr consent ;
Instructor: Holtan,James R
Description: Student may contact the instructor or department for information.

PROS 7200 Advanced Clinical Prosthodontics I

A-F only, 5 credit(s); prereq instr consent ;
Instructor: Holtan,James R
Description: Student may contact the instructor or department for information.

Psychology

N-218 Elliott Hall

PSY 1001 Introduction to Psychology

4 credit(s); Credit will not be granted if credit has been received for: PSY 1001H; Meets CLE req of Social Science Core;
Instructor: Brothen,Thomas
Description: Student may contact the instructor or department for information.

PSY 1001 Introduction to Psychology

4 credit(s); Credit will not be granted if credit has been received for: PSY 1001H; Meets CLE req of Social Science Core;
Instructor: Brothen,Thomas
Description: (Description forthcoming.)
Style: WebCT Internet exercises and quizzes

PSY 1001 Introduction to Psychology

4 credit(s); Credit will not be granted if credit has been received for: PSY 1001H; Meets CLE req of Social Science Core;
Instructor: Briggs,Kathleen Helen
Description: Psy 1001 (4 credits),a prerequisite for all advanced Psychology courses, introduces the scientific study of human behavior and mind. Students meet three times a week for multi-media megaclass lectures given by a team of faculty and once a week in small activity-oriented discussion sections. The course focuses on scientific explanations and real world examples of how individuals understand and make sense of their world and experiences. We focus on the problems, methods and research findings of psychology and introduce students to the biological basis of behavior; physical, emotional and cognitive development; models of learning, memory, and representation of the world; individual differences in personality and intelligence; abnormal behavior and treatment and social influences on individual behavior. In addition, Psy 1001 has a writing component to encourage students in the skills of academic discourse. Eight times during the term each section of students participate in an on-line discussion of a controversy in Psychology and write a brief paper summarizing their conversation. The skills practice include developing a hypothesis, providing supporting evidence, critically evaluating the evidence provided by others, listening and responding respectfully to the conclusions and evidence of others.
Style: 70% Lecture, 30% Discussion. multi-media presentations and activities
Grading: 40% mid exam, 28% final exam, 20% reports/papers,

PSY 1001 Introduction to Psychology

4 credit(s); Credit will not be granted if credit has been received for: PSY 1001H; Meets CLE req of Social Science Core;
Instructor: Luciana,Monica Marie
Description: Student may contact the instructor or department for information.

PSY 1001H Honors Introduction to Psychology

4 credit(s); prereq Honors; Credit will not be granted if credit has been received for: PSY 1001; Meets CLE req of Social Science Core;
Instructor: Brothen,Thomas
Description: (Description forthcoming.)
Style: WebCT Internet exercises and quizzes

PSY 1001H Honors Introduction to Psychology

4 credit(s); prereq Honors; Credit will not be granted if credit has been received for: PSY 1001; Meets CLE req of Social Science Core;
Instructor: Briggs,Kathleen Helen
Description: (Description forthcoming.)
Style: WebCT Internet exercises and quizzes

PSY 1905 Freshman Seminar: What is the Human Mind?

A-F only, 3 credit(s); prereq freshman;
Instructor: Marsolek,Chad James
Description: You are reading the description of a seminar. That is, some part of you is capable of taking a series of shapes as visual input, abstracting intended meaning from them, organizing the information, and evaluating it (e.g., ?fascinating seminar!?). Your mind accomplishes this task, not your lungs or heart. What is this ?mind? that is capable of such complex internal information processing? Is it just a flurry of activated brain cells, or something non-physical? One of the most intriguing aspects of the universe is that you can think, that minds operate as entities apparently crucially tied to physical brains but are also importantly different. In this seminar, we will examine conceptions of the human mind from psychological, philosophical, and neuroscientific perspectives. Can science and critical analysis offer a concrete and compelling specification of the human mind?

PSY 1905 Freshman Seminar: Psychology of Eating and Body Image

A-F only, 3 credit(s); prereq freshman;
Instructor: Mann,Traci Lynn
Description: This seminar covers the continuum of human eating behavior, from hunger, starvation, and restraint, to binge eating and obesity, as well as body image and eating disorders. I hope that during this seminar we can call into question several myths about eating and obesity that you may believe. We will discuss the media?s influence on body image, as well as the development of body image concerns and eating disorders. We will read about the famous starvation study conducted on this very campus over 60 years ago, as well as the causes and consequences of obesity. We will learn about the effectiveness of diets (or lack thereof!), and about the little things that may be influencing our eating without our realizing it. We will talk about solutions to these problems, and about what healthy eating really is.

PSY 1910W Freshman Seminar: Movies & Madness: Media Portrayals of Abnormal Psy

A-F only, 3 credit(s); prereq Fr; Meets CLE req of Writing Intensive;
Instructor: Luciana,Monica Marie
Description: Student may contact the instructor or department for information.

PSY 2801 Introduction to Psychological Measurement and Data Analysis

3 credit(s); prereq High school algebra, [PSY 1001 or equiv];

intended for students who plan to major in psychology;

Meets CLE req of Mathematical Thinking Core;

Instructor: Holman,Ray

Description: Student may contact the instructor or department for information.

PSY 2801 Introduction to Psychological Measurement and Data Analysis

3 credit(s); prereq High school algebra, [PSY 1001 or equiv];

intended for students who plan to major in psychology;

Meets CLE req of Mathematical Thinking Core;

Instructor: Babcock,Ben G

Description: We will cover basic statistical concepts like means, variability, null hypothesis testing, testing mean differences, linear regression and more. The lecture for this class will be mostly conceptual, and the labs will teach you the tools you will need for application. We may even have a few laughs along the way! The URL is from the Fall 2007 course.

Grading: There are 3 exams total, each worth around 1/4 of your grade. The other portion of your grade comes from completing homework assignments and ungraded quizzes.

Exam Format: Fill in the blank, multiple choice, and short answer questions are on the exams.

PSY 2801 Introduction to Psychological Measurement and Data Analysis

3 credit(s); prereq High school algebra, [PSY 1001 or equiv];

intended for students who plan to major in psychology;

Meets CLE req of Mathematical Thinking Core;

Instructor: Filson Moses,Jennifer Michelle

Description: PSY 2801 is specifically designed for students who plan to major in psychology. It is an introduction to the basic concepts and procedures related to the measurement and analysis of psychological variables. The main focus of the course will be learning the appropriate selection and use of statistical tools to describe and evaluate results of psychological research. The course is designed to be approachable to students from a wide variety of "math" backgrounds and we endeavor to help even the most math-phobic!

Style: 66% Lecture, 34% Laboratory.

Grading: 20% mid exam, 20% final exam, 40% written homework, 20% additional semester exams.

PSY 2801 Introduction to Psychological Measurement and Data Analysis

3 credit(s); prereq High school algebra, [PSY 1001 or equiv];

intended for students who plan to major in psychology;

Meets CLE req of Mathematical Thinking Core;

Instructor: Nydick,Steven Warren

Description: Student may contact the instructor or department for information.

PSY 2801H Honors Introduction to Psychological Measurement and Data Analysis

3 credit(s); prereq [1001 or equiv], honors; intended for students who plan to major in psychology; Meets CLE req of Mathematical Thinking Core;

Instructor: Klieger,David Marc

Description: Student may contact the instructor or department for information.

PSY 3001W Introduction to Research Methods

3 credit(s); prereq [1001, [2801 or 2801H]] or department consent; Credit will not be granted if credit has been received for: PSY 3005V; Meets CLE req of Writing Intensive;

Instructor: Stellmack,Mark A

Description: PSY 3001W is an introduction to the basic concepts and procedures used to conduct and evaluate research in Psychology. Emphasis is placed on understanding traditional research methods, applying sound experimental techniques in order to produce interpretable results, and evaluating scientific claims. PSY 3001W is a writing intensive (WI) course and satisfies a Liberal Education social science requirement. As such, students will complete a number of writing assignments, culminating in an APA style research report. This course meets

the writing intensive requirement stating that at least 33% of the student's final grade must be based upon student writing.

Prerequisites: PSY 1001 (Intro Psychology), PSY 2801 (Intro to Psychological Measurement and Data Analysis), and at least sophomore standing.

Style: 50% Lecture, 50% Laboratory.

Grading: 15% mid exam, 25% final exam, 40% reports/papers, 10% written homework, 10% laboratory evaluation.

PSY 3001W Introduction to Research Methods

3 credit(s); prereq [1001, [2801 or 2801H]] or department consent; Credit will not be granted if credit has been received for: PSY 3005V; Meets CLE req of Writing Intensive;

Instructor: Kvidera,Sara L

Description: Student may contact the instructor or department for information.

PSY 3001W Introduction to Research Methods

3 credit(s); prereq [1001, [2801 or 2801H]] or department consent; Credit will not be granted if credit has been received for: PSY 3005V; Meets CLE req of Writing Intensive;

Instructor: Gunty,Amy Louise

Description: Student may contact the instructor or department for information.

PSY 3011 Introduction to Learning and Behavior

3 credit(s); prereq 1001;

Instructor: Peterson,Gail Burton

Description: Basic laboratory methods, fundamental phenomena, theoretical analyses, and summary principles from the field of learning and behavior change. Survey of major 20th century theorists and their distinctive perspectives, as well as introduction to contemporary descriptive and explanatory models. General introduction to classic issues in basic philosophy of science and critical analysis common to all empirical sciences.

Style: 90% Lecture, 10% Discussion.

Grading: 60% mid exam, 40% final exam.

Exam Format: Essay and multiple choice. Final is all multiple choice.

PSY 3031 Introduction to Sensation and Perception

3 credit(s); prereq 1001;

Instructor: Burkhardt,Dwight A

Description: This course is concerned with understanding how humans and animals perceive and respond to the external world. It thus deals with "universals" spanning generations, cultures, civilizations and the biological kingdom. Vision and hearing are emphasized. The approach includes psychological experiments on human perception as well as the study of nerve cells and the brain in animals and humans. The general question -of how we perceive the sensory world- is a central question in psychology and contemporary neuroscience. Topics: Taste, Neurons and Brain. Olfaction. Touch. Pain. Hearing: Speech and Brain. Music Perception. Eye and images. Visual adaptation. Contrast perception. Perception of Form. Structure and function of nerve cells in the retina and visual brain. Perception of Depth and Size and Movement. Illusions. Color vision in humans and animals. Target students: Psychology majors, Liberal Arts undergraduates in general (juniors and seniors) with interest and introductory background in psychology and/or neuroscience. Representative text: Goldstein, E.B.. (1998). Sensation and Perception. 5th edition. Brooks/Cole.

Style: 100% Lecture.

Grading: 60% mid exam, 40% final exam.

Exam Format: multiple choice

PSY 3051 Introduction to Cognitive Psychology

3 credit(s); prereq 1001; Meets CLE req of Social Science Core;

Instructor: Denkinger,Ben

Description: Student may contact the instructor or department for information.

PSY 3061 Introduction to Biological Psychology**3 credit(s); prereq 1001 or Biol 1009; Credit will not be granted if credit has been received for: PSY 5061;****Instructor:** Gewirtz,Jonathan C

Description: Class Description: 1) Provide an overview of neuroanatomy, neurophysiology, and basic principles of biopsychological investigations. 2) Review current knowledge of the biological bases of a wide range of phenomena (including sensation/perception, learning/memory, language, stress, and sleep), and psychiatric disorders (including depression and drug abuse). Objectives: Students should become comfortable with the basic details of brain function, gain a general understanding of the biology of behavior and neurological/psychiatric disorders, and develop skills to understand techniques and evaluate results of neurobiological and behavioral experiments. Lecture Style: Lectures will review some of the topics covered in the readings, but will also include related information not covered in the texts. Class discussions, and videos will supplement some of the lectures. Assigned readings should be completed before class.

Style: 85% Lecture, 15% Discussion.**Grading:** 66% mid exam, 24% final exam, 10% quizzes.**Exam Format:** multiple choice

influence your physical health? And how does your physical health influence how you feel psychologically? We will try to answer such questions as: Are certain personality types more likely to get sick, or to get certain illnesses? What does stress do to your health? What psychological and social factors cause people to behave in unhealthy ways? What helps people adjust to illness? do your social relationships affect your health? What can psychologists do to help cure illness? Who is healthier, men or women? Are there ethnic variations in health? How can we help people who are in pain without getting them addicted to pain-killers? Does it matter how your doctor talks to you? Does being bereaved make you ill? How is psychology related to dieting?

Style: 75% Lecture, 10% Film/Video, 10% Demonstration, 5% Guest Speakers. Students will collect some data on themselves in class.**Grading:** 50% mid exam, 40% final exam, 10% written homework. There are 2 midterms, each worth 25%**Exam Format:** Multiple Choice**PSY 3101 Introduction to Personality****3 credit(s); prereq 1001; Credit will not be granted if credit has been received for: PSY 5101;****Instructor:** DeYoung,Colin G

Description: This course provides a broad overview of theory and research in the field of personality psychology. Personality psychology addresses some of the most central and interesting questions in psychology: Why do people think, feel, and act in the ways they do? What makes people different from each other? What are the essential components of an individual's personality? This course discusses answers to these questions as they have been formulated from the beginnings of psychology, over a century ago, up to the present time, drawing on up-to-date research to suggest which theories are likely to be empirically valid. Students should get a sense of the various approaches to personality psychology as different perspectives integrated into a larger story about the extent of our understanding of the structure, dynamics, and sources of personality.

PSY 3135 Introduction to Individual Differences**3 credit(s); prereq 2801 or 2801H or instr consent ; Credit will not be granted if credit has been received for: PSY 5135;****Instructor:** Bouchard Jr,Thomas J

Description: Differential methods in studying human behavior. Overview of psychological traits. Influence of age, sex, heredity, and environment in individual/group differences in ability, personality, interests, and social attitudes.

PSY 3201 Introduction to Social Psychology**4 credit(s); prereq 1001 or instr consent;****Instructor:** Fisher,Emily L

Description: Overview of theories/research in social psychology. Emphasizes attitudes/persuasion, social judgment, the self, social influence, aggression, prejudice, helping, and applications.

Style: 75% Lecture, 25% Discussion.**Grading:** 20% mid exam, 30% final exam, 15% reports/papers, 20% additional semester exams, 15% reflection paper.**PSY 3201 Introduction to Social Psychology****4 credit(s); prereq 1001 or instr consent;****Instructor:** Lippmann,Brad Michael

Description: Student may contact the instructor or department for information.

PSY 3206 Introduction to Health Psychology**3 credit(s); prereq 1001;****Instructor:** Howland,Maryhope

Description: This course is designed to give you a broad overview of the field of health psychology. Health psychology is a young and exciting field of study that examines the relationship between psychology and health. How do psychological factors

PSY 3301 Introduction to Cultural Psychology**A-F only, 3 credit(s); prereq 1001; Meets CLE req of Social Science Core;****Instructor:** Bahrassa,Nazneen Feraydoon

Description: Student may contact the instructor or department for information.

PSY 3511 Introduction to Counseling Psychology**3 credit(s); prereq 1001;****Instructor:** Pituc,Stephanie T

Description: Student may contact the instructor or department for information.

PSY 3511 Introduction to Counseling Psychology**3 credit(s); prereq 1001;****Instructor:** Keenan,Nora K.

Description: This course is designed to provide an introduction to the field of counseling psychology. Broadly, topics addressed at the beginning of the course will include the history of the discipline, professions within it, and how counseling psychology distinguishes itself from other specialties within the broader fields of psychology and mental health. The bulk of the course will focus on the theories that practicing counseling psychologists and researchers use to inform their work (i.e., formulating case conceptualizations or hypotheses). Additionally, we will integrate a variety of topics of special relevance to counseling psychology throughout the course, including ethics, assessment, working with cultural diversity, empirical support for treatments, and ongoing research in the field regarding the processes underlying client change and outcomes.

PSY 3604 Introduction to Abnormal Psychology**3 credit(s); prereq 1001; Credit will not be granted if credit has been received for: PSY 5604H;****Instructor:** Weiszhaar,Orville L

Description: Student may contact the instructor or department for information.

PSY 3604 Introduction to Abnormal Psychology**3 credit(s); prereq 1001; Credit will not be granted if credit has been received for: PSY 5604H;****Instructor:** Jones,Jessica Ann Hurdelbrink

Description: Student may contact the instructor or department for information.

PSY 3604 Introduction to Abnormal Psychology**3 credit(s); prereq 1001; Credit will not be granted if credit has been received for: PSY 5604H;****Instructor:** Perlman,Greg

Description: Student may contact the instructor or department for information.

PSY 3604 Introduction to Abnormal Psychology**3 credit(s); prereq 1001; Credit will not be granted if credit has been received for: PSY 5604H;****Instructor:** Klimes-Dougan,Bonnie

Description: Student may contact the instructor or department for information.

PSY 3617 Introduction to Clinical Psychology

3 credit(s); prereq 3604 or 5604H;

Instructor: Grove, William Merrill

Description: Target audience: mostly majors, who must have taken Psy 3604 (Abnormal Psychology) or equivalent. 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, then outlines training programs (including how to get into graduate school, and what programs are like once one gets in). The rest of the course covers clinical assessment, psychological interventions, and psychopathology and treatment research. This course may help students considering a career in clinical psychology, decide whether this field appeals to them. Main text: Trull's Introduction to Clinical Psychology. Students also read about a dozen empirical research articles in a reading packet. The course is lecture and discussion format. Exams include a mid-term and a final, non-cumulative in coverage and having equal weight. Students usually consider the exams in this course fairly difficult.

Style: 80% Lecture, 20% Discussion.

Grading: 66% mid exam, 33% final exam. Actually 33% on final; and 33% each of 2 mid-semester exams

Exam Format: multiple choice

PSY 3633 Happiness: Integrating Research Across

Psychological Sciences

3 credit(s); prereq 3001W or 3001V or instr consent ;

Instructor: MacDonald III, Angus

Description: What is the nature of human happiness and fulfillment? To answer this, we will build on insights from many disciplines, including cognitive, personality and social psychology, biology and even economics. The course approaches happiness from multiple levels of analysis to build an integrative approach to the feelings that make life worth living. The course will cover the measurement of happiness, preference and utility (economic approaches), flow and states that give rise to happiness (social psychology), adaptation (personality and behavioral genetics), pleasure centers in the brain (neuroscience), addiction and depression (clinical psychology). Students will (1) Learn the constituent properties of happiness, in terms of both basic mechanisms and individual differences (2) Conceptualize everyday, relevant and ancient questions in terms of objective evidence and experiment methodologies (3) Learn to scrutinize popular and scholarly articles from diverse fields in terms of soundness of the assumptions and strength of data (4) Practice drawing together a coherent argument from diverse sources, and balance evidence appropriately.

Style: 50% Lecture, 20% Discussion, 10% Small Group Activities, 20% Student Presentation.

Grading: 40% reports/papers, 12% special projects, 12% quizzes, 12% reflection paper, 12% in-class presentation, 12% class participation. Students will read texts describing research in the area; make in-class presentations based on the readings; report on a personal experiment; and participate in class discussion. Evaluation of student performance will be based on class presentations,

PSY 3711 Introduction to Industrial and Organizational Psychology

3 credit(s); prereq 1001, [2801 or equiv];

Instructor: Davies, Stacy Eitel

Description: Student may contact the instructor or department for information.

PSY 3902W Major Project in Psychology

A-F only, 3 credit(s); prereq [2801 or equiv], [3001W or 3005W], psy major, sr; Meets CLE req of Writing Intensive;

Instructor: Niccoli-Waller, Caprice

Description: In this course, you will have the opportunity to review and reflect on some of the principles of research and writing within the field of psychology. You will also complete a writing project that is designed to let you focus on a topic of interest and to showcase your skills as a reader and potential

contributor of the psychological literature. You will attend 3 lectures at the start of the term and then work in labs under graduate student assistance. 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 3960 Undergraduate Seminar in Psychology

1-5 credit(s), max credits 45, 9 completions allowed; prereq 1001;

Instructor: Girvan, Erik J

Description: Social psychological research often has important implications outside of academia. One area in which this is particularly true is the law. Scholars, judges, lawyers, and police departments use social psychology to examine a variety of questions: When and how do juries decide to award the death penalty? When are interrogations likely to coerce false confessions? When are eyewitness identifications likely to be inaccurate? How prevalent is employment discrimination? Are police and the criminal justice system biased against minorities? Through lectures, readings, and discussion, we will explore how social psychology is used to answer these and other questions and ways that the answers have made a difference in how the judicial system operates and influences society. In doing so, we will engage students in a critical analysis of existing law and procedure as well as the ways in which social psychologists attempt to apply their work to real-world policy issues.

PSY 4994V Honors Research Practicum

4 credit(s); prereq [3005W/V or 3001W/V], honors psych; Meets CLE req of Writing Intensive;

Instructor: Fletcher, Charles R

Description: The major goals of this course are to familiarize you (as a Psychology Department honors major) with research opportunities available in the University of Minnesota Psychology Department, provide you with practical experience conducting psychological research, and prepare you to write an honors thesis in psychology. To achieve these goals you will be required to work approximately nine hours each week on a research project designed and supervised by a faculty member or graduate student, make a formal in-class presentation, and write a 10 - 15 page research report. You will also be required to attend class each week and complete the required readings and assignments before each class.

Style: 25% Lecture. work on individual research projects

Grading: 50% reports/papers, 25% in-class presentation, 25% class participation.

Exam Format: none

PSY 5012 Learning and Cognition in Animals

4 credit(s); prereq 3011 or 4011 or honors or grad student or instr consent ;

Instructor: Overmier, J. Bruce

Description: Psy 5012 Learning and Cognition in Animals (Sec 001); 4 cr; prereq 3011 or 4011 or honors or grad student or instr consent; meets DELM req of classroom Instructor: Overmier, J. Bruce Description: Are you "smarter" than a rat? How can you know? This course provides review and evaluation of historical and contemporary approaches to key questions, theories, methods, and data about different forms of learning, behavior, and elementary cognitive processes as explored in animals. Although the emphasis is on animal models, implications of the findings for insights into human learning, behavior, and cognition are considered. The course uses primarily lecture format. It is intended for advanced undergraduates and beginning graduate students in the behavioral, biological, and educational sciences. Class time: 85% lecture, 5% Closed Circuit TV, 10% Discussion Work load: 45 pages of reading per week, 3 exams Grade: 50% mid-semester exam(s), 50% final exam Exam format: multiple choice and short essay

PSY 5031W Perception

3 credit(s); prereq 3031 or 3051 or instr consent ; Credit will not be granted if credit has been received for: NSC 5031W; Meets CLE req of Writing Intensive;

Instructor: Legge,Gordon Ernest

Description: This course introduces students to known principles and contemporary theories of visual perception. The main topics include: light and vision, physiological optics, sensory coding of patterns, color vision, depth perception, object recognition, and impaired vision. The course is meant for advanced undergrads and grad students. Majors from many areas will find the course interesting, including psychology, biology, neuroscience, computer science, engineering, art, and design. Because this is a writing-intensive course (WI), some class time will be devoted to discussion of scientific writing. There will be an important focus on preparation of the term paper. For more information, see class website at <http://vision.psych.umn.edu/~gellab/5031> .

Style: 75% Lecture, 20% Discussion. Students will adopt and present an illusion in class.

Grading: 25% mid exam, 25% final exam, 30% reports/papers, 5% special projects, 5% problem solving, 10% other evaluation. Miscellaneous assignments.

Exam Format: essay, short answers and one problem to solve

methods. Behavioral applications covered include: Intelligence and mental retardation, personality, schizophrenia, affective illness, and alcoholism.

Style: 100% Lecture.

Grading: 30% mid exam, 40% final exam, 30% reports/papers.

Exam Format: Essay

PSY 5207 Personality and Social Behavior

A-F only, 3 credit(s); prereq 3101 or 3201 or honors or grad student or instr consent ;

Instructor: STAFF

Description: Conceptual/methodological strategies for scientific study of individuals and their social worlds. Applications of theory/research to issues of self, identity, and social interaction.

PSY 5207 Personality and Social Behavior

A-F only, 3 credit(s); prereq 3101 or 3201 or honors or grad student or instr consent ;

Instructor: Snyder,Mark

Description: Conceptual/methodological strategies for scientific study of individuals and their social worlds. Applications of theory/research to issues of self, identity, and social interaction.

PSY 5701 Organizational Staffing and Decision Making

3 credit(s); prereq [[2801 or equiv], 3711] or instr consent ;

Instructor: Ones,Deniz S

Description: The course deals with the application of psychological research and theory to issues in personnel recruitment and selection and the measurement of human performance. The first third of the quarter covers alternative ways to model and then measure individual performance, primarily in the context of complex job performances. However, the basic principles are meant to apply to other contexts as well. The second third deals with the issue of predicting future individual performances from current information (i.e., the personnel selection problem). Different prediction methods such as ability and personality are reviewed. Results pertaining to the accuracy of prediction, the role of cognitive abilities and personality factors, the generalization of research results across organizations are discussed. The third portion focuses on legal issues as they pertain to personnel selection and the utility of personnel selection to organizations.

Style: 80% Lecture, 20% Discussion.

Grading: 50% mid exam, 50% final exam.

Exam Format: Multiple choice and essay

PSY 5703 Psychology of Organizational Training and Development

3 credit(s); prereq [[2801 or equiv], 3711] or instr consent credit will not be granted if credit already received for: Psy 5707;

Instructor: Campbell,John P

Description: Theories, methods, and research pertaining to improving performance of individuals at work through learning and instruction. The first half of the course is devoted to methods of training needs analysis, including the analysis of expertise, and to the presentation of a comprehensive model of training and instructional design. Appropriate knowledge and skill structures, the interaction between ability level and training methods, and the influence of learner motivation are stressed. The second half deals with several major applied training problems (e.g., teaching problem solving and decision making skills, management development) and with methods for evaluating training effects. The general purposes of the course are to provide the student with a comprehensive and useful framework for how to identify training problems, design training programs and evaluate training results. The student should also gain considerable familiarity with what the field of training and development is like as a profession. The course attempts to show how many different areas of theory and research in psychology can be brought to bear on organizational training problems and issues.

Style: 60% Lecture, 30% Discussion. Guest lecture/discussion by professional from outside the University.

Grading: 45% mid exam, 45% final exam, 10% reports/papers.

Exam Format: Each exam consists of 25-28 questions from

PSY 5038W Introduction to Neural Networks

3 credit(s); prereq [[3061 or NSC 3102], [MATH 1282 or 2243]] or instr consent ; Meets CLE req of Writing Intensive;

Instructor: Kersten,Daniel John

Description: This course is an introduction to neural models used in neuroscience and cognitive science. We begin by studying linear neural systems models and their biological justification, and then build on this foundation to understand non-linear networks. Topics include Hebbian learning, self-organization, information optimization, and representation of neural information. Later in the course, neural computation is studied in the context of statistical pattern and learning theory. The course covers applications to sensory processing, perception, learning, and memory. We take a multi-disciplinary approach to neural networks, combining lectures and interactive, in-class computer programming exercises. Prerequisites: Experience with calculus, probability, linear algebra and programming is useful, however, basic linear algebra and probability will be reviewed as needed. No prior programming experience is necessary.

Grading: 16% mid exam, 16% final exam, 28% problem solving, 40% other evaluation. Final Project (3 parts: 2%, 5%, 33%)

PSY 5062 Cognitive Neuropsychology

3 credit(s); prereq 3031 or 3051;

Instructor: He,Sheng

Description: This course will survey the consequences of different types of brain damage on human perception and cognition. The goal is to understand the neural mechanisms of normal perceptual and cognitive functions. Major phenomena that will be covered include: Blindsight (seeign without awareness), Visual Agnosia (failure to recognize object), Prosopagnosia (impairments of facial recognition), Neglect (failure to attend to part of the world), the split brain, Spoken language deficits, reading and writing disorders, memory disorders, central planning deficits. The emphasis is on function and phenomenology, with minimal amount of brain anatomy. This course is aimed at undergraduate and beginning graduate students who are interested in psychology and neuroscience. Text: A.J. Parkin "Explorations in Cognitive Neuropsychology".

Style: 90% Lecture, 5% Discussion.

Grading: 30% mid exam, 50% final exam, 20% problem solving.

Exam Format: Multiple choice and short essay

PSY 5137 Introduction to Behavioral Genetics

3 credit(s); prereq 3001W or equiv or instr consent ;

Instructor: Mc Gue,Matt

Description: This course focuses on the application of genetic methods to human and animal behavior. Genetic methods discussed include both traditional methodologies like twin and adoption studies as well as cytogenetic and molecular genetic

which student must select 19-22 to be answered in a sentence or two.

PSY 5862 Psychological Measurement: Theory and Methods

3 credit(s); prereq 4801 or equiv;

Instructor: Weiss,David J

Description: Psychological measurements are used in all applied areas of psychology. Tests and other measuring instruments that quantify human behavior are used by counseling and clinical psychologists, school psychologists, industrial/organizational psychologists, and any psychological researcher doing research that involves individual differences. Psychological measurement methods are also used by researchers in a wide variety of other fields including sociology, political science, education, and medical and nursing research. Psy 5862 is concerned with the process of quantification in psychology and related fields -- why do we quantify, how do we quantify, and how do we know if our measurements (or measuring instruments constructed by others) are functioning properly? The discussion includes all types of psychological measurement instruments -- tests of ability and achievement, and scales for measuring personality, interests, and preferences. The focus is not on specific measuring instruments, but on methods and procedures that are used to develop various types of instruments. Procedures for evaluating instruments in terms of their reliability, validity, and other characteristics are emphasized. Although the material is quantitative, the presentation is primarily conceptual. However, a basic knowledge of statistics is assumed -- you should at least know what a mean and a standard deviation are and have had some exposure to the idea of correlation.

Style: 100% Lecture.

Grading: 40% mid exam, 60% final exam.

Exam Format: Essay: short- and long-answer

PSY 5960 Topics in Psychology: Introduction to Functional MRI

3 credit(s), max credits 8; prereq 1001, [jr or sr or grad student];

Instructor: Engel,Stephen A

Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology

3 credit(s), max credits 18, 6 completions allowed; prereq instr consent , dept consent ;

Instructor: Iacono,William George

Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology

3 credit(s), max credits 18, 6 completions allowed; prereq instr consent , dept consent ;

Instructor: Kersten,Daniel John

Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology

3 credit(s), max credits 18, 6 completions allowed; prereq instr consent , dept consent ;

Instructor: Frazier,Patricia Ann

Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology

3 credit(s), max credits 18, 6 completions allowed; prereq instr consent , dept consent ;

Instructor: Grove,William Merrill

Description: Research topics include clinical judgment and actuarial data combination, philosophy of statistics and scientific theory testing, and classification of the major psychiatric disorders (including categorical vs. dimensional models). Research on taxometrics (a robust form of multivariate mixture modeling) is also featured.

Grading: 100% reports/papers.

PSY 5993 Research Laboratory in Psychology

3 credit(s), max credits 18, 6 completions allowed; prereq instr consent , dept consent ;

Instructor: Simpson,Jeffrey A

Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology

3 credit(s), max credits 18, 6 completions allowed; prereq instr consent , dept consent ;

Instructor: Marsolek,Chad James

Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology

3 credit(s), max credits 18, 6 completions allowed; prereq instr consent , dept consent ;

Instructor: Rothman,Alexander John

Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology

3 credit(s), max credits 18, 6 completions allowed; prereq instr consent , dept consent ;

Instructor: Luciana,Monica Marie

Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology

3 credit(s), max credits 18, 6 completions allowed; prereq instr consent , dept consent ;

Instructor: Thomas,Mark John

Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology

3 credit(s), max credits 18, 6 completions allowed; prereq instr consent , dept consent ;

Instructor: Kuncel,Nathan Richard

Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology

3 credit(s), max credits 18, 6 completions allowed; prereq instr consent , dept consent ;

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.

Instructor: Snyder, Mark

Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology

3 credit(s), max credits 18, 6 completions allowed; prereq

instr consent , dept consent ;

Instructor: Olman, Cheryl Annette

Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology

3 credit(s), max credits 18, 6 completions allowed; prereq

instr consent , dept consent ;

Instructor: Fletcher, Charles R

Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology

3 credit(s), max credits 18, 6 completions allowed; prereq

instr consent , dept consent ;

Instructor: 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; prereq

instr consent , dept consent ;

Instructor: Schrater, Paul Robert

Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology

3 credit(s), max credits 18, 6 completions allowed; prereq

instr consent , dept consent ;

Instructor: Viemeister, Neal F

Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology

3 credit(s), max credits 18, 6 completions allowed; prereq

instr consent , dept consent ;

Instructor: He, Sheng

Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology

3 credit(s), max credits 18, 6 completions allowed; prereq

instr consent , dept consent ;

Instructor: 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; prereq

instr consent , dept consent ;

Instructor: Patrick, Christopher John

Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology

3 credit(s), max credits 18, 6 completions allowed; prereq

instr consent , dept consent ;

Instructor: Overmier, J. Bruce

Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology

3 credit(s), max credits 18, 6 completions allowed; prereq

instr consent , dept consent ;

Instructor: Gewirtz, Jonathan C

Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology

3 credit(s), max credits 18, 6 completions allowed; prereq

instr consent , dept consent ;

Instructor: 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; prereq

instr consent , dept consent ;

Instructor: Federico, Christopher Michael

Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology

3 credit(s), max credits 18, 6 completions allowed; prereq

instr consent , dept consent ;

Instructor: Sackett, Paul R

Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology

3 credit(s), max credits 18, 6 completions allowed; prereq

instr consent , dept consent ;

Instructor: 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; prereq

instr consent , dept consent ;

Instructor: Campbell, John P

Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology

3 credit(s), max credits 18, 6 completions allowed; prereq

instr consent , dept consent ;

Instructor: Oxenham, Andrew John

Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology

3 credit(s), max credits 18, 6 completions allowed; prereq

instr consent , dept consent ;

Instructor: Hansen, Jo-Ida C

Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology

3 credit(s), max credits 18, 6 completions allowed; prereq

instr consent , dept consent ;

Instructor: Jiang, Yuhong

Description: This is a research laboratory class with a focus on attention and memory research. Students are expected to work 8 hours in Prof. Jiang's laboratory in chunks of 2 half days or 1 whole day. During this time students will engage in active laboratory research, including experimental design, data collection and analysis, and stimulus creation. Because of the significant amount of supervision involved, this class has limited enrollment with the permission of the instructor. It is expected that no more than 5 students will be permitted to enroll in this class in Fall'08 and Spring'09 combined. The class is shaped around individual students, with each person learning at his or

PSY 5993 Research Laboratory in Psychology

3 credit(s), max credits 18, 6 completions allowed; prereq

instr consent , dept consent ;

Instructor: Gonzales, Marti Hope

Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology

3 credit(s), max credits 18, 6 completions allowed; prereq

instr consent , dept consent ;

her own pace. Those who do end up enrolling in the course have in the past learned a lot from it. Grading will be given on the basis of attendance, laboratory performance, and a 5-page final paper.

Style: 10% Discussion, 80% Laboratory, 10% Small Group Activities.

Grading: 15% reports/papers, 70% attendance, 15% laboratory evaluation.

PSY 5993 Research Laboratory in Psychology

3 credit(s), max credits 18, 6 completions allowed; prereq instr consent , dept consent ;

Instructor: Mann,Traci Lynn

Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology

3 credit(s), max credits 18, 6 completions allowed; prereq instr consent , dept consent ;

Instructor: Engel,Stephen A

Description: Engel lab research/lab meeting

PSY 5993 Research Laboratory in Psychology

3 credit(s), max credits 18, 6 completions allowed; prereq instr consent , dept consent ;

Instructor: DeYoung,Colin G

Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology

3 credit(s), max credits 18, 6 completions allowed; prereq instr consent , dept consent ;

Instructor: Schmidt,Aaron Michael

Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology

3 credit(s), max credits 18, 6 completions allowed; prereq instr consent , dept consent ;

Instructor: Syed,Moin

Description: This directed research is designed for undergraduate and graduate students interested in the topics of narrative, identity, culture, and education, with particular emphasis on a developmental perspective. Students interested in any one of these four topics are encouraged to enroll, but the primary emphasis will be on narrative approaches to development (e.g., how cultural, ethnic, and racial identities are 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 8010 Advanced Topics in Learning

S-N only, 3 credit(s), max credits 12, 4 completions allowed; prereq 5012 or instr consent ;

Instructor: Overmier,J. Bruce

Description: 8010: Seminar : Topic: Choice Behavior (Sec 001); 3 cr; prereq honors or grad student or instr consent ; Instructor: Overmier, J. Bruce Description: Psychology traditionally recognizes at least two forms of learning: classical conditioning (of emotions) and instrumental learning (of actions to cope with the world). Here we shall explore how these interact to guide behavior. We shall discuss the external and internal factors that influence choices among alternative behaviors. Substantial attention will be given to different theories of mediation of choices and the data supporting each. Work load: 45 pages of reading per week Grade: Based on seminar presentations and contributions to discussions.

PSY 8111 Psychopathology I

A-F only, 4 credit(s); prereq Clinical psych grad student, instr consent ;

Instructor: Peuschold,Dawn M

Description: Student may contact the instructor or department

for information.

PSY 8201 Social Cognition

A-F only, 3 credit(s); prereq Psych PhD candidate;

Instructor: Borgida,Eugene

Description: Student may contact the instructor or department for information.

PSY 8205 Proseminar: Research in Social Psychology

S-N only, 3 credit(s), max credits 15, 5 completions allowed; prereq Psych PhD student;

Instructor: Borgida,Eugene

Description: Student may contact the instructor or department for information.

PSY 8209 Research Methods in Social Psychology

A-F only, 3 credit(s); prereq Psych PhD student;

Instructor: Rothman,Alexander John

Description: Student may contact the instructor or department for information.

PSY 8210 Law, Race, and Social Psychology

A-F only, 3 credit(s); prereq 2nd or 3rd yr law student or PhD student in social science doctoral program;

Instructor: Borgida,Eugene

Description: Student may contact the instructor or department for information.

PSY 8211 Proseminar in Political Psychology I

S-N only, 1 credit(s); prereq Political Psychology grad minor; Credit will not be granted if credit has been received for:

POL 8307;

Instructor: Sullivan,John L

Description: Student may contact the instructor or department for information.

PSY 8501 Counseling Psychology: History and Theories

3 credit(s); prereq Counseling psych grad student or instr consent;

Instructor: Frazier,Patricia Ann

Description: Student may contact the instructor or department for information.

PSY 8503 Interviewing and Intervention

3 credit(s); prereq 8501, 8502 or instr consent ;

Instructor: Conlon,Amy Lynne

Description: Student may contact the instructor or department for information.

PSY 8510 Counseling Psychology Beginning Practicum:

General

S-N only, 1-6 credit(s), max credits 6, 1 completion allowed; prereq Counseling psych grad student, 8501, 8502, 8503 or equiv, instr consent;

Instructor: Hansen,Jo-Ida C

Description: Student may contact the instructor or department for information.

PSY 8514 University Counseling Practicum I

S-N only, 4-6 credit(s), max credits 6, 1 completion allowed; prereq Counseling psych grad student, 8501, 8502, 8503 or equiv, instr consent ; Credit will not be granted if credit has been received for: EPSY 8513;

Instructor: Beckham-Chasnoff,Sarra

Description: Student may contact the instructor or department for information.

PSY 8542 Ethics in Psychology

S-N only, 3 credit(s); prereq Counseling or clinical psych grad student or instr consent;

Instructor: Brunquell,Donald Joseph

Description: Philosophical systems of ethics and their implications for applied psychology (clinical, counseling, industrial & organizational). Practical ethical dilemmas that emerge in applied psychology, and solutions to them. This

course is in a discussion format, with assigned readings in behavior science and medical ethics for each class session. There is a midterm examination and an assigned paper to write about an ethical dilemma (student's choice of topic, approved by the instructors).

Grading: 45% mid exam, 45% reports/papers, 5% in-class presentation, 5% class participation.

PSY 8560 Counseling Psychology Advanced Practicum I:

General

S-N only, 1-6 credit(s), max credits 6, 1 completion allowed; prereq [[[8501, 8502, 8503] or equiv], [[8510, 8511] or [8514, 8515] or equiv]], counseling psych grad student] or instr consent ;

Instructor: Frazier,Patricia Ann

Description: Student may contact the instructor or department for information.

PSY 8565 Counseling Psychology Advanced Practicum I: Vocational Assessment Clinic

S-N only, 1-6 credit(s), max credits 6, 1 completion allowed; prereq [[[8501, 8502, 8503] or equiv], [[8514, 8515] or equiv], counseling psych grad student] or instr consent;

Instructor: Conlon,Amy Lynne

Description: Student may contact the instructor or department for information.

PSY 8570 Counseling Psychology Internship I

S-N only, 1-12 credit(s), max credits 36, 36 completions allowed; prereq Counseling psych PhD candidate, instr consent;

Instructor: Hansen,Jo-Ida C

Description: Student may contact the instructor or department for information.

PSY 8611 Assessment I

A-F only, 5 credit(s); prereq Clinical psych grad student;

Instructor: Grove,William Merrill

Description: Dr. Grove's part of this course covers clinical judgment and data combination. Heuristic and mathematically correct decision aids are featured. Topics include errors in clinical judgment and how to avoid them, base rates and Bayes theorem, and signal detection theory.

Grading: 90% final exam, 10% class participation.

PSY 8611 Assessment I

A-F only, 5 credit(s); prereq Clinical psych grad student;

Instructor: Fuhrman,Michael Jed

Description: Dr. Grove's part of this course covers clinical judgment and data combination. Heuristic and mathematically correct decision aids are featured. Topics include errors in clinical judgment and how to avoid them, base rates and Bayes theorem, and signal detection theory.

Grading: 90% final exam, 10% class participation.

PSY 8620 Clinical Psychology Practicum

S-N only, 1-6 credit(s), max credits 36, 8 completions allowed; prereq instr consent ;

Instructor: MacDonald III,Angus

Description: Student may contact the instructor or department for information.

PSY 8621 Clinical Intervention I

A-F only, 1-3 credit(s), max credits 3, 1 completion allowed; prereq Clinical psych grad student;

Instructor: Ayers,James L

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 8814 Analysis of Psychological Data

4 credit(s); prereq Undergrad course in statistics, grad student in [psychology or child psychology], instr consent ;

Instructor: Guyer,Rick D

Description: Student may contact the instructor or department for information.

PSY 8881 Seminar: Quantitative and Psychometric Methods

3 credit(s), max credits 15, 5 completions allowed;

Instructor: Weiss,David J

Description: Student may contact the instructor or department for information.

PSY 8935 Readings in Behavioral Genetics and Individual Differences Psychology

S-N only, 1 credit(s), max credits 10, 10 completions allowed; prereq 5135, 5137 or instr consent;

Instructor: Mc Gue,Matt

Description: Student may contact the instructor or department for information.

PSY 8960 Graduate Seminar in Psychology

1-4 credit(s), max credits 36, 9 completions allowed; prereq Psychology grad student or instr consent;

Instructor: Kersten,Daniel John

Description: Psy 8960(001) Proseminar in Perception. 3 Credits. Survey of advanced topics in audition and vision. This course interleaves background lectures with discussions of current research in auditory and visual processing. Topics include the neurophysiology and neuroanatomy underlying peripheral sensory transformations, computational frameworks for sensory coding and perceptual functions, the representation of perceptual dimensions and features, object representation and scene analysis, attention, integration of auditory and visual processing, and applications to sensory impairment. Through guest lectures, students will also be exposed to the range of perception research currently underway at the University of Minnesota.

Public Affairs

225 HHCtr

PA 1961W Personal Leadership in the University

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: EDPA 1301W; Meets CLE req of Writing Intensive;

Instructor: Duenes,Michael

Description: Introduction to leadership theory, personal development, interpersonal relations, leadership at University of Minnesota. Personal assessment, written/verbal presentation, resume writing, electronic communication, goal setting, coping with group dynamics.

PA 1961W Personal Leadership in the University

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: EDPA 1301W; Meets CLE req of Writing Intensive;

Instructor: Christopherson,Christen Ruth

Description: This introductory level course presents leadership using a personal leadership perspective and framework. Students taking this course will have the opportunity to examine their own views on leadership, explore the differences between personal and positional leadership, study characteristics of effective leadership and learn about the importance of personal development.

Style: 100% Web Based. Web-based work includes discussion forum and 2 student presentations.

Grading: 50% reports/papers, 15% reflection paper, 10% in-class presentation, 25% class participation.

PA 1961W Personal Leadership in the University

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: EDPA 1301W; Meets CLE req of Writing

Intensive;**Instructor:** Vang-Lo,Ah**Description:** Student may contact the instructor or department for information.**Budgeting****A-F only, 3 credit(s);****Instructor:** Gunyou,John Mark**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: EDPA 1301W; Meets CLE req of Writing Intensive;****Instructor:** Fredrickson,Brian Steven**Description:** This introductory level course presents leadership using a personal leadership perspective and framework.

Students taking this course will have the opportunity to examine their own views on leadership, explore the differences between personal and positional leadership, study characteristics of effective leadership and learn about the importance of personal development.

Grading: 30% special projects, 4% written homework, 8% reflection paper, 30% in-class presentation, 25% class participation, 3% other evaluation.**PA 3961 Leadership, You, and Your Community****A-F only, 3 credit(s); prereq [1961W or EdPA 1301W], [jr or sr]; Credit will not be granted if credit has been received for: EDPA 3302;****Instructor:** Christopherson,Christen Ruth**Description:** This course will examine leadership and leadership capacities within the context of social change and public work. Students taking this course will have the opportunity to examine their own views of leadership and social change, learn about leadership theory and core concepts of Public Achievement, and apply knowledge to practice utilizing the Public Achievement model. Particular attention is given to group leadership and the effectiveness of groups and organizations accomplishing change. There are a few aspects to the content of this course which make it unique when compared to traditional collegiate and leadership instruction: As a method of examining leadership capacities within a social change movement, this class will utilize the history, current status, and stories about the issue of poverty as a context. As the theme for the course, many portions of the class content and discussion will explore the issue of poverty. This method is meant as an example of public leadership happening within the intricacies of a social movement and issue. Another major content component of this course is the Public Achievement model. A little less than half of the assigned class days will be dedicated to working within smaller groups (encompassing about 1/3 of the class in each) on a Public Achievement project. For these projects, each of the instructors, in addition to a teaching assistant, will be assigned as a coach for one Public Achievement group. More information about Public Achievement is available in the subsequent pages of this syllabus.**Style:** 10% Lecture, 5% Film/Video, 20% Discussion, 50% Small Group Activities, 10% Student Presentation, 5% Guest Speakers. The major portion of this class is the Public Achievement process.**Grading:** 20% final exam, 20% reports/papers, 5% quizzes, 5% attendance, 10% journal, 35% in-class presentation, 5% class participation.**Exam Format:** Final exam is a take-home written essay.**PA 1961W Personal Leadership in the University****A-F only, 3 credit(s); Credit will not be granted if credit has been received for: EDPA 1301W; Meets CLE req of Writing Intensive;****Instructor:** Shultz,Joseph Brian**Description:** This introductory level course presents leadership using a personal leadership perspective and framework.

Students taking this course will have the opportunity to examine their own views on leadership, explore the differences between personal and positional leadership, study characteristics of effective leadership and learn about the importance of personal development.

PA 1961W Personal Leadership in the University**A-F only, 3 credit(s); Credit will not be granted if credit has been received for: EDPA 1301W; Meets CLE req of Writing Intensive;****Instructor:** Watkins Soderlund,Mandi Mae**Description:** Introduction to leadership theory, personal development, interpersonal relations, leadership at University of Minnesota. Personal assessment, written/verbal presentation, resume writing, electronic communication, goal setting, coping with group dynamics.**PA 1961W Personal Leadership in the University****A-F only, 3 credit(s); Credit will not be granted if credit has been received for: EDPA 1301W; Meets CLE req of Writing Intensive;****Instructor:** Hellstrom,David P**Description:** This 1000 level course introduces leadership using a personal leadership perspectives and frameworks. Students taking this course will have the opportunity to examine their own views on leadership, explore the differences between personal and positional leadership, study characteristics of leaders within the University of Minnesota and learn about the importance of personal development.**PA 3961 Leadership, You, and Your Community****A-F only, 3 credit(s); prereq [1961W or EdPA 1301W], [jr or sr]; Credit will not be granted if credit has been received for: EDPA 3302;****Instructor:** Asmundson,Aaron R**Description:** Leadership and leadership capacities from multicultural/multidimensional perspectives. Students examine their own views on leadership. Leadership theory/practice, group dynamics/behavior, applying knowledge.**PA 1961W Personal Leadership in the University****A-F only, 3 credit(s); Credit will not be granted if credit has been received for: EDPA 1301W; Meets CLE req of Writing Intensive;****Instructor:** Ellsworth,Chad**Description:** This introductory level course presents leadership using a personal leadership perspective and framework.

Students taking this course will have the opportunity to examine their own views on leadership, explore the differences between personal and positional leadership, study characteristics of effective leadership and learn about the importance of personal development.

Style: 20% Lecture, 5% Film/Video, 50% Discussion, 20% Small Group Activities, 5% Student Presentation.**Grading:** 40% reports/papers, 20% reflection paper, 20% in-class presentation, 20% class participation.**PA 3971 Leadership Minor Field Experience****A-F only, 3 credit(s); prereq [3961W or EDPA 3302W] with grade of at least C; Credit will not be granted if credit has been received for: EDPA 3402;****Instructor:** Werner,Linnette**Description:** Student may contact the instructor or department for information.**PA 3971 Leadership Minor Field Experience****A-F only, 3 credit(s); prereq [3961W or EDPA 3302W] with grade of at least C; Credit will not be granted if credit has been received for: EDPA 3402;****Instructor:** Nobbe,June Elly**Description:** Student may contact the instructor or department for information.**PA 3991 Independent Study****1-3 credit(s), max credits 6; prereq instr consent ;****Instructor:** Boyte,Harry C**Description:** Student may contact the instructor or department**PA 3003 Nonprofit and Public Financial Analysis and**

for information.

PA 4101 Nonprofit Management and Governance

3 credit(s);

Instructor: Rojas, Allison Langell

Description: Student may contact the instructor or department for information.

PA 4101 Nonprofit Management and Governance

3 credit(s);

Instructor: Classen, Julia E

Description: As civil society organizations, nonprofit agencies have a long and important tradition within American democracy. Yet as the current fiscal environment makes clear, a compelling mission alone is insufficient to assure these organizations survive and thrive; professional and innovative nonprofit management, leadership and governance is essential. In this course, we examine real world examples and review theories and practices that apply to them. There are many unique issues nonprofit managers and leaders face, including tensions between the nonprofit mission and the ever-changing funding markets, participation in policymaking, professionalism of the sector, accountability demands and the challenges of part-time volunteers as board members providing governance, oversight and leadership to increasingly complex organizations. This course is offered in a mixed on-line and face-to-face format (4 meetings throughout the term). It begins by exploring the nonprofit sector and examining what make nonprofits unique. From that foundation, we will examine governance and accountability of nonprofit boards, the funding challenges and program evaluation, strategic management theory and practice, the role of nonprofits in policymaking and the unique aspects on nonprofit finance. Making generalizations about nonprofits can be difficult because of the size and diversity of the sector and therefore the types of organizations in it. We will endeavor to be sensitive to that challenge by drawing upon examples from the many subsectors including, health, religious institutions, performing arts, human services and advocacy organizations. The teaching method will be an interactive model drawing upon readings, asynchronous discussion boards, presentations from practitioners from the local nonprofit community, online presentations of material with podcasts and video casts, teaching cases, and collaborative projects.

PA 4101 Nonprofit Management and Governance

3 credit(s);

Instructor: Jacobs, Stephanie Jean

Description: Student may contact the instructor or department for information.

PA 4200 Urban and Regional Planning

3 credit(s);

Instructor: Cronin, Michael W

Description: Student may contact the instructor or department for information.

PA 4961W Leadership for Global Citizenship

A-F only, 3 credit(s); prereq 3971 or EdPA 3402; Credit will not be granted if credit has been received for: EDPA 4303W; Meets CLE req of Writing Intensive;

Instructor: Atwood, Susan J

Description: This 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.

Style: 10% Lecture, 10% Film/Video, 40% Discussion, 25% Small Group Activities, 10% Student Presentation, 5% Guest Speakers. 11.15-12.30pm Tues and Thurs

Grading: 25% reports/papers, 25% special projects, 25% written homework, 10% attendance, 5% in-class presentation, 10% class participation.

PA 5002 Introduction to Policy Analysis

A-F only, 1.5 credit(s); prereq Major in public policy or instr consent ;

Instructor: Hoenack, Stephen A

Description: Process of public policy analysis from problem structuring to communication of findings. Commonly used analytical methods. Alternative models of analytical problem resolution.

PA 5002 Introduction to Policy Analysis

A-F only, 1.5 credit(s); prereq Major in public policy or instr consent ;

Instructor: Myers Jr, Samuel L

Description: Process of public policy analysis from problem structuring to communication of findings. Commonly used analytical methods. Alternative models of analytical problem resolution.

PA 5003 Introduction to Financial Analysis and Management

A-F only, 1.5 credit(s); prereq Public policy major or public affairs major or grad liberal studies major or grad nonprofit mgmt cert or instr consent ;

Instructor: Kiedrowski, P. Jay

Description: This is an introductory course to budgeting and financial analysis in the context of public and nonprofit organizations. The primary learning objective of this course is how to obtain accurate financial information to make sound management decisions through the analysis of financial documents such as budgets and financial statements. The processes of producing such documents will be introduced but are not the focus of this course. Conceptual frameworks and analytical techniques will be emphasized and applied to analyze real-world financial problems. Lectures, discussions, and cases/examples from nonprofit and public sector organizations will be utilized.

Style: 50% Lecture, 20% Discussion, 10% Small Group Activities, 10% Student Presentation, 10% Demonstration.

Grading: 30% mid exam, 30% final exam, 25% reports/papers, 15% class participation.

PA 5004 Introduction to Planning

A-F only, 3 credit(s); prereq Major in urban/regional planning or instr consent ;

Instructor: Allen, Ryan Patrick

Description: History, institutional development of urban planning as a profession. Intellectual foundations, planning theory. Roles of urban planners in U.S./international settings. Scope, legitimacy, limitations of planning and of planning process. Issues in planning ethics and in planning in settings of diverse populations/stakeholders.

PA 5011 Leadership and Management

A-F only, 3 credit(s); prereq Major in public policy or instr consent ;

Instructor: Andberg, Wendy Louise

Description: Student may contact the instructor or department for information.

PA 5011 Leadership and Management

A-F only, 3 credit(s); prereq Major in public policy or instr consent ;

Instructor: Bloomberg, Laura L

Description:

PA 5011 Leadership and Management

A-F only, 3 credit(s); prereq Major in public policy or instr consent ;

Instructor: Stone, Melissa M

Description: Challenges facing higher-level managers in public/nonprofit organizations in a mixed economy and democratic republic. Distinctive features of public/nonprofit management, skills necessary for effective management,

manager's role as creator of public value. Lectures, case discussions.

Style: 25% Lecture, 50% Discussion, 25% Small Group Activities.

Grading: 60% reports/papers, 15% in-class presentation, 15% class participation, 10% other evaluation.

PA 5011 Leadership and Management

A-F only, 3 credit(s); prereq Major in public policy or instr consent ;

Instructor: Moua,Mai

Description: Challenges facing higher-level managers in public/nonprofit organizations in a mixed economy and democratic republic. Distinctive features of public/nonprofit management, skills necessary for effective management, manager's role as creator of public value. Lectures, case discussions.

PA 5013 Law and Urban Land Use

A-F only, 1.5 credit(s); prereq Major in urban/regional planning or instr consent ;

Instructor: Selligren,David Clark

Description: Role of law in regulating/shaping urban development, land use, environmental quality, and local/regional governmental services. Interface between public/private sector.

PA 5021 Economics For Policy Analysis and Planning I

A-F only, 3 credit(s); prereq [[Econ 1101 or equiv], Major in public policy or [sci, tech, and environ policy]] or instr consent ;

Instructor: Le,Thanh Trung

Description: Student may contact the instructor or department for information.

PA 5021 Economics For Policy Analysis and Planning I

A-F only, 3 credit(s); prereq [[Econ 1101 or equiv], Major in public policy or [sci, tech, and environ policy]] or instr consent ;

Instructor: Le,Thanh Trung

Description: Student may contact the instructor or department for information.

PA 5021 Economics For Policy Analysis and Planning I

A-F only, 3 credit(s); prereq [[Econ 1101 or equiv], Major in public policy or [sci, tech, and environ policy]] or instr consent ;

Instructor: Hanratty,Maria J

Description: Introduction to tools useful for public policy: intermediate microeconomics, macroeconomics, concepts of international trade.

PA 5021 Economics For Policy Analysis and Planning I

A-F only, 3 credit(s); prereq [[Econ 1101 or equiv], Major in public policy or [sci, tech, and environ policy]] or instr consent ;

Instructor: Husbands Fealing,Kaye

Description: Introduction to tools useful for public policy: intermediate microeconomics, macroeconomics, concepts of international trade.

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; prereq [[5021 or equiv], public policy major] or instr consent ;

Instructor: Temple,Judy

Description: This Fall 2009 class is focused on Cost-Benefit Analysis. Prerequisite is PA 5021 (or concurrent enrollment) or intermediate microeconomics.

PA 5031 Empirical Analysis I

A-F only, 4 credit(s); prereq Major in publ policy or [sci, tech, and environ policy] or urban/regional planning or instr consent ;

Instructor: Le,Thanh Trung

Description: Basic statistical tools for empirical analysis of

public policy alternatives. Frequency distributions, descriptive statistics, elementary probability and probability distributions, statistical inference. Estimation and hypothesis testing. Cross-tabulation and chi-square distribution. Analysis of variance, correlation. Simple/multiple regression analysis.

PA 5031 Empirical Analysis I

A-F only, 4 credit(s); prereq Major in publ policy or [sci, tech, and environ policy] or urban/regional planning or instr consent ;

Instructor: Cao,Jason

Description: Basic statistical tools for empirical analysis of public policy alternatives. Frequency distributions, descriptive statistics, elementary probability and probability distributions, statistical inference. Estimation and hypothesis testing. Cross-tabulation and chi-square distribution. Analysis of variance, correlation. Simple/multiple regression analysis.

PA 5038 Analytics for Leaders I

A-F only, 2 credit(s); prereq Major in public affairs or instr consent ;

Instructor: Henry,Matthew Joseph

Description:

PA 5080 Capstone Preparation Workshop

S-N only, 1 credit(s); prereq Concurrent registration is required (or allowed) in 8081;

Instructor: DeCramer,Gary M

Description: Student may contact the instructor or department for information.

PA 5101 Management and Governance of Nonprofit Organizations

3 credit(s); prereq 5011 or 5941 or grad liberal studies major or grad nonprofit mgmt cert or instr consent ;

Instructor: Wirth-Davis,Michael Eric

Description: Theories, concepts, and real world examples of managerial challenges. Governance systems, strategic management practices, effect of funding environments, management of multiple constituencies. Types of nonprofits using economic/behavioral approaches.

PA 5104 Strategic Human Resource Management

A-F only, 3 credit(s); prereq 5011 or 5941 or grad nonprofit mgmt cert or instr consent ;

Instructor: Kiedrowski,P. Jay

Description: Theory/practice of developing, utilizing, and aligning human resources to improve culture/outcomes of nonprofit/public organizations. HR strategy, individual diversity, leadership, selection, training, compensation, classification, performance appraisal, future HR practices.

Style: 40% Lecture, 30% Discussion, 20% Student Presentation, 10% Guest Speakers.

Grading: 45% reports/papers, 30% in-class presentation, 25% class participation.

PA 5123 Introduction to Philanthropy: Theory and Practice

3 credit(s); prereq 5011 or 5941 or grad nonprofit mgmt cert or instr consent ;

Instructor: Barreiro,Terri Diane

Description: Philanthropy has become a \$250 billion industry in the U.S. The actions of foundations such as the Bill and Melinda Gates Foundation are featured in the media regularly. This course will introduce students to the theory and practice of philanthropy with a particular focus on individual and foundation giving in the United States. Drawing on the key scholarship of the field, students will learn alternative models of philanthropy, its history and development, economic structure, and power dynamics; core components of grantmaking and grantseeking; as well as key current debates and career options. This is not a fundraising or grantwriting course. The class is instead an intensive study of philanthropy so that students can effectively navigate the field in their public affairs careers. This course will enable the student to analyze and understand the changing nature of private philanthropy and its relationship to public policy as well as its importance to business and society at large.

Increased public and public sector demand for effectiveness, accountability and legitimacy will be reviewed along with the emerging issues and challenges facing this field. Students will be able to apply knowledge from this class to a variety of fields, including nonprofit management, fundraising, and grantmaking as well as policy analysis. Class instruction will include lectures, guest speakers, case study analyses, class discussions, small group exercises and individual assignments. The course will meet once a week in seminar format. Full class participation by all students will be expected. Reading assignments will be grouped topically in the order that they will be discussed. Students are expected to have read the assignment for each class on a weekly basis before classes meet.

Style: 25% Lecture, 35% Discussion, 15% Small Group Activities, 10% Student Presentation, 15% Guest Speakers.

Grading: 15% mid exam, 20% final exam, 35% reports/papers, 10% written homework, 10% attendance, 10% reflection paper.

All assignment details will be given in class at which time the basic expectations for grades will be explained.

Exam Format: Mid exam will be a traditional exam that is a mixture of multiple choice and short essay. Final exam will be an in class essay exam.

PA 5190 Topics in Public and Nonprofit Leadership and Management: Prof Affiliation Practicum

1-3 credit(s), max credits 9, 3 completions allowed; prereq 5011 or 5941 or grad nonprofit mgmt cert or instr consent ; Instructor: DeCramer, Gary M

Description: The course draws upon the insights, awakenings, epiphanies that occur when a student is suddenly immersed in a culture, organization or leadership form which a student finds foreign. These insights, epiphanies are not so much about the newly visited culture, organization or leadership form. Rather, the insights arise from experiencing a professional affiliation, internship or forum that may or may not have a counterpart in the student's own culture. The awakening comes in the moments of discovered contrast, puzzlement, or surprise; the new learning arises from reflection on the critical incidents that undo the assumptions contained in the familiar.

PA 5190 Topics in Public and Nonprofit Leadership and Management: Negotiation

3 credit(s), max credits 9, 3 completions allowed; prereq 5011 or 5941 or grad nonprofit mgmt cert or instr consent ; Instructor: Anderson Kelliher, Margaret E

Description:

PA 5203W Geographical Perspectives on Planning

4 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: GEOG 5605W; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of International Perspect Theme; meets CLE req of Writing Intensive;

Instructor: Miller, Roger P

Description: Planning is State intervention in the development process, and the ideologies used to justify, influence, and legitimate that intervention. Planning functions at practical, political, and ideological levels. Studying planning involves understanding what was planned, by whom, and for what purposes. This course will introduce students to the historical, political, and economic contexts within which international urban and regional planning evolved. The course will examine the nature of the social problems that called forth various planning solutions, and the new urban and regional geographies produced by those solutions. Readings and discussions will emphasize the ways in which planning strategies and the development of planning institutions differed in a variety of national settings. We will explore the reasons for the marked dissimilarity between European modes of urban and regional planning and their American counterparts, both historically and in contemporary practice. The course will also focus on the major actors in the development of planning, and the groups with whom they were associated, and it will address issues of how planning encourages or discourages citizen participation in controlling the built urban environment and the kinds of activities that occur within it.

PA 5211 Land Use Planning

3 credit(s); prereq Grad student or instr consent ;

Instructor: Fan, Yingling

Description:

PA 5231 Transit Planning and Management

3 credit(s); prereq Grad student or instr consent ;

Instructor: Mahowald, Steven Lawren

Description: Principle focus is on planning and management of transit facilities and services. Through a multi-modal perspective, bus and rail transit are integrated with automobile, pedestrian, bicycle, land use and environmental planning. Creative solutions are explored through case studies, field projects, and interactive course exercises. Undergraduate students require permission.

Style: 50% Lecture, 50% Discussion.

Grading: 25% mid exam, 25% final exam, 40% reports/papers, 5% in-class presentation, 5% class participation.

Exam Format: Essay

PA 5232 Transportation Policy, Planning, and Deployment

4 credit(s); prereq Sr or grad student or instr consent ;

Instructor: Levinson, David M

Description: This course aims to provide an environment for students to learn essential facts and develop models and frameworks to understand the development of transportation policy, the making of transportation plans, and the deployment of transportation technologies. The course uses a mixture of traditional lectures (generally on Mondays), and interactive learning through case studies and role playing (generally on Wednesdays). Both the lectures and the cases allow the students to develop an inductive understanding of transportation. The course will be successful if at the end, the student has developed a worldview on transportation (not necessarily the same as the instructor's), and has an appreciation for merits and demerits of various points of view on transportation issues. The course seeks an integrative approach for transportation, and though the stories in lecture will be told mode by mode, there are a number of opportunities to see the relationships between modes, in their structure in function, and in the learning as one mode adopts successful (and unsuccessful) attributes of others. See syllabus in Course URL.

Style: 50% Lecture, 50% Discussion.

Grading: 20% mid exam, 20% final exam, 40% reports/papers, 20% class participation.

PA 5253 Designing Planning and Participation Processes

A-F only, 3 credit(s); prereq Major in urban/regional planning or instr consent ;

Instructor: Schrock, Gregory R

Description: Student may contact the instructor or department for information.

PA 5271 Geographic Information Systems: Applications in Planning and Policy Analysis

3 credit(s); prereq Major in urban/regional planning or instr consent ;

Instructor: Bolan, Richard Stuart

Description: Introduction to GIS. Applications in public planning and policy analysis. Operational skills in GIS software. Mapping analysis of U.S. Census material. Local/state government management/planning. Spatial statistical analysis for policy/planning.

PA 5271 Geographic Information Systems: Applications in Planning and Policy Analysis

3 credit(s); prereq Major in urban/regional planning or instr consent ;

Instructor: Fan, Yingling

Description:

PA 5290 Topics in Planning: Intro to Site Planning

1.5 credit(s), max credits 9, 3 completions allowed; prereq Grad student or instr consent ;

Instructor: Ingraham, Gregory Howard

Description: Overview: Site planning is the process of analyzing and preparing graphic plans for development or redevelopment

of property. The intent of this course is to provide a practical hands-on understanding of site planning issues, process, opportunities and techniques through preparation of a site plan for a real world site. The course includes a site walk on campus and visits to the off-campus project site and to HKGI offices in Minneapolis. The course project is to prepare a site plan for a Twin City area development/redevelopment site. The final site plan will build from layers through a series of weekly assignments illustrating typical steps in the site planning process. During the final class students will present their site plan to the class. Reading material consists of a reading packet, in-class handouts, web research and Web CT postings. Course reading packet will be available at the bookstore and on reserve at Wilson Library.

Style: 40% Lecture, 15% Discussion, 5% Small Group Activities, 5% Student Presentation, 20% Field Trips, 15% Guest Speakers. Requires the ability to get to the project site (Eden Prairie) and one off campus class in DT Mpls.

Grading: 85% special projects, 15% class participation.

PA 5301 Population Methods and Issues for the United States and Third World

3 credit(s); prereq Grad student or instr consent ;

Instructor: King PhD, Miriam L

Description: This course is designed to teach basic demographic methods. Students will be exposed to the methodology behind the population numbers cited in popular and scientific media and will learn how to use basic demographic techniques in research or policy analysis. The course is also designed to familiarize students with population trends in the United States and the world. Topics covered include: fertility, mortality, and the demographic transition; population growth and the environment; infant mortality; fertility inside and outside marriage; trends in family structure and living arrangements; HIV/AIDS; international migration; and population aging. The course will include both lecture and discussion elements. Grades will be based on a midterm exam, short exercises, class participation, and short papers designed to encourage critical thinking about population and public policy.

PA 5311 Program Evaluation

3 credit(s); prereq Grad student or instr consent ;

Instructor: Murphy, Mary Ellen S.

Description: Principal methods, primary applications of evaluation research as applied to policies/programs in health/human services, education, or the environment. Conducting evaluations. Becoming a critical consumer of studies.

PA 5401 Poverty, Inequality, and Public Policy

3 credit(s); prereq Grad or instr consent ;

Instructor: Hanratty, Maria J

Description: Nature/extent of poverty/inequality in the United States, causes/consequences, impact of government programs/policies. Extent/causes of poverty/inequality in other developed/developing countries.

PA 5441 Education Policy and the State Legislature

3 credit(s); prereq Grad or instr consent ;

Instructor: Nathan, Joe

Description: Want to learn how you can influence Minnesota's legislature, and help improve the world? Want to understand how the legislature makes decisions about education issues, elementary, secondary and higher ed? Want to meet with legislators, reporters, lobbyists? Want to discuss how the Internet can be used to help influence legislators? If so, this is a good class for you. Classroom debates, discussions and roleplays play a key part. There also is a field trip to state legislature. Students will help write a guide for others on what people do to get things done at the legislature. Target audience: mature undergraduates, community members, graduate students

Style: 20% Lecture, 45% Discussion, 20% conversations; 10% role plays, 5% field trip

Grading: 30% final exam, 50% reports/papers, 15% in-class presentation, 5% class participation.

Exam Format: Take-home final exam

PA 5451 Immigrant Health Issues

A-F only, 3-4 credit(s), max credits 4, 1 completion allowed; prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: PUBH 6281;

Instructor: Fennelly, Katherine

Description:

PA 5490 Topics in Social Policy: Early Childhood & Public Policy

3 credit(s), max credits 9, 3 completions allowed; prereq Grad student or instr consent ;

Instructor: Slawik, Nora B

Description: If you want to learn directly from legislators, early education professionals, economists, lobbyists and other social scientists about state, federal and international policies affecting young children and their families this class is essential. We will explore readings and expert speaker presentations on family, community and institutional roles in promoting children's social, cognitive and emotional development and their acquisition of language and pre-literacy skills. This course illuminates the gaps between the science of early childhood development and how public policies support young children and their caregivers. Classroom discussions will focus on innovative public policies and financing affecting young children and their physical and mental health care, poverty influences, quality child care, economics, special needs and workforce issues. 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. This class is the cornerstone of the Early Childhood Policy Certificate program, a postbaccalaureate sequence intended to develop individuals' capacity to apply research-informed knowledge of early development to federal and state policy affecting children up to age 8.

Style: 20% Lecture, 20% Discussion, 10% Student Presentation, 40% 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, 40% written homework, 20% class participation. Class attendance also weighs into the final grade if the student misses more than two of the weekly classes.

PA 5501 Economic Development

3 credit(s); prereq Grad student or instr consent ;

Instructor: Friedemann-Sanchez, Greta

Description: Economic development theories/strategies throughout world. Competing theoretical paradigms. Policy debates. Poverty/inequality, rural development, trade policy, human capital, the environment.

PA 5511 Community Economic Development

3 credit(s); prereq Grad or instr consent ;

Instructor: Christenson, Michael Paul

Description: Contexts/motivations behind community economic development activities. Alternative strategies for organizing/initiating economic development projects. Tools/techniques for economic development analysis/planning (market analysis, feasibility studies, development plans). Implementation at local level.

PA 5522 International Development Policy, Families, and Health

3 credit(s); prereq Grad student or instr consent ;

Instructor: Friedemann-Sanchez, Greta

Description:

PA 5690 Topics in Women and Public Policy: Fem Pers on Sexual Assault & Domestic Violence

3 credit(s), max credits 9, 3 completions allowed; prereq Grad student or instr consent ;

Instructor: Schuster, Mary Lay

Description: This course focuses on the history of and contemporary thinking about activism, social change, public policies, and legal remedies directed toward sexual assault and domestic violence in the US, particularly from the point of view of

feminist perspectives. The course deals with how social construction of women's and men's bodies, including their reproductive responsibilities, and changing notions of privacy contribute to attitudes toward stranger sexual assault and intimate partner violence. Readings in the course offer insight into early links between slavery and rape, between the temperance movement and domestic violence, and between views of child abuse and sexual abuse, as well as the increasing roles of psychiatry and social work in addressing such violence. The course traces how these historical foundations and cultural attitudes help determine contemporary responses by legal officials, and the course covers such diverse topics as the impact of HIV/AIDS on rape survivors; sexual abuse of men in prison; incest; and sex offender treatment. Students will visit the domestic violence court in Hennepin County, and the course ends with a close look at a project by the president of William Mitchell Law School on sexual predator laws, such as civil commitment and community notification, in terms of their effectiveness, feminist perspectives, and impact on Constitutional rights. Course Objectives: ? To study sexual assault and domestic violence, within a historical and contemporary culture context and from the point of view of feminist perspectives. ? To compare and contrast cultural foundations and legal responses to the two crimes. ? To learn how the history of legal and public policy issues toward domestic violence and sexual assault has influenced contemporary thinking. ? To understand the construction of the private and public sphere and how these constructions influence legal and public policy remedies directed at domestic violence and sexual assault. ? To understand how social attitudes toward gender roles and how media responses to crime determine legal and public policy responses to domestic violence and sexual assault. ? To observe and understand the cultural and historical foundations of legal responses to domestic violence and sexual assault such as orders of protection, restitution, anger management courses, domestic violence treatment, and jail time versus probation. ? To understand the systemic changes that might be needed or recommended to enhance our cultural and legal reactions to sexual assault and domestic violence. Assignments and Course Grade: Participation and discussion: 10% Reading quizzes: 15% First take-home essay exam: 35% Second take-home exam: 35% Field trip report; 5% **Grading:** 35% mid exam, 35% final exam, 5% reports/papers, 15% quizzes, 10% class participation. Exams are essay take-home exams

PA 5701 Science and State**3 credit(s); prereq Grad or instr consent ;****Instructor:** Swackhamer, Deborah L**Description:** Relationship between science and contemporary society. Nature of science: its values, processes, and ways of knowing. How science has influenced U.S. political institutions and political/judicial processes. Issues in current debate over U.S. science policy.**PA 5701 Science and State****3 credit(s); prereq Grad or instr consent ;****Instructor:** Kelley, Steve**Description:** Relationship between science and contemporary society. Nature of science: its values, processes, and ways of knowing. How science has influenced U.S. political institutions and political/judicial processes. Issues in current debate over U.S. science policy.**PA 5722 Environmental and Resource Economics Policy****3 credit(s); prereq [Intermediate microeconomics, intermediate policy analysis, grad student] or instr consent ;****Instructor:** Easter, K William**Description:** The course emphasizes the economics of natural resource use over time, natural resource scarcity or adequacy, environmental economics and mechanisms for pollution control and their implications for public policy. It will also include study of the use of economic analysis and benefit cost analysis in natural resource and environmental quality decisions made both by the public and private sectors. This course is designed to service two groups: (1) seniors and graduate students in Applied Economics,

Public Affairs, Geography, Natural Resources, etc., for whom it is a terminal course, and (2) Applied Economics or Economics students who plan to take ApEc8601 and/or 8602. The course is organized around two lectures per week. However, discussion and questions are encouraged. Readings will be assigned that are on reserve.

Style: 85% Lecture, 15% Discussion.**Grading:** 35% mid exam, 35% final exam, 20% reports/papers, 10% problem solving.**Exam Format:** Short essay**PA 5890 Topics in Foreign Policy and International Affairs:****Women and Armed Conflict****3 credit(s), max credits 9, 3 completions allowed; prereq****Grad student or instr consent ;****Instructor:** Cohen, Dara Kay**Description:** Student may contact the instructor or department for information.**PA 5910 Developing Your Public Service Career****S-N only, 1 credit(s); prereq Major in [public affairs or public policy or urban/regional planning or [science, technology/environmental policy]] or instr consent ;****Instructor:** Schuman, Lynne Roberta**Description:** This course provides Humphrey students with the knowledge and analytic tools to manage their own career development. Students look at the changing nature of public work and public service career options. They analyze and document their individual interests, skills and abilities and create a career exploration plan. Finally, they meet professionals from a variety of public service careers in a series of panel discussions.**Style:** 20% Lecture, 20% Discussion, 20% Small Group Activities, 40% Guest Speakers.**Grading:** 50% reports/papers, 50% reflection paper.**PA 5920 Skills Workshop: Community Organizing for Effective Public Policy****2 credit(s), max credits 12, 12 completions allowed; prereq****Grad student or instr consent ;****Instructor:** Donovan, Dennis Michael**Description:** In an effort to better fulfill the Humphrey Institute's mission to "inspire, educate, and support innovative leaders to advance the common good in a diverse world," this practicum advances the idea of democracy as a society created through public work. As future public sector and not-for-profit professionals, much of the work that Humphrey Students will do in the future will depend on successful engagement of, and partnerships with, diverse constituents and communities. This hands-on learning experience will engage class participants to think about their place as professionals and as citizens, and teach how to effectively create change. Practicum participants will learn concepts of broad-based organizing, including power and empowerment, self-interest, public life, one-to-one relational meetings, and skill and issue development for public problem-solving. This course will examine concepts and ideas central to the role of the citizen in public life. Specific content will include: 1. Democracy and Citizenship: Moving toward a definition of democracy as everyday political work that solves problems, achieves more just and equitable outcomes, and builds communities. This looks at the limits of conceptualizing citizens as clients, and encourages relationship building across diversity to gain confidence in taking action. 2. Power: exploring personal attitudes and experiences with power and understanding power from the community organizing perspective. 3. Self-interest: understanding the importance of and acknowledging self-interest, (understood as each person's individual, unique stories and set of passions) as a critical foundation of engagement. 4. One-to-One: a fundamental tool of organizing through relational meetings. 5. Public and Private: understanding the differences between one's public and one's private life, and acting in ways to bring about public change. 6. Additional organizing skills (agenda setting, power mapping, cutting issues, research, evaluation). This course is open to graduate students, and undergraduates with the instructor's consent.

PA 5920 Skills Workshop: Fit to Print, Fit to Post: Political Reporting**1 credit(s), max credits 12, 12 completions allowed; prereq Grad student or instr consent ;****Instructor:** Williams, Sarah Townsen

Description: This course taught by veteran news editor Sarah T. Williams will introduce students to the nuts and bolts of political reporting on campaigns and elections, public policy, the lawmaking process and the uses and abuses of power. Students will come to a deeper understanding of their own areas of expertise - whether taxation or race relations - and polish their public communications skills. Acting as a "news bureau chief," Ms. Williams will work with students to identify story ideas, develop sources, and create readable, unbiased, informative and engaging news stories that will be posted on Smart Politics, the internet news service for the Center for the Study of Politics and Governance.

PA 5920 Skills Workshop: Boards Service Practicum**1 credit(s), max credits 12, 12 completions allowed; prereq Grad student or instr consent ;****Instructor:** Stone, Melissa M

Description: This practicum is for HHH students who sit on a nonprofit board or board committee. It uses current research and concepts along with students' current board experiences to illuminate challenges and explore solutions in order to build board leadership competencies. The course will cover historical trends in governance, important changes in the policy, legal and funding environments that affect nonprofit governance, basic roles and responsibilities of boards and their members, models of governance, and board dynamics, especially those between boards and top management.

Style: 25% Lecture, 65% Discussion, 10% Guest Speakers.**Grading:** 50% reports/papers, 50% class participation. S/N only**PA 5920 Skills Workshop: Qualitative Methods****4 credit(s), max credits 12, 12 completions allowed; prereq Grad student or instr consent ;****Instructor:** Fennelly, Katherine

Description: This 4-credit class is designed to introduce students to several qualitative analysis techniques and to provide hands-on experience in designing, gathering and analyzing data. The course is a "sampler" because one semester is insufficient time to design and conduct a full-blown study, or to fully master the various qualitative methods. It includes two class sessions each week, and one separate lab session each week to learn to use NVivo, a qualitative data analysis software package.

PA 5941 Leadership for the Common Good**4 credit(s); prereq Major in public affairs or instr consent ;****Instructor:** DeCramer, Gary M

Description: DRAFT Syllabus ? Spring 09 PA 5941 Leadership for the Common Good Wed. 5:45 pm ? 9:05 pm Instructor Gary DeCramer Room 241 Humphrey Institute gdecramer@umn.edu office: 612-625-3458 home: 651-686-5535 hours: 4:00 to 5:15 Wednesdays or by appointment Course Goals ? Understand theories, tools, and strategies of leadership. ? Understand how policy entrepreneurs develop and manage ideas for achieving the common good. ? Build a learning community. ? Assist learners in developing leadership strategies for their own work. Course Design ? This course is a participatory seminar designed to engage students in study, thought, discussion and reflection on eight capabilities of leadership: Leadership in Context, Personal Leadership, Team Leadership, Integrative Leadership, Organizational Leadership, Visionary Leadership, Political Leadership, Ethical Leadership, and Policy Entrepreneurship. ? In order to ensure that the course helps learners develop strategies for their own leadership work, everyone develops his or own leadership case throughout the course. ? Learners are assigned to a study group that typically meets for the hour before each class, or at another time convenient to the members. The groups provide opportunities to: o Review and discuss readings o Focus on learners' leadership cases, using exercises and other assignments o Build learning relationships o Prepare for class sessions Credit Requirements and Grading for A-F ? Participation -- Attend class and study groups; contribute to

discussion. Post bio sketch on web; post study group norms. Turn in evaluations of your study group members' participation. (20%) ? Reflection Leader ? Each person will serve as a reflection leader. (5%) ? Leadership Case and Class Memos a. Initial leadership case statement. * If instructor requires revisions, a new draft responding to their comments must be posted later. See course website and grid for further guidance. (3%). b. Outline for full leadership case analysis. See course website for further guidance. (7%) c. Class Memo (30%). These readings could be selected so that they contribute to the full leadership case analysis, and can "count" as outside readings.

PA 5941 Leadership for the Common Good**4 credit(s); prereq Major in public affairs or instr consent ;****Instructor:** Ray, Patricia Torres

Description: DRAFT Syllabus ? Spring 09 PA 5941 Leadership for the Common Good Wed. 5:45 pm ? 9:05 pm Instructor Gary DeCramer Room 241 Humphrey Institute gdecramer@umn.edu office: 612-625-3458 home: 651-686-5535 hours: 4:00 to 5:15 Wednesdays or by appointment Course Goals ? Understand theories, tools, and strategies of leadership. ? Understand how policy entrepreneurs develop and manage ideas for achieving the common good. ? Build a learning community. ? Assist learners in developing leadership strategies for their own work. Course Design ? This course is a participatory seminar designed to engage students in study, thought, discussion and reflection on eight capabilities of leadership: Leadership in Context, Personal Leadership, Team Leadership, Integrative Leadership, Organizational Leadership, Visionary Leadership, Political Leadership, Ethical Leadership, and Policy Entrepreneurship. ? In order to ensure that the course helps learners develop strategies for their own leadership work, everyone develops his or own leadership case throughout the course. ? Learners are assigned to a study group that typically meets for the hour before each class, or at another time convenient to the members. The groups provide opportunities to: o Review and discuss readings o Focus on learners' leadership cases, using exercises and other assignments o Build learning relationships o Prepare for class sessions Credit Requirements and Grading for A-F ? Participation -- Attend class and study groups; contribute to discussion. Post bio sketch on web; post study group norms. Turn in evaluations of your study group members' participation. (20%) ? Reflection Leader ? Each person will serve as a reflection leader. (5%) ? Leadership Case and Class Memos a. Initial leadership case statement. * If instructor requires revisions, a new draft responding to their comments must be posted later. See course website and grid for further guidance. (3%). b. Outline for full leadership case analysis. See course website for further guidance. (7%) c. Class Memo (30%). These readings could be selected so that they contribute to the full leadership case analysis, and can "count" as outside readings.

PA 5941 Leadership for the Common Good**4 credit(s); prereq Major in public affairs or instr consent ;****Instructor:** Shetty, Sudha

Description: Personal, team, organizational, visionary, political, and ethical aspects of leadership. Emphasizes building/experiencing a learning community.

PA 5990 Topics: Public Affairs--General Topics: The Art of Politics & the Ethics of Legislating**3 credit(s), max credits 9, 6 completions allowed; prereq Grad student or instr consent ;****Instructor:** Sviggum, Steven**Description:****PA 5990 Topics: Public Affairs--General Topics: Engaging the Public in Policy & Planning****3 credit(s), max credits 9, 6 completions allowed; prereq Grad student or instr consent ;****Instructor:** Benasutti, Merrie A

Description: Course description The Woodrow Wilson Foundation has identified the need for an evolving, more responsive graduate program focused around four themes: New Partnerships, New Paradigms, New Practices, and New People. This course provides a unique opportunity to develop and apply

these emerging themes by actively participating with a public. Students will explore a new level of "adventurous scholarship" that crosses disciplinary boundaries to foster the kind of work necessary to address contemporary social problems. Students will work with their neighbors in Cedar-Riverside to bring the public into policy and planning. The class is designed to provide students with an opportunity for praxis by connecting thought to action and theory to practice. By looking at issues of public affairs through the lens of Cedar-Riverside, students will be challenged to explore the complexities of public policy and planning within a community. Students will strengthen their skills and capacities in developing partnerships, addressing complex social issues, and building a stronger sense of democratic participation. Students will learn how to exercise leadership while sharing power and knowledge with community members, faculty and other students. The course is a year-long endeavor, divided into fall and spring semesters. Students are expected to complete the fall semester in order to take the spring semester capstone. The fall semester lays out a body of knowledge and a skill set revolving around the process of involving the public into policy and planning. During the spring semester students will apply the fall semester body of knowledge to a community-student determined capstone project. The projects will be done by small groups and will integrate policy areas such as transportation, housing, immigration, the arts, education, economic development, and the environment. The year-long course model provides unique benefits for all participants. The duration of the class organically creates an intentional learning environment among the student cohort, as well as with the instructor(s). Students rely on each other to work in the neighborhood and they learn from each other inside and outside the classroom. Also, the extended period of time creates greater, more sustainable trust between the neighborhood and the UMN. **Grading:** 30% reports/papers, 50% special projects, 20% class participation. Assignments and Grading Reflection papers (3 worth 10% each) are 30% of the final grade. A 5-10 page Organizational Profile worth 20% of the final grade. Class participation is worth 20% of the final grade.

PA 8001 Transforming Public Policy

A-F only, 4 credit(s); prereq 5941 or instr consent ;

Instructor: Bowman,Ruth

Description: Development of interdisciplinary understanding of one or more policy areas through explorations of theory, readings, cases, and model-building exercises. Articulating policy/system improvements and leadership implications for formulating/implementing them.

PA 8001 Transforming Public Policy

A-F only, 4 credit(s); prereq 5941 or instr consent ;

Instructor: Walkington,Thomas A

Description: Development of interdisciplinary understanding of one or more policy areas through explorations of theory, readings, cases, and model-building exercises. Articulating policy/system improvements and leadership implications for formulating/implementing them.

PA 8081 Capstone Workshop: Regulating Occupations in MN

A-F only, 3 credit(s); prereq [Grad major in [public policy or [urban and regional planning] or [science, technology, and environment policy]], completion of core courses] or instr consent ;

Instructor: Kleiner,Morris M

Description: "Regulating Occupations in Minnesota." The class will be working with the Minnesota Department of Commerce and the Health Occupation Program on the economic benefits and costs of regulating occupations in the state. Students will have an opportunity to evaluate occupational regulation for commercial and health occupations for top policymakers in the state.

PA 8081 Capstone Workshop: Political Advocacy in the Public Interest

A-F only, 3 credit(s); prereq [Grad major in [public policy or [urban and regional planning] or [science, technology, and environment policy]], completion of core courses] or instr

consent ;

Instructor: Fox,Jeannie

Description:

PA 8201 Environment and Infrastructure Planning

A-F only, 4 credit(s); prereq [Urban and regional planning] grad student or instr consent ;

Instructor: Pitt,David George

Description: Relationship between infrastructure, human settlement, and design. Natural resource systems as foundation of infrastructure provision. Environmental basis of, and political/legal/institutional frameworks for, land-use planning. Parallel computer lab, practicum assignment.

PA 8203 Neighborhood Revitalization Strategies and Theories

A-F only, 4 credit(s); prereq [Urban and regional planning] grad student or instr consent;

Instructor: Nelson,Kris S

Description: Policymaking/politics of planning in housing, community development, social policy. Connecting policy to local/regional politics. Role of institutional decision-making structures on policy outcomes. Importance of citizens, social movements, interest groups in policymaking process.

PA 8203 Neighborhood Revitalization Strategies and Theories

A-F only, 4 credit(s); prereq [Urban and regional planning] grad student or instr consent;

Instructor: Hollister,C David

Description: Policymaking/politics of planning in housing, community development, social policy. Connecting policy to local/regional politics. Role of institutional decision-making structures on policy outcomes. Importance of citizens, social movements, interest groups in policymaking process.

PA 8290 Advanced Topics in Planning: Advanced Transportation Technologies Seminar

1 credit(s), max credits 6;

Instructor: Donath,Max

Description:

PA 8312 Analysis of Discrimination

3 credit(s);

Instructor: Myers Jr,Samuel L

Description: Introduces students of policy analysis and other applied social sciences to tools for measuring and detecting discrimination in market and nonmarket contexts. Application of modern tools of labor econometrics and race relations research to specific problems of market and nonmarket discrimination.

PA 8790 Advanced Topics in Science, Technology, and Environmental Policy: Nanotechnology Policy

3 credit(s), max credits 6;

Instructor: Kuzma,Jennifer

Description: Nanotechnology includes an emerging set of technologies and applications conducted at the nanoscale (nanometer =one-billionth of a meter, molecular scale). It has been suggested that nanotechnology will revolutionize health, medicine, energy, agriculture, and manufacturing, as materials at this scale exhibit unusual and enhanced properties such as better electrical conductivity, penetrability, and specificity. Benefits of nanotechnology applications include targeted drug delivery, enhanced biomedical or chemical sensing capabilities, more precise agrochemical delivery, and highly efficient and low-cost solar energy. However, there is growing concern about the impacts of nanotechnology. This course will take an interdisciplinary approach to examining the interactions of nanotechnology with society and will expose students to scientific, legal, policy, and ethical issues. It will draw upon a diverse set of guest speakers and readings to illustrate legal, public policy, social, economic, and ethical issues surrounding nanotechnology. Ethicists, policy analysts, political scientists, social scientists, economists, and lawyers approach research on the societal implications of emerging technologies in different ways, yet the conglomerate of their work is what is ultimately important for society. Grades will be based on a final paper and class participation, with the length of the paper tailored to meet

graduation requirements in the relevant graduate college.
 GOALS * Enhance understanding of societal dimensions of nanotechnology and its applications * Increase ability to think and approach problems in inter- and multi-disciplinary ways * Appreciate different research methodologies for studying ELSI issues.

Style: 20% Lecture, 30% Discussion, 10% Small Group Activities, 10% Student Presentation, 30% Guest Speakers.

Grading: 50% reports/papers, 30% written homework, 20% in-class presentation.

PA 8821 National Security Policy

3 credit(s);

Instructor: Andreaesen, Steven Peter

Description: Politics and economics of national security policy. Defense policy, military strategy, and weapons procurement. While emphasis is on the United States, other countries also discussed.

PA 8991 Independent Study

1-3 credit(s), max credits 6, 6 completions allowed; prereq instr consent;

Instructor: Barnett, Michael Nathan

Description: None.

PA 8991 Independent Study

1-3 credit(s), max credits 6, 6 completions allowed; prereq instr consent;

Instructor: Hoenack, Stephen A

Description: Student may contact the instructor or department for information.

PA 8991 Independent Study

1-3 credit(s), max credits 6, 6 completions allowed; prereq instr consent;

Instructor: Kuzma, Jennifer

Description: Student may contact the instructor or department for information.

PA 8991 Independent Study

1-3 credit(s), max credits 6, 6 completions allowed; prereq instr consent;

Instructor: Friedemann-Sanchez, Greta

Description: Student may contact the instructor or department for information.

PA 8991 Independent Study

1-3 credit(s), max credits 6, 6 completions allowed; prereq instr consent;

Instructor: Stone, Melissa M

Description: Student may contact the instructor or department for information.

PA 8991 Independent Study

1-3 credit(s), max credits 6, 6 completions allowed; prereq instr consent;

Instructor: Jacobs, Larry

Description: Student may contact the instructor or department for information.

PA 8991 Independent Study

1-3 credit(s), max credits 6, 6 completions allowed; prereq instr consent;

Instructor: Keller PhD, Kenneth H

Description: Student may contact the instructor or department for information.

PA 8991 Independent Study

1-3 credit(s), max credits 6, 6 completions allowed; prereq instr consent;

Instructor: Fennelly, Katherine

Description: Student may contact the instructor or department for information.

PA 8991 Independent Study

1-3 credit(s), max credits 6, 6 completions allowed; prereq instr consent;

Instructor: Myers Jr, Samuel L

Description: Student may contact the instructor or department for information.

PA 8991 Independent Study

1-3 credit(s), max credits 6, 6 completions allowed; prereq instr consent;

Instructor: Levison, Deborah

Description: Student may contact the instructor or department for information.

PA 8991 Independent Study

1-3 credit(s), max credits 6, 6 completions allowed; prereq instr consent;

Instructor: Goetz, Edward Glenn

Description: Student may contact the instructor or department for information.

PA 8991 Independent Study

1-3 credit(s), max credits 6, 6 completions allowed; prereq instr consent;

Instructor: Kleiner, Morris M

Description: Student may contact the instructor or department for information.

PA 8991 Independent Study

1-3 credit(s), max credits 6, 6 completions allowed; prereq instr consent;

Instructor: Eustis, Nancy N

Description: Student may contact the instructor or department for information.

PA 8991 Independent Study

1-3 credit(s), max credits 6, 6 completions allowed; prereq instr consent;

Instructor: Kenney, Sally J

Description: Student may contact the instructor or department for information.

PA 8991 Independent Study

1-3 credit(s), max credits 6, 6 completions allowed; prereq instr consent;

Instructor: Kudrle, Robert T

Description: Student may contact the instructor or department for information.

PA 8991 Independent Study

1-3 credit(s), max credits 6, 6 completions allowed; prereq instr consent;

Instructor: Assaad, Ragui A

Description: Student may contact the instructor or department for information.

PA 8991 Independent Study

1-3 credit(s), max credits 6, 6 completions allowed; prereq instr consent;

Instructor: Hanratty, Maria J

Description: Student may contact the instructor or department for information.

PA 8991 Independent Study

1-3 credit(s), max credits 6, 6 completions allowed; prereq instr consent;

Instructor: Cao, Jason

Description: Student may contact the instructor or department for information.

PA 8991 Independent Study

1-3 credit(s), max credits 6, 6 completions allowed; prereq instr consent;

Instructor: Sandfort, Jodi R.

Description: Student may contact the instructor or department for information.

PA 8991 Independent Study

1-3 credit(s), max credits 6, 6 completions allowed; prereq instr consent;

Instructor: Atwood, J. Brian

Description: Student may contact the instructor or department for information.

PA 8991 Independent Study

1-3 credit(s), max credits 6, 6 completions allowed; prereq instr consent;

Instructor: Kiedrowski, P. Jay

Description: Student may contact the instructor or department for information.

PA 8991 Independent Study

1-3 credit(s), max credits 6, 6 completions allowed; prereq instr consent;

Instructor: Slotterback, Carissa Schively

Description: Student may contact the instructor or department for information.

PA 8991 Independent Study

1-3 credit(s), max credits 6, 6 completions allowed; prereq instr consent;

Instructor: Wilson, Elizabeth Joan

Description: Student may contact the instructor or department for information.

PA 8991 Independent Study

1-3 credit(s), max credits 6, 6 completions allowed; prereq instr consent;

Instructor: Temple, Judy

Description: Student may contact the instructor or department for information.

PA 8991 Independent Study

1-3 credit(s), max credits 6, 6 completions allowed; prereq instr consent;

Instructor: Soss, Joe

Description: Student may contact the instructor or department for information.

PA 8991 Independent Study

1-3 credit(s), max credits 6, 6 completions allowed; prereq instr consent;

Instructor: Allen, Ryan Patrick

Description: Student may contact the instructor or department for information.

PA 8991 Independent Study

1-3 credit(s), max credits 6, 6 completions allowed; prereq instr consent;

Instructor: Fan, Yingling

Description: Student may contact the instructor or department for information.

PA 8991 Independent Study

1-3 credit(s), max credits 6, 6 completions allowed; prereq instr consent;

Instructor: Lindsey, Greg H

Description: Student may contact the instructor or department for information.

PA 8991 Independent Study

1-3 credit(s), max credits 6, 6 completions allowed; prereq instr consent;

Instructor: Cohen, Dara Kay

Description: Student may contact the instructor or department for information.

Public Health

A-302 Mayo (Box 197)

PUBH 1003 Alcohol and College Life

OPT No Aud, 1 credit(s); prereq Fr or soph or PSEO;

Instructor: Wachter, Jerri Rae

Description: <p>Alcohol and College Life provides college students with factual information about how alcohol and other drugs affect college life. The course highlights stories and information pertinent to all students, regardless of whether or not they choose to drink. It supports students who do not drink, reinforces safety skills among students who do drink, and counters dangerous myths and behaviors. It emphasizes personal prevention strategies and responsible decision-making. It presents students with tips about how to navigate college life and be successful, including time management, getting involved on campus, meeting new people, etc. Students are encouraged to think about how the course topics apply to their own lives. Students will be able to:</p> Discuss basic scientific, medical, and socio-cultural aspects of alcohol as it relates to undergraduate college students. Describe personal prevention skills regarding alcohol, which maximize safety, academic achievement, and self-growth. Discuss expectations regarding alcohol from a personal viewpoint as well as the viewpoints of other students, parents, and the University. <p>Check out the attached video and visit our website (URL below) to learn more!</p> <p>Alcohol and College Life is intended for first-year college students. Sophomores and PSEO students may also enroll. Registration is allowed through the first two weeks of the semester. Permission numbers are available from Steve Thompson (thomp030@umn.edu) for those who need them.</p> <p>It generally takes a day or two for students who register after the first day of classes to show up on the class list and get access to the WebVista course site. So, students who register after the first day of classes should start by reading the course syllabus. The first quiz covers the syllabus.</p> <p>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/onlinelearningassessment.html</p> <p>Alcohol and College Life is entirely web-based, but it is not an independent study class. There are specific due dates for quizzes and assignments. Make sure you are aware of these dates so you do not miss them (see the course schedule section of the syllabus). Information about how to access the course web site and get started is also available in the course syllabus.</p> <p>All class communications will be sent to students' official U of M email accounts only. Students should check their U of M email accounts frequently throughout the semester. Students should contact the instructor, Jerri Wachter (wach0041@umn.edu), with any questions or concerns. Emails should be sent from U of M email accounts.</p> <p>**Style:** 100% Web Based. All lessons and readings are accessed via the WebVista course site. Lessons can be read and/or listened to via the computer, printed in text format, or downloaded in mp3 format. Coursework requires an average of 3 hours per week over 15 weeks.</p> <p>**Grading:** 75% quizzes, 5% written homework, 20% reflection paper. The lowest of 6 quiz scores gets dropped. Up to 10 points of extra credit may be earned. There are due dates for assignments and quizzes; late work will be penalized.</p>

PUBH 1005 Sleeps, Eats, and Exercises

1 credit(s); prereq Fr or soph or PSEO student;

Instructor: Wachter, Jerri Rae

Description: <p>Inactivity, poor nutrition, and inadequate sleep are common problems among college students and are leading contributors to a variety of short- and long-term consequences. Research indicates that, in addition to improving health, healthy habits can reduce stress and improve academic performance. Sleeps, Eats & Exercises is an introductory level course designed to provide students with the knowledge and skills they need to live a balanced life while in college. 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.</p> <p>Sleeps, Eats, and Exercises is entirely web-based, but it is

not an independent study class. There are specific due dates for quizzes and assignments. <p> <p>This course is intended for undergraduate students (primarily freshmen and sophomores) who are undecided in their major, intend to proceed in a major or minor concentration in one of the main topic areas, want a basic knowledge of one or more of the main topic areas, and/or want experience taking an online course. <p> <p>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/onlinelearningassessment.html

<p>Registration is allowed through the first two weeks of the semester. Permission numbers are available from Steve Thompson (thomp030@umn.edu) for those who need them. It generally takes a day or two for students who register after the first day of classes to show up on the class list and get access to the WebVista course site. <p> <p>All class communications will be sent to students' official U of M email accounts only. Students should check their U of M email accounts frequently throughout the semester. Students should contact the instructor, Jerri Wachter (wach0041@umn.edu), with any questions or concerns. Emails should be sent from U of M email accounts. </p>

Style: 100% Web Based. All lessons and readings are accessed via the WebVista course site. Lessons can be read and/or listened to via the computer, printed in text format, or downloaded in mp3 format. Coursework requires an average of 3 hours per week over 15 weeks.

Grading: 65% special projects, 20% quizzes, 15% reflection paper. Work within each main topic area is worth 20% of the course grade (total 60%). The final project is 20%. Other assignments account for 20%.

PUBH 3001 Personal and Community Health

2 credit(s);

Instructor: Farley, Dana Mark

Description: Introduction to scientific, socio-cultural, and attitudinal aspects of communicable and degenerative diseases, environmental and occupational health hazards, alcohol and drug problems; emphasis on role of education in health conservation, disease control, and drug use. The full syllabus for the course, including lecture outlines, textbook and exam information, can be found at the course URL listed below.

Style: 100% Lecture.

Grading: 40% final exam, 10% reports/papers, 25% other evaluation. on each of two mid-term exams

Exam Format: Multiple choice, fill-in-the-blank, short answer

PUBH 3003 Fundamentals of Alcohol and Drug Abuse

2 credit(s); Credit will not be granted if credit has been received for: PUBH 3004;

Instructor: Farley, Dana Mark

Description: Lecture and special readings on the scientific, sociocultural and attitudinal aspects of alcohol and other drug problems, with special emphasis on incidence, prevalence, high risk populations, prevention, and interventions. The full syllabus for the course, including lecture outlines, textbook and exam information, can be found at http://www.epi.umn.edu/academic/syllabi.shtm

Style: 100% Lecture.

Grading: 40% final exam, 10% reports/papers, 50% other evaluation. two midterm exams (25% each)

Exam Format: multiple choice

PUBH 3004 Basic Concepts in Personal and Community Health

4 credit(s); prereq credit will not be granted if credit received for: 3001; Credit will not be granted if credit has been received for: PUBH 3003;

Instructor: Farley, Dana Mark

Description: Introduction to scientific, socio cultural, and attitudinal aspects of communicable and degenerative diseases. This course includes environmental and occupational health hazards and alcohol and drug problems, with an emphasis on the roles of education and prevention.

Style: 100% Lecture.

Grading: 40% final exam, 10% reports/papers, 50% other

evaluation. four midsemester exams (12.5% each)

Exam Format: Multiple choice, short answer

PUBH 3005 Fundamentals of Alcohol and Drug Abuse for Teacher Education

1 credit(s); prereq Undergrad in agricultural educ or business/marketing educ or career/technical educ or foundations of educ or [kinesiology, pre-PE] or technology educ or music educ; Credit will not be granted if credit has been received for: PUBH 3003;

Instructor: Gardner, Jolynn

Description: Student may contact the instructor or department for information.

PUBH 3010 Public Health Approaches to HIV/AIDS

2 credit(s); Credit will not be granted if credit has been received for: PUBH 6010;

Instructor: Horvath, Keith J.

Description: The purpose of this undergraduate level course is to learn more about HIV/AIDS, with an emphasis on primary prevention (preventing HIV infection in those who are uninfected), secondary prevention (preventing development of HIV disease in those who are HIV-infected), and tertiary prevention (preventing morbidity and mortality in those with HIV disease). A significant focus of this course will be on community responses to HIV/AIDS, including social, medical, and political. This focus acknowledges the unique role of the community in structuring our response to HIV/AIDS historically and today.

PUBH 3040 Dying and Death in Contemporary Society: Implications for Intervention

2 credit(s); prereq Jr or sr or instr consent ; Credit will not be granted if credit has been received for: PUBH 6040;

Instructor: Gardner, Jolynn

Description: Student may contact the instructor or department for information.

PUBH 3050 Practicum in Peer Education I

A-F only, 2 credit(s); prereq [Upper div student, [demonstrated hth sci or hlth ed interests], [3001 or Concurrent registration is required (or allowed) in 3001 or 3004 or Concurrent registration is required (or allowed) in 3004]], instr consent ;

Instructor: Ehlinger MD, Edward Peter

Description: Student may contact the instructor or department for information.

PUBH 3093 Directed Study: Public Health

1-4 credit(s), max credits 4, 4 completions allowed; prereq instr consent ;

Instructor: French, Simone A

Description: Student may contact the instructor or department for information.

PUBH 3093 Directed Study: Public Health

1-4 credit(s), max credits 4, 4 completions allowed; prereq instr consent ;

Instructor: Farley, Dana Mark

Description: Student may contact the instructor or department for information.

PUBH 3100 Making Sense of Health Studies

A-F only, 2 credit(s); prereq High school algebra;

Instructor: Church, Timothy Robert

Description: Student may contact the instructor or department for information.

PUBH 3102 Issues in Environmental and Occupational Health

3 credit(s); Credit will not be granted if credit has been received for: PUBH 6102; Meets CLE req of Environment Theme;

Instructor: Allwood, Paul Bancroft

Description: This course is intended as an introduction to the field, current topics, and methods to control environmental health issues. The intent is to have you become sensitized to environmental health issues that are affecting you and your

community, and which you and your community, may be affecting in turn. We all live out our lives in an environment, and, whether we are aware of it or not, are constantly modifying our environment to protect our lives and the lives of others. Similarly, we are the beneficiaries of the hidden efforts of environmental health specialists and others whose work makes our lives safer and more healthful. It is the intent of this course to assist the student in becoming aware of the scope of the field of environmental health, becoming familiar with the concepts upon which environmental interventions are based, and to practice consulting the environmental health literature to identify appropriate interventions for community environmental health problems and practice identifying such problems and specifying interventions in their own community. The focus is on the interaction of humans and the environment and how this interaction affects the health of communities. Course content will be presented in a password protected site on the Internet with no face-to-face attendance on campus required. However electronic attendance will be taken and students are expected to do all online modules and activities as presented.

Style: Online delivery of course; This course is offered in an online learning environment only.

Grading: 50% reports/papers, 20% quizzes, 20% class participation, 10% other evaluation. Pre and Post tests (The actual test score does not matter but completing the tests accounts for 10% of total)

PUBH 3104 Environmental Health Effects: Introduction to Toxicology

2 credit(s); prereq Basic science coursework; undergrad coursework in [biology, chemistry, biochemistry] recommended; Credit will not be granted if credit has been received for: PUBH 6104;

Instructor: Wattenberg, Elizabeth Vaughn

Description: Student may contact the instructor or department for information.

PUBH 3202 What is Public Health?

OPT No Aud, 1 credit(s);

Instructor: Ehrenberg, Anne

Description: The online course will provide a broad overview of the public health system - what it is, its origins and evolution and how it is structured and administered at the federal, state and local levels in the United States. In addition it will provide a broad framework for understanding the mission, key concepts, principles and practices of population-based public health practice. Through the use of case studies, students will have an opportunity to see how the concepts may be applied. This course will not substitute for PubH 3001/3004.

Grading: 20% final exam, 50% reports/papers, 20% class participation, 10% other evaluation. critique of fellow student's paper

Exam Format: multiple choice

PUBH 3315 Clinical Research from Lab to Bedside to Populations

A-F only, 2 credit(s); prereq General biology course, general chemistry course;

Instructor: Luepker MD, Russell V

Description: Course Description This course is intended to provide a basic understanding of health research in humans. It describes research methods, contemporary topics, controversies and health careers in the field. The course includes perspectives from dentistry, medicine, nursing, pharmacy and public health. It is intended for students considering a health career. Course Goals and Objectives A. An understanding of research methods for health studies in individuals and populations. B. An understanding of the controversial questions in human health through specific examples and the different approaches to answering these questions through clinical research. C. A recognition of potential careers in health research.

PUBH 3905 Human Nutrition and Health

2 credit(s); prereq Jr or sr or instr consent ; Credit will not be granted if credit has been received for: PUBH 6905;

Instructor: Laska, Melissa Nelson

Description: This course covers nutrition topics of contemporary interest. Concepts/facts about science of human nutrition are discussed in relation to personal/community nutrition problems/concerns. This is an applied introductory course with labs.

Style: 30% Lecture, 15% Discussion, 40% Laboratory, 15% Guest Speakers. The course is structured as a weekly seminar with about an hour of lecture and an hour of lab work and small group activities. Discussion topics will be integrated throughout the course.

Grading: 30% mid exam, 30% final exam, 25% special projects, 15% laboratory evaluation.

PUBH 6003 Fundamentals of Alcohol and Drug Abuse

1 credit(s); prereq Master of education student or instr consent ; Credit will not be granted if credit has been received for: PUBH 3003;

Instructor: Gardner, Jolynn

Description: Student may contact the instructor or department for information.

PUBH 6015 HIV/AIDS: Epidemiology and Public Health Interventions

2 credit(s); prereq [[6320 or 6341 or equiv], [Epi or CHE or MCH or PubH Nutr] MPH student or Epi PhD student] or instr consent ;

Instructor: Rosser, B. R. Simon

Description:

Style: Methods of instruction include lectures, student presentations, in-class discussion, readings, and take-home papers. Attendance and participation in this class are included in the grading criteria. Although Dr. Lifson or Dr. Rosser will be giving mos

Grading: Activities by which students will be graded and their assigned weights are as follows: 25%--Oral student in-class presentation 25%--Research paper based on student presentation 25%--Policy Proposal 25%--In-class discussion and

PUBH 6020 Fundamentals of Social and Behavioral Science

A-F only, 3 credit(s), max credits 6; prereq Public health [MPH or MHA or certificate] student or health journalism MA major or instr consent ;

Instructor: Nelson, Toben F

Description: Student may contact the instructor or department for information.

PUBH 6020 Fundamentals of Social and Behavioral Science

A-F only, 3 credit(s), max credits 6; prereq Public health [MPH or MHA or certificate] student or health journalism MA major or instr consent ;

Instructor: Sirard, John R

Description: Student may contact the instructor or department for information.

PUBH 6035 Applied Research Methods

3 credit(s); prereq [[6414 or 6450 or equiv], [6034 or 6806 or equiv], [CHE or PubH Nutr] major] or instr consent ; 6420 recommended;

Instructor: Hennrikus, Deborah Jane

Description: The purpose of this course is to teach basic research skills and concepts needed to plan, conduct, and analyze data from a research project. Skills including performing literature searches; questionnaire development; scale construction; item analysis; data coding, entry and analysis; and report writing will be taught. Through the semester, students will develop a research question, devise and implement a brief survey to address that question, analyze their survey data using STATA statistical software, and write a report. Most of the class and lab activities will focus on the steps involved in completing this project. Students will also be given a chance to develop their STATA data management and analysis skills using existing datasets.

Style: 50% Lecture, 5% Discussion, 25% Laboratory, 15% Small Group Activities, 5% Student Presentation.

Grading: 40% reports/papers, 48% written homework, 5% in-class presentation, 7% class participation.

PUBH 6050 Community Health Theory and Practice I**3 credit(s); prereq Community health education major or instr consent ;****Instructor:** Sherwood,Nancy Elizabe**Description:** Student may contact the instructor or department for information.**PUBH 6066 Building Communities, Increasing Health:****Preparing for Community Health Work****2 credit(s); prereq Public health student or grad student or instr consent ;****Instructor:** Axtell,Sara Ann**Description:** Student may contact the instructor or department for information.**PUBH 6078 Public Health Policy As A Prevention Strategy****2 credit(s); prereq 2nd yr [CHE or MCH or PubH Nutr or EPI MPH or EPI] major or instr consent ;****Instructor:** Forster,Jean**Description:** Student may contact the instructor or department for information.**PUBH 6085 Prevention and Control of Tobacco and Alcohol Problems****3 credit(s);****Instructor:** Lando,Harry A**Description:** Strategies to prevent and control tobacco and alcohol problems. The course specifically focuses on community and individual level strategies to reduce the burden of tobacco and alcohol problems locally, nationally, and globally. Similarities and differences in public health approaches to tobacco and alcohol prevention and control are discussed. 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 6101 Environmental Health****A-F only, 2 credit(s); prereq Public health [MPH or MHA or certificate] student or instr consent ;****Instructor:** Toscano Jr,William A**Description:** This course explores the interaction between the environment and humans. The 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 6103 Exposure to Environmental Hazards****A-F only, 2 credit(s);****Instructor:** Ramachandran,Gurumurthy**Description:** Student may contact the instructor or department for information.**PUBH 6104 Environmental Health Effects: Introduction to Toxicology****OPT No Aud, 2 credit(s); prereq Basic science coursework; undergrad coursework in [biology, chemistry, biochemistry] recommended; Credit will not be granted if credit has been received for: PUBH 3104;****Instructor:** Wattenberg,Elizabeth Vaughn**Description:** Student may contact the instructor or department for information.**PUBH 6112 Risk Analysis: Application to Risk-Based Decision Making****3 credit(s); prereq Public health student or grad student or instr consent ;****Instructor:** Adgate,John L**Description:** Student may contact the instructor or department

for information.

PUBH 6115 Worker Protection Law**1 credit(s); prereq credit will not be granted if credit received for: 5110;****Instructor:** Austin,Michael L**Description:** How do we protect workers? We will focus on the role of government in protecting rights of citizens. Labor movement history will serve as a starting point for a discussion of modern systems for protecting workers from unsafe work places and compensating them for injuries that do occur. Law will be reviewed that protects individuals against class based discrimination and creates a "right" to work. II. Learning Objectives At the end of this course, students should be able to: *Discuss the history of worker protection law *Describe the role of government in protecting the safety and well being of citizens *Discuss legal issues underlying several worker protection policies *Discuss the legal basis for compensation for injuries to health and property, and its application to worker protection *Demonstrate techniques of persuasive legal research, writing and oral presentation III. Methods of Instruction and Work Expectations Students are encouraged to introduce issues of current interest from the media or from their workplace for discussion. These issues will be incorporated into the curriculum when appropriate. Through lecture and discussion, we will review public law that focuses on the role of government in protecting the safety and well being of citizens. Review of labor movement history will serve as a starting point for a discussion of modern systems for protecting workers from unsafe work places and compensating them for injuries that occur. In addition, we will review law that protects individuals against class based discrimination and creates a "right" to work. Each week students will write a short paragraph or one page outline that answers a question based on the reading assignment. Each student will conduct legal research and write five pages on the legal aspects of an environmental or public health problem. A rough draft must be submitted for review with the instructor before a final draft is submitted. The paper must advocate a public policy that might solve the problem, and include at least 10 primary references. Each student will prepare and present a 6-8 minute persuasive speech in class based on the legal research and writing project. Students will critique each other. Students will work in groups and prepare a classroom presentation regarding a public policy issue. Groups will research issues, identify stakeholders and advocate solutions. Presentations will be made from the perspectives of the various stakeholders. An outline of research materials with at least 10 primary references must be submitted. **Style:** 70% Lecture, 25% Discussion, 5% Student Presentation. **Grading:** 50% reports/papers, 30% written homework, 20% in-class presentation.**PUBH 6121 Topics: Injury Prevention in the Workplace, Community, and Home****1-2 credit(s), max credits 2, 1 completion allowed; prereq [6120, [6330 or 6341]] or instr consent ;****Instructor:** Gerberich PhD,Susan G**Description:** Student may contact the instructor or department for information.**PUBH 6131 Working in Global Health****2 credit(s);****Instructor:** Berthold,Peter**Description:** Student may contact the instructor or department for information.**PUBH 6132 Air, Water, and Health****A-F only, 2 credit(s);****Instructor:** Simcik,Matt**Description:** Student may contact the instructor or department for information.**PUBH 6164 Toxicological Analysis****A-F only, 2 credit(s); prereq Enrollment in toxicology concentration of Environmental Health PhD program, instr consent ;****Instructor:** Peterson,Lisa Ann

Description: Student may contact the instructor or department for information.

PUBH 6170 Introduction to Occupational Health and Safety
3 credit(s); prereq Environmental health major or instr consent ; Credit will not be granted if credit has been received for: NURS 5170;

Instructor: Nachreiner, Nancy Martha

Description: Student may contact the instructor or department for information.

PUBH 6180 Ecology of Infectious Diseases

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: CMB 5180;

Instructor: Singer, Randall

Description: Student may contact the instructor or department for information.

PUBH 6190 Environmental Chemistry

3 credit(s); prereq One course each in [gen chem, org chem] or instr consent ;

Instructor: Simcik, Matt

Description: Student may contact the instructor or department for information.

PUBH 6192 Measurement and Properties of Air Contaminants

A-F only, 2 credit(s); prereq Good grasp of [elementary physics, chemistry, mathematics including calculus];

Instructor: Ramachandran, Gurumurthy

Description: Student may contact the instructor or department for information.

PUBH 6193 Advanced Topics in Human Exposure Science

A-F only, 2 credit(s); prereq 6192 or instr consent ;

Instructor: Adgate, John L

Description: Student may contact the instructor or department for information.

PUBH 6281 Immigrant Health Issues

A-F only, 3-4 credit(s), max credits 4, 1 completion allowed; prereq Public health or grad student or instr consent ; Credit will not be granted if credit has been received for: PA 5451;

Instructor: Fennelly, Katherine

Description: Student may contact the instructor or department for information.

PUBH 6301 Fundamentals of Clinical Research

3 credit(s); prereq Clinical Research major or instr consent ; Credit will not be granted if credit has been received for:

PUBH 6305;

Instructor: Luepker MD, Russell V

Description: This course is intended to provide a foundation for the more advanced study that is necessary to become an accomplished clinical research investigator. This course will review the concepts that underlie successful clinical research design, implementation, and reporting. This course will also expose students to the resources and opportunities available to support clinical research at the academic health center.

Style: 40% Lecture, 10% Discussion, 50% Guest Speakers.

Grading: 20% mid exam, 30% final exam, 50% written homework.

PUBH 6309 Clinical Research: Career Development

S-N only, 1 credit(s), max credits 2; prereq Clinical research MS student or instr consent ;

Instructor: Luepker MD, Russell V

Description: This course is intended to provide advanced skills for faculty development in an academic clinical research career. It includes paper and grant writing skills, interaction with AHC research resources, and career development advice. It emphasizes the opportunities of multidisciplinary approaches to contemporary research questions.

Style: 20% Lecture, 40% Discussion, 40% Student Presentation.

Grading: 10% attendance, 40% in-class presentation, 50% class participation.

PUBH 6320 Fundamentals of Epidemiology

A-F only, 3 credit(s); prereq AHC or health journalism student or instr consent ;

Instructor: Punyko, Judy

Description: Student may contact the instructor or department for information.

PUBH 6320 Fundamentals of Epidemiology

A-F only, 3 credit(s); prereq AHC or health journalism student or instr consent ;

Instructor: Widome, Rachel L

Description: Student may contact the instructor or department for information.

PUBH 6325 Data Processing with PC-SAS

1 credit(s); prereq [Grad-level biostatistics course, [grad student or PubH student]] or instr consent ;

Instructor: Oakes, J Michael

Description: Student may contact the instructor or department for information.

PUBH 6341 Epidemiologic Methods I

A-F only, 3 credit(s), max credits 6; prereq AHC student or instr consent ;

Instructor: Flood, Andrew Peter

Description: Epidemiologic Methods I is a combination of a subject matter science and research methodology. Epidemiologic Methods I focuses on the latter component. The course introduces the study designs applied to human populations, including randomized trials and four types of observational studies (cohort, case-control, cross-sectional, ecological). Because cause-and-effect relations are at the heart of epidemiologic research, numerous related topics are taught in Epidemiologic Methods I including causal inference, bias, and effect modification.

Style: 70% Lecture, 10% Discussion, 20% Small Group Activities.

Grading: 48% mid exam, 28% final exam, 24% written homework. Grading Basis: Homework (24%): 8 homework assignments (3 pts ea) Exam 1 (24%): First 1/3 the course Exam 2 (24%): Cumulative with emphasis on material covered in middle 1/3 Exam 3 (28%): Cumulative with emphasis on material covered in final 1/3

PUBH 6341 Epidemiologic Methods I

A-F only, 3 credit(s), max credits 6; prereq AHC student or instr consent ;

Instructor: Spector, Logan G

Description: Epidemiologic Methods I is a combination of a subject matter science and research methodology. Epidemiologic Methods I focuses on the latter component. The course introduces the study designs applied to human populations, including randomized trials and four types of observational studies (cohort, case-control, cross-sectional, ecological). Because cause-and-effect relations are at the heart of epidemiologic research, numerous related topics are taught in Epidemiologic Methods I including causal inference, bias, and effect modification.

Style: 70% Lecture, 10% Discussion, 20% Small Group Activities.

Grading: 48% mid exam, 28% final exam, 24% written homework. Grading Basis: Homework (24%): 8 homework assignments (3 pts ea) Exam 1 (24%): First 1/3 the course Exam 2 (24%): Cumulative with emphasis on material covered in middle 1/3 Exam 3 (28%): Cumulative with emphasis on material covered in final 1

PUBH 6343 Epidemiologic Methods III

4 credit(s); prereq [6342, 6451] with a grade of at least B- or instr consent ;

Instructor: Schreiner, Pamela Jean

Description: Epidemiologic Methods III provides instruction in the analysis and interpretation of data from various epidemiological study designs. SAS is used to demonstrate epidemiological and statistical concepts in data analysis. The course is required for all M.P.H. students in Epidemiology.

Prerequisites include PubH 6342 (Epidemiologic Methods II) and PubH 6452 (Biostatistics II). Permission of the instructor is needed for substitutions or exemptions. Upon completion of this course, students will be able to: 1) Describe the research hypotheses that are appropriate for cross-sectional studies, case-control studies, and cohort studies; 2) Describe the rationale underlying the major techniques used to analyze data from epidemiological studies; 3) Know how to interpret data from various analyses of epidemiological data; 4) Explain how interactions, confounders and dose-response relations among variables are examined; and 5) Use basic SAS procedures to analyze data from epidemiological studies.

Style: 100% Lecture.

Grading: 50% mid exam, 30% final exam, 20% written homework. Exams are similar in content and structure to homework assignments and in-class exercises.

Exam Format: In-class exams with formulae provided.

PUBH 6343 Epidemiologic Methods III

4 credit(s); prereq [6342, 6451] with a grade of at least B- or instr consent ;

Instructor: Duval,Sue

Description: This course is required for all Epidemiology MPH students. Upon completion of this course, students will be able to A) Describe the research hypotheses that are appropriate for cross-sectional, case-control, and cohort studies; B) Describe the rationale underlying the major techniques used to analyze data from epidemiologic studies; C) Know how to interpret results from various analyses of epidemiologic data; D) Explain how interactions, confounding and dose-response relations among variables are examined; E) Use basic SAS procedures to analyze data from epidemiologic studies.

Style: 80% Lecture, 10% Discussion, 10% Small Group Activities. Six sessions are devoted to reviewing homework problems. These are class discussion format, followed by pertinent in-class problem sets, to be done either in small groups or individually depending on the student's learning style

Grading: 25% mid exam, 30% final exam, 20% written homework, 25% additional semester exams.

Exam Format: All three semester exams are closed book with formulae provided.

PUBH 6344 Epidemiologic Methods IV

2 credit(s); prereq [6342, 6343, 6451] with a grade of at least B- or or Concurrent registration is required (or allowed) in 6343 or instr consent ;

Instructor: Steffen PhD,Lyn M

Description: I. Course Description: This course will provide a practical, working knowledge of basic data cleaning techniques and provide an opportunity to develop basic skills in data analysis from cross-sectional, case-control, and cohort studies. The course will also provide to students the opportunity to describe the methods of the study, and present and interpret the results of analyzed data, and write sections of a manuscript in journal format. II. Course Prerequisites: Concurrent enrollment in Epidemiologic Methods III or successful completion of Epi Methods III (minimum grade B minus). Students are strongly encouraged to enroll concurrently in Epi Methods III and IV. III. Course Goals and Objectives At the end of this course, students will be able 1. To analyze data for basic epidemiological study designs, including cross-sectional, case-control, and cohort studies within the context of a research question: a. To understand basic SAS procedures b. To understand the data by plotting it, transforming data c. To create categorical variables from continuous variables d. To conduct descriptive statistics e. To conduct logistic regression analysis using SAS f. To conduct Cox proportional hazards regression using SAS g. To conduct linear regression analysis using SAS 2. To write the Methods section of a journal article 3. To write the Results section similar to a journal article, including the presentation of the results in table and figure format; 4. To write the Conclusion section, including the interpretation of study findings; IV. Methods of Instruction and Work Expectations Class sessions will combine lecture/discussion, problem-based learning (small-group discussion) exercises, and demonstration/hands-on computer applications in the classroom. Homework assignments will

include analysis of 3 datasets and presentation and interpretation of the results within the context of a research question.

Style: 35% Lecture, 15% Discussion, 50% Demonstration.

Grading: 20% quizzes, 60% written homework, 10% attendance, 10% class participation.

PUBH 6344 Epidemiologic Methods IV

2 credit(s); prereq [6342, 6343, 6451] with a grade of at least B- or or Concurrent registration is required (or allowed) in 6343 or instr consent ;

Instructor: Yuan,Jian-Min

Description: This course is designed to link the theoretical knowledge to the practicum of epidemiology. The course will provide you with an opportunity in critical thinking for the formulation of a research question and a related testable hypothesis in epidemiological studies. The course also will provide a practical, working knowledge on data management and analysis. Through the course, you will not only acquire skills in using computer software SAS to analyze existing datasets of cross-sectional study, retrospective (case-control) study, and prospective (or cohort) study, but also the ability in presentation and interpretation of study findings in oral and written communications.

PUBH 6348 Writing Research Grants

S-N only, 2 credit(s); prereq [[6341 or 8300], [6450 or 7401], [Epidemiology PhD or Clinical Research MS student]] or instr consent ;

Instructor: Harlow,Bernard Leslie

Description: Student may contact the instructor or department for information.

PUBH 6348 Writing Research Grants

S-N only, 2 credit(s); prereq [[6341 or 8300], [6450 or 7401], [Epidemiology PhD or Clinical Research MS student]] or instr consent ;

Instructor: Luepker MD,Russell V

Description: This course provides instruction and hands-on experience in the preparation of a NIH grant application. This course is required for all PhD students in Epidemiology as preparation for the written preliminary exam. It is also required for the Clinical Research MS Program.

Style: 60% Lecture, 5% Film/Video, 10% Discussion, 15% Student Presentation, 10% Guest Speakers.

Grading: 40% reports/papers, 25% written homework, 25% in-class presentation, 10% class participation. No Exams

PUBH 6355 Pathophysiology of Human Disease

4 credit(s); prereq Epidemiology major or public health nutrition major or instr consent ;

Instructor: Oberg MD,Charles N

Description: This course presents a compendium of human diseases relevant to the public health professional. The material will be presented from an epidemiologic perspective that focuses on disease prevalence, incidence, morbidity and mortality, risk factors, and prevention strategies. It will emphasize mechanisms of development (pathogenesis), and progression, pathophysiologic associations with risk factors, structural alterations (morphologic changes) resulting from the disease, and the functional consequences of these structural changes (clinical significance).

Style: 75% Lecture, 25% Laboratory.

Grading: 20% reports/papers, 80% quizzes.

PUBH 6360 Obesity and Eating Disorders: Etiology and Epidemiology

2 credit(s);

Instructor: French,Simone A

Description: Student may contact the instructor or department for information.

PUBH 6381 Genetics in Public Health

2 credit(s); prereq Grad student or professional school student or instr consent ;

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, 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: 40% Lecture, 20% Discussion, 20% Student Presentation, 20% Guest Speakers.

Grading: 25% mid exam, 25% reports/papers, 25% written homework, 10% attendance, 15% in-class presentation.

PUBH 6386 Public Health Aspects of Cardiovascular Disease
2 credit(s); prereq [[6330 or 6341], 6450, epidemiology major] or instr consent ;

Instructor: Folsom, Aaron R

Description: This course covers the epidemiology and prevention of cardiovascular disease (CVD). Focus is on epidemiological methods related to CVD, established and novel risk factors, national data sources, approaches to and national recommendations for CVD prevention. Controversies in CVD epidemiology and prevention are covered. The course is designed for epidemiology majors and those in related health fields. Basic epidemiology and statistics courses are pre-requisites. Learning objectives are 1) to understand the descriptive epidemiology of CVD and CVD risk factors, (2) to be able to interpret CVD epidemiologic data, (3) to become familiar with methods used in this field, and (4) to understand individual and population approaches to CVD prevention.

Style: 75% Lecture, 15% Discussion, 3% Small Group Activities, 6% Guest Speakers, 1% Web Based. Discussion includes critiquing articles

Grading: 10% mid exam, 40% final exam, 45% written homework, 5% in-class presentation.

Exam Format: Exams usually are take-home essay writing.

PUBH 6389 Nutritional Epidemiology

2 credit(s); prereq [[6330 or 6341], [epidemiology major or public health nutrition major]] or instr consent ;

Instructor: Harnack, Lisa Joan

Description: The course is designed to provide the student with familiarity with the design, conduct, analysis, and interpretation of epidemiologic studies related to nutrition. At the conclusion of this course students will be able to: 1.) Select the most appropriate dietary intake assessment method for a given research question, epidemiologic study design, and study population; 2.) Identify the strengths and limitations of each dietary intake assessment methodology currently available, and understand the implications of the limitations of each method on study results; 3.) Select the most appropriate epidemiologic study designs for various nutrition-related research questions by taking into account the strengths and limitations of various designs in relation to specific nutrition research questions; and 4.) Describe the data analysis and interpretation issues of special importance in nutritional epidemiology studies.

Style: 75% Lecture, 10% Discussion, 15% Small Group Activities.

Grading: 40% final exam, 20% special projects, 40% written homework.

Exam Format: Take home open book exam

PUBH 6414 Biostatistical Methods I

A-F only, 3 credit(s); prereq Public Health [MPH or certificate] student or [environmental health [MS or PhD] or health journalism MA or health informatics [MS or PhD]] major or instr consent ; Credit will not be granted if credit has been received for: PUBH 6450;

Instructor: Brearley, Ann M.

Description: Student may contact the instructor or department for information.

PUBH 6414 Biostatistical Methods I

A-F only, 3 credit(s); prereq Public Health [MPH or certificate] student or [environmental health [MS or PhD] or health journalism MA or health informatics [MS or PhD]] major or instr consent ; Credit will not be granted if credit has been received for: PUBH 6450;

Instructor: Telke, Susan Elizabeth

Description: Student may contact the instructor or department for information.

PUBH 6420 Introduction to SAS Programming

1 credit(s); prereq Health sciences grad student or instr consent ;

Instructor: Grandits, Gregory Alan

Description: Student may contact the instructor or department for information.

PUBH 6450 Biostatistics I

A-F only, 4 credit(s); prereq [College-level algebra, health sciences grad student] or instr consent ; Credit will not be granted if credit has been received for: PUBH 6414;

Instructor: Telke, Susan Elizabeth

Description: Student may contact the instructor or department for information.

PUBH 6450 Biostatistics I

A-F only, 4 credit(s); prereq [College-level algebra, health sciences grad student] or instr consent ; Credit will not be granted if credit has been received for: PUBH 6414;

Instructor: Eberly, Lynn Elizabeth

Description: Student may contact the instructor or department for information.

PUBH 6470 SAS Procedures and Data Analysis

3 credit(s); prereq [6450, 6451] or [7405, 7406] or [Stat 5101, Stat 5102];

Instructor: Thomas, William

Description: PubH 6470 introduces students with a background in statistics to programming, graphics, and data analysis using SAS. The course concentrates on nuts-and-bolts programming using PC-SAS, data editing and reformatting, as well as statistical applications. Students will complete and present a data analysis for a final class project, using data from the student's field if possible. Applications will include mainly regression methods: general linear models, nonparametric smoothing, logistic regression, proportional hazards regression, plus bootstrap methods, and methods for repeated measurements of continuous and categorical outcomes. Homework exercises involve both data cleaning and data analysis.

Style: 50% Lecture, 40% Laboratory, 10% Student Presentation.

Grading: 25% mid exam, 25% special projects, 50% written homework.

PUBH 6541 Statistics for Health Management Decision Making

3 credit(s); prereq Health care admin student or instr consent ;

Instructor: Abraham, Jean Marie

Description: Student may contact the instructor or department for information.

PUBH 6541 Statistics for Health Management Decision Making

3 credit(s); prereq Health care admin student or instr consent ;

Instructor: Carlin, Caroline S

Description: Student may contact the instructor or department for information.

PUBH 6542 Management of Health Care Organizations

A-F only, 3 credit(s); prereq Health care admin student;

Instructor: Begun, James Warren

Description: Student may contact the instructor or department for information.

PUBH 6555 Topics in Health Economics

A-F only, 2 credit(s);

Instructor: Town, Robert James

Description: Student may contact the instructor or department for information.

PUBH 6556 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 6556 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 6558 Health Finance II

3 credit(s); prereq [[Health care admin or PubH admin/policy] student, familiarity with computerized spread-sheets]] or instr consent ;

Instructor: McCullough, Jeffrey S

Description: Student may contact the instructor or department for information.

PUBH 6560 Operations Research and Quality in Health Care

A-F only, 2 credit(s); prereq Grad-level statistics/management coursework;

Instructor: Pothhoff, Sandra Jean

Description: Student may contact the instructor or department for information.

PUBH 6562 Information Technology in Health Care

2 credit(s);

Instructor: Parente, Stephen T

Description: Student may contact the instructor or department for information.

PUBH 6564 Managed Care

A-F only, 2 credit(s); prereq MHA or MBA or HSRP or PHA student or instr consent ;

Instructor: Christianson, Jon B

Description: Student may contact the instructor or department for information.

PUBH 6565 Health Care Delivery Design and Innovation

A-F only, 2 credit(s), max credits 4; prereq Public health MPH or MHA or certificate student or instr consent ;

Instructor: Armbruster, Ryan Richard

Description: Student may contact the instructor or department for information.

PUBH 6568 Interprofessional Teamwork in Health Care

A-F only, 2 credit(s); prereq [Public health MPH or MHA or certificate student] or [health services research, policy/admin] MS student or instr consent ;

Instructor: Mosser MD, Gordon

Description: PubH 6568, Interprofessional Teamwork in Health Care, is a course for students who intend to work in interprofessional teams or already do. The purpose of the course is to improve students' abilities to function in teams by using general principles of teamwork, knowledge of various health care professions, knowledge of teams as they function in health care, and knowledge of methods for improving team function. Among the topics covered are team formation, leading teams, decision making in teams, managing conflict in teams, and some aspects of using teams for quality and safety improvement. The course emphasizes clinical teams that include nurses, pharmacists, administrators, and physicians. The role of public health practitioners is also discussed. Students are asked to characterize and critique teams in which they now function and to do a project in which they observe and critique teams in health care settings in the Twin Cities.

PUBH 6570 Topics: Health Care Administration: Introduction to Integrated Health Systems

2 credit(s), max credits 20, 5 completions allowed; prereq

Health care admin student or instr consent ;

Instructor: Zismer, Daniel Kevin

Description: Student may contact the instructor or department for information.

PUBH 6572 Management for Clinical Research

2 credit(s); prereq Pursuing clinical research recommended;

Instructor: Mosser MD, Gordon

Description: Student may contact the instructor or department for information.

PUBH 6617 Practical Methods for Secondary Data Analysis

3 credit(s); prereq Public health [MPH or certificate] student or epidemiology PhD major or instr consent ;

Instructor: Oakes, J Michael

Description: Student may contact the instructor or department for information.

PUBH 6627 Sexuality Education: Criteria, Curricula, and Controversy

1 credit(s); prereq Prefer public health student or grad student or professional in public health or education;

Instructor: Brett, Lynn Muenzenberger

Description: Student may contact the instructor or department for information.

PUBH 6630 Foundations of Maternal and Child Health Leadership

3 credit(s); prereq Public Health MCH major or instr consent ; Credit will not be granted if credit has been received for:

PUBH 6655;

Instructor: Oberg MD, Charles N

Description: 1. First, it is designed to orient you to a maternal and child public health perspective for assessing and meeting the health needs of women, children, adolescents and families. The class will examine historical and current principles, programs, policies, and practices related to these populations. Historically, MCH has focused on children and their mothers; however, today MCH emphasizes women's health beyond their reproductive and parenting roles, and it also emphasizes families (and other family members such as fathers and grandparents) as the critical social context influencing children's health and development. 2. Second, it is designed to promote MCH leadership through the integration of core MCH content, critical competencies and mentorship.

Style: 60% Lecture, 20% Discussion, 20% Small Group Activities.

Grading: 80% reports/papers, 20% class participation.

PUBH 6675 Women's Health

2 credit(s); prereq Public health student or health sciences grad student or instr consent ;

Instructor: Hellerstedt, Wendy L

Description: Student may contact the instructor or department for information.

PUBH 6700 Foundations of Public Health

3 credit(s);

Instructor: Virnig, Beth A.

Description: In this course, we will examine the history, values, contexts, principles, frameworks, and organization of delivery systems that are a foundation for public health administration and practice. We will focus on the administrative processes and strategies that drive and support achieving results efficiently, effectively, and responsively. We will explore policy and programming challenges and opportunities in strategic public health issues. Grounded in theory and concepts, we will incorporate the core competencies and skills for public health professionals and focus on developing the problem solving and decision making skills through case studies and debates.

Style: 40% Lecture, 40% Discussion, 10% Small Group Activities, 10% Student Presentation.

PUBH 6717 Decision Analysis for Health Care

2 credit(s);

Instructor: Kuntz, Karen M

Description: Influenza immunization rates among non-elderly individuals with high-risk medical conditions are below target levels in the United States. How can we optimize vaccine delivery for these individuals, particularly during periods of national influenza vaccine shortages? There is disagreement among physicians, administrators, and board members about how this year's capital should be allocated to competing strategic initiatives. In which projects should the hospital system invest its capital? A bioterrorism attack would require rapid deployment of medical and pharmaceutical supplies to exposed individuals. What are the optimal strategies for pre-attack stockpiling and post-attack distribution and dispensing of supplies? Decisions in health care and public health at the individual, organizational, and policy levels involve tradeoffs among competing objectives, uncertainty about outcomes, incomplete information, and different attitudes among stakeholders towards risk and reward. In this course you will learn quantitative methods for structuring, analyzing and solving decision problems using decision trees and decision tree software, with a focus on the process of decision making aimed at providing insights into the situation. Upon completion of the course, you will be equipped to apply these methods to a range of practical problems you will face in your clinical, managerial or research career.

Style: 80% Lecture, 20% Discussion.

Grading: 30% mid exam, 50% final exam, 10% written homework, 10% class participation.

Exam Format: Take-home exams, problem solving.

PUBH 6724 The Health Care System and Public Health
3 credit(s); prereq Public health or grad student or instr consent ;

Instructor: Blewett, Lynn Ann

Description: Student may contact the instructor or department for information.

PUBH 6727 Health Leadership and Effecting Change
2 credit(s); prereq Public health MPH or MHA or certificate student or [health services research, policy/admin] MS student or instr consent ;

Instructor: Mosser MD, Gordon

Description: PubH 6727, Health Leadership and Effecting Change, is designed primarily for students who aim to be leaders in healthcare organizations, especially delivery organizations such as hospitals, medical groups, long-term care facilities, and integrated delivery systems. Students learn core concepts of leadership, including principles of organizational change. They use a self-assessment instrument to understand their own current strengths and shortcomings as a leader and to plan for their professional development. The readings are books and articles from the general leadership literature, which are applied in discussion of health care settings. Small teams of students carry out projects to learn how change has been accomplished in real world health care settings. Their findings are reported orally to the class and in writing.

PUBH 6741 Ethics in Public Health: Professional Practice and Policy

A-F only, 1 credit(s); prereq Public health [MPH or MHA or certificate] student or environmental health [MS or PhD] major or instr consent ;

Instructor: Turner, Leigh

Description: Student may contact the instructor or department for information.

PUBH 6742 Ethics in Public Health: Research and Policy
A-F only, 1 credit(s); prereq Public health [MPH or certificate] student or [clinical research MS or Environmental health [MS or PhD] or epidemiology PhD or [health services research, policy/admin [MS or PhD]] major or instr consent ;

Instructor: DeBruin PhD, Debra Ann

Description: Student may contact the instructor or department for information.

PUBH 6751 Principles of Management in Health Services

Organizations

A-F only, 2 credit(s); prereq [Public health MPH or MHA or certificate] student or [environmental health MS or PhD] student or dentistry MS student or instr consent ;

Instructor: Riley, William J

Description: Student may contact the instructor or department for information.

PUBH 6751 Principles of Management in Health Services

Organizations

A-F only, 2 credit(s); prereq [Public health MPH or MHA or certificate] student or [environmental health MS or PhD] student or dentistry MS student or instr consent ;

Instructor: Begun, James Warren

Description: Equips students with analytical skills to understand organizations and organization behavior. Develops management and leadership competencies that enable students to make a positive difference in their work organizations and in the health of populations.

Style: 50% Lecture, 5% Film/Video, 25% Discussion, 20% Small Group Activities.

Grading: 30% mid exam, 40% reports/papers, 30% written homework.

PUBH 6755 Budgeting and Planning for Public Health
OPT No Aud, 2 credit(s); prereq Academic Health Center grad student or instr consent ;

Instructor: Sainfort, Francois

Description: Student may contact the instructor or department for information.

PUBH 6765 Continuous Quality Improvement: Methods and Techniques

3 credit(s);

Instructor: Riley, William J

Description: Student may contact the instructor or department for information.

PUBH 6801 Health and Human Rights

2 credit(s); prereq Grad student or professional student or instr consent ;

Instructor: Allison, Kirk Charles

Description: Student may contact the instructor or department for information.

PUBH 6802 Managing Electronic Health Information

3 credit(s); prereq Familiarity with [Windows-based environment, Microsoft Word, Excel, Access, Web browser, graphical package, data collection/analysis projects, internet] or instr consent ;

Instructor: Wholey, Douglas R

Description: Student may contact the instructor or department for information.

PUBH 6806 Principles of Public Health Research
2 credit(s); prereq Public health or grad or professional school student or instr consent ;

Instructor: Call PhD, Kathleen Thiede

Description: Student may contact the instructor or department for information.

PUBH 6810 Survey Research Methods

OPT No Aud, 3 credit(s);

Instructor: Rockwood, Todd H

Description: Student may contact the instructor or department for information.

PUBH 6811 Health Disparities Research: Measures, Methods, and Data

OPT No Aud, 2 credit(s); prereq [[Grad or professional] student, introductory research methods course] or instr consent ;

Instructor: Call PhD, Kathleen Thiede

Description: Student may contact the instructor or department for information.

PUBH 6832 Economics of the Health Care System

3 credit(s); prereq [[Grad or professional school] student, knowledge of [microeconomic analytical tools, analytical statistics]] or instr consent ; Credit will not be granted if credit has been received for: ECON 5890;

Instructor: Nyman, John A.

Description: This course is intended to give the student an understanding of and appreciation for the traditional issues in health economics. Historical, theoretical and empirical perspectives are applied to the various topics covered: the role of prices, the production of health, the demand for health care, the demand for health insurance, the health insurance market and managed care, the market for physicians' services, production and cost of health care in hospitals and nursing homes, labor issues, pharmaceuticals, cost effectiveness analysis, equity and efficiency, role of government in the health economy, international comparisons, Medicaid and Medicare, and national health insurance and reform. The course relies on the use of conventional microeconomic analytical tools. Students should also have a basic knowledge of fundamental descriptive and analytical statistics. Students will not be expected to know calculus.

PUBH 6863 Understanding Health Care Quality

2 credit(s);

Instructor: Kane, Robert L

Description: Student may contact the instructor or department for information.

PUBH 6901 Foundations of Public Health Nutrition Leadership

2 credit(s); prereq Public health nutrition major or instr consent ;

Instructor: Stang, Jamie Sue

Description: This course provides an overview of the fundamental roles, responsibilities and competencies needed to succeed in the field of public health nutrition. It is designed for students in the public health nutrition MPH program. During this course, you will build skills in essential public health nutrition functions such as communications, cultural competence, professional self-assessment and public policy and advocacy. Further, this course will enable you to articulate a personal leadership style and philosophy related to public health nutrition practice.

Style: 55% Lecture, 10% Discussion, 30% Small Group Activities, 5% Student Presentation.

Grading: 55% special projects, 10% attendance, 15% reflection paper, 20% in-class presentation.

PUBH 6902 Maternal and Infant Nutrition

2 credit(s); prereq 3xxx nutrition course or equiv or instr consent ;

Instructor: Stang, Jamie Sue

Description: This 2-credit course provides an overview of nutrition issues affecting pregnant and postpartum women, females of reproductive age, infants and children through five years of age. The course integrates public health practice and policy recommendations with evidence-based clinical practice guidelines to provide a comprehensive view of maternal and infant nutrition issues seen by practitioners in community settings. Students will complete case studies or projects related to topics discussed in class and will participate in a group program planning and mock grant review activity.

Style: 80% Lecture, 10% Film/Video, 10% Small Group Activities.

Grading: 45% reports/papers, 45% special projects, 10% class participation.

PUBH 6903 Child and Adolescent Nutrition

2 credit(s); prereq Grad student or professional school student or instr consent ;

Instructor: Story PhD, Mary T

Description: This course focuses on the major public health nutrition-related issues and concerns of school aged children and adolescents (5-21 years of age) and addresses factors influencing eating behaviors and physical activity patterns, nutrition education, intervention strategies, and programs and

policies to promote healthy eating and physical activity. Special attention is placed on child and adolescent obesity. The course is designed for health science and other graduate-level students.

PUBH 6905 Human Nutrition and Health

2 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: PUBH 3905;

Instructor: Laska, Melissa Nelson

Description: This course covers nutrition topics of contemporary interest. Concepts/facts about science of human nutrition are discussed in relation to personal/community nutrition problems/concerns. This is an applied introductory course with labs.

Style: 25% Lecture, 15% Discussion, 40% Laboratory, 5% Student Presentation, 15% Guest Speakers. The course is structured as a weekly seminar with about an hour of lecture and an hour of lab work and small group activities. Discussion topics will be integrated throughout the course.

Grading: 22% mid exam, 23% final exam, 20% reports/papers, 15% special projects, 5% in-class presentation, 15% laboratory evaluation.

PUBH 7094 Master's Project: Community Health Education

S-N only, 1-6 credit(s), max credits 6; prereq CHE major, instr consent ;

Instructor: Toomey, Traci Louise

Description: Student may contact the instructor or department for information.

PUBH 7096 Field Experience: Community Health Education

S-N only, 1-6 credit(s), max credits 6; prereq CHE major, instr consent ;

Instructor: 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; prereq instr consent ;

Instructor: Brosseau, Lisa M

Description: Student may contact the instructor or department for information.

PUBH 7194 Master's Project: Environmental Health

S-N only, 1-3 credit(s), max credits 5, 5 completions allowed; prereq Environmental health major, instr consent ;

Instructor: Gerberich PhD, Susan G

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; prereq Environmental health major, instr consent ;

Instructor: Adgate, John L

Description: Student may contact the instructor or department for information.

PUBH 7280 Public Health Advocacy Through Professional Organizations

S-N only, 0.5 credit(s), max credits 1; prereq Public health practice MPH major or instr consent ;

Instructor: Hart MD, James F

Description: Student may contact the instructor or department for information.

PUBH 7291 Independent Study: Public Health Practice

S-N only, 0.5-4 credit(s), max credits 20, 20 completions allowed; prereq Public health practice MPH major, instr consent ;

Instructor: Hart MD, James F

Description: Student may contact the instructor or department for information.

PUBH 7294 Master's Project: Public Health Practice

S-N only, 0.5-4 credit(s), max credits 12, 3 completions

- allowed; prereq Public health practice MPH major, instr consent ;
Instructor: Schmidt,Peggy Lynn
Description: Student may contact the instructor or department for information.
- PUBH 7296 Field Experience: Public Health Practice**
 S-N only, 0.5-4 credit(s), max credits 12, 4 completions allowed; prereq Public health practice MPH major, instr consent ; Credit will not be granted if credit has been received for: CVM 6516;
Instructor: Schmidt,Peggy Lynn
Description: Student may contact the instructor or department for information.
- PUBH 7391 Independent Study: Epidemiology**
 1-4 credit(s), max credits 4, 4 completions allowed; prereq [EPI major or grad student], instr consent ;
Instructor: Oakes,J Michael
Description: Student may contact the instructor or department for information.
- PUBH 7394 Master's Project: Epidemiology**
 S-N only, 1-6 credit(s), max credits 6; prereq Epidemiology MPH student, instr consent ;
Instructor: Rosser,B. R. Simon
Description: Student may contact the instructor or department for information.
- PUBH 7396 Field Experience: Epidemiology**
 S-N only, 1-5 credit(s), max credits 5; prereq Epidemiology major, instr consent ;
Instructor: Harlow,Bernard Leslie
Description: Student may contact the instructor or department for information.
- PUBH 7401 Fundamentals of Biostatistical Inference**
 4 credit(s); prereq Background in matrix algebra, calculus; intended for PhD students in public health and other health sciences who need rigorous approach to probability/statistics and statistical inference with applications to research in public health;
Instructor: Maclehose,Richard F
Description: Student may contact the instructor or department for information.
- PUBH 7405 Biostatistics: Regression**
 4 credit(s); prereq [[Stat 5101 or Concurrent registration is required (or allowed) in Stat 5101], biostatistics major] or instr consent ;
Instructor: Le,Chap T.
Description: Student may contact the instructor or department for information.
- PUBH 7430 Statistical Methods for Correlated Data**
 3 credit(s); prereq [[6420 or equiv], [6451 or 6406 or Stat 5303 or equiv], familiarity with matrix notation] or instr consent ;
Instructor: Rudser,Kyle
Description: Student may contact the instructor or department for information.
- PUBH 7445 Statistics for Human Genetics and Molecular Biology**
 3 credit(s); prereq [6450, [6451 or equiv]] or instr consent ; background in molecular biology recommended;
Instructor: Reilly,Cavan Sheerin
Description: Student may contact the instructor or department for information.
- PUBH 7450 Survival Analysis**
 3 credit(s); prereq 7406, 7407, [STAT 5102 or STAT 8102];
Instructor: Pan,Wei
Description: Student may contact the instructor or department for information.
- PUBH 7460 Advanced Statistical Computing**
 3 credit(s); prereq [7405, biostatistics major, [C or FORTRAN]] or instr consent ;
Instructor: Connnett,John E
Description: Student may contact the instructor or department for information.
- PUBH 7494 Master's Project: Biostatistics**
 S-N only, 1-3 credit(s), max credits 3, 1 completion allowed; prereq Biostatistics major, instr consent Biostatistics major, instr consent Biostatistics major, instr consent ;
Instructor: Maclehose,Richard F
Description: Student may contact the instructor or department for information.
- PUBH 7580 Organizational Management in Long Term Care**
 2-4 credit(s), max credits 4, 1 completion allowed;
Instructor: Grant,Leslie Alan
Description: Student may contact the instructor or department for information.
- PUBH 7582 Practicum in Long-Term Care Administration**
 S-N only, 4 credit(s); prereq [7580, 7581, 7583] or [7587, 7588];
Instructor: Grant,Leslie Alan
Description: Student may contact the instructor or department for information.
- PUBH 7584 Health Care and Medical Needs**
 A-F only, 2 credit(s);
Instructor: Grant,Leslie Alan
Description: Student may contact the instructor or department for information.
- PUBH 7588 Information Uses in Long-Term Care**
 A-F only, 2 credit(s); prereq Some knowledge of computers;
Instructor: Potthoff,Sandra Jean
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; prereq instr consent ;
Instructor: Grant,Leslie Alan
Description: Student may contact the instructor or department for information.
- PUBH 7694 Master's Project: Maternal and Child Health**
 S-N only, 2-4 credit(s), max credits 4; prereq Maternal/child health major, instr consent ;
Instructor: Garcia PhD,Carolyn Marie
Description: Student may contact the instructor or department for information.
- PUBH 7696 Field Experience: Maternal and Child Health**
 S-N only, 1-4 credit(s), max credits 4; prereq Maternal/child health major, instr consent ;
Instructor: Himes,John H
Description: Student may contact the instructor or department for information.
- PUBH 7784 Master's Project Seminar: Public Health Administration and Policy**
 A-F only, 1 credit(s), max credits 2; prereq Public health administration/policy major;
Instructor: McAlpine,Donna D
Description: Student may contact the instructor or department for information.
- PUBH 7894 MS in Health Services Research, Policy & Administration Plan B Project**
 S-N only, 1 credit(s), max credits 2; prereq [Health Services Research, Policy/Administration] MS student;
Instructor: Nyman,John A.
Description: Student may contact the instructor or department for information.

for information.

PUBH 7894 MS in Health Services Research, Policy & Administration Plan B Project
S-N only, 1 credit(s), max credits 2; prereq [Health Services Research, Policy/Administration] MS student;
Instructor: Wholey,Douglas R
Description: Student may contact the instructor or department for information.

PUBH 7894 MS in Health Services Research, Policy & Administration Plan B Project
S-N only, 1 credit(s), max credits 2; prereq [Health Services Research, Policy/Administration] MS student;
Instructor: McAlpine,Donna D
Description: Student may contact the instructor or department for information.

PUBH 7894 MS in Health Services Research, Policy & Administration Plan B Project
S-N only, 1 credit(s), max credits 2; prereq [Health Services Research, Policy/Administration] MS student;
Instructor: Town,Robert James
Description: Student may contact the instructor or department for information.

PUBH 7894 MS in Health Services Research, Policy & Administration Plan B Project
S-N only, 1 credit(s), max credits 2; prereq [Health Services Research, Policy/Administration] MS student;
Instructor: Kuntz,Karen M
Description: Student may contact the instructor or department for information.

PUBH 7991 Independent Study: Public Health Nutrition
1-4 credit(s), max credits 20, 20 completions allowed; prereq [PubH Nutr MPH student or Nutr grad student], instr consent ;
Instructor: Stang,Jamie Sue
Description: Student may contact the instructor or department for information.

PUBH 7994 Master's Project: Public Health Nutrition
S-N only, 1-6 credit(s), max credits 6; prereq PubH Nutr major, instr consent ;
Instructor: Stang,Jamie Sue
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; prereq Public health nutrition major, dept consent ;
Instructor: Himes,John H
Description: Student may contact the instructor or department for information.

PUBH 8120 Occupational Health and Safety Research Seminar
S-N only, 1 credit(s), max credits 12, 12 completions allowed; prereq [6120, [6330 or 6341], 6450, environmental health major, [OIPRTP specialty or equiv]] or instr consent ;
Instructor: Gerberich PhD,Susan G
Description: Student may contact the instructor or department for information.

PUBH 8140 Validity Concepts in Epidemiologic Research
S-N only, 2 credit(s);
Instructor: Maldonado,George
Description: Student may contact the instructor or department for information.

PUBH 8141 Doctoral Seminar in Observational Inference
S-N only, 2 credit(s), max credits 20, 10 completions allowed; prereq 8140, doctoral student in public health, instr consent ; [6330, 6340] or [6341, 6342] recommended;
Instructor: Church,Timothy Robert

Description: Student may contact the instructor or department for information.

PUBH 8160 Advanced Toxicology
2 credit(s); prereq [6160, one course in biochem, one course in molecular biol] or instr consent ;
Instructor: Wattenberg,Elizabeth Vaughn
Description: Student may contact the instructor or department for information.

PUBH 8161 Current Literature in Toxicology
S-N only, 1 credit(s), max credits 3, 3 completions allowed; prereq 6104;
Instructor: Wattenberg,Elizabeth Vaughn
Description:
Style: 50% Discussion, 50% Student Presentation.
Grading: 50% in-class presentation, 50% class participation.

PUBH 8163 Toxicology
A-F only, 5 credit(s); prereq Enrolled in toxicology concentration of environmental health PhD program;
Instructor: Wattenberg,Elizabeth Vaughn
Description: Student may contact the instructor or department for information.

PUBH 8165 Current Topics in Toxicology
S-N only, 1 credit(s), max credits 2; prereq [Environmental health PhD, toxicology concentration] student or instr consent ;
Instructor: Toscano Jr,William A
Description: Student may contact the instructor or department for information.

PUBH 8166 Experiences in Toxicology Research
A-F only, 3 credit(s); prereq Environmental health PhD student in toxicology concentration;
Instructor: Peterson,Lisa Ann
Description: Student may contact the instructor or department for information.

PUBH 8194 Directed Research: Environmental Health
1-6 credit(s), max credits 6, 1 completion allowed; prereq instr consent ;
Instructor: Ramachandran,Gurumurthy
Description: Student may contact the instructor or department for information.

PUBH 8300 Topics: Epidemiology: Advanced Epidemiologic Methods: Concepts
3 credit(s), max credits 20, 20 completions allowed;
Instructor: Oakes,J Michael
Description: This doctoral seminar introduces students to the conceptual foundations of some fundamental issues in epidemiologic methodology. The focus is on how and why a given method, design, or approach might help us explain population health. The emphasis is on the strengths, limitations, and potential alternatives for a given approach. The origins, use, and potential of both classic and cutting-edge methods are considered. Examples and readings are aimed at both clinical/biologic and social/behavioral track students.

PUBH 8377 Seminar: Chronic Disease and Behavioral Epidemiology
S-N only, 1 credit(s), max credits 2; prereq Epi grad major or instr consent ;
Instructor: Harlow,Bernard Leslie
Description: This course offers an intimate recapitulation of the weekly seminar of the Division of Epidemiology and Community Health. In the hour immediately following the seminar, the class meets with the seminar presenter and course instructors for an in-depth examination of the topic presented. Classroom activities include review and clarification of the seminar material, connection of this material to other areas of epidemiology and public health, and open-ended questions and answers with the students.

PUBH 8400 Topics: Biostatistics

0.5-4 credit(s), max credits 20, 20 completions allowed;
Instructor: Grambsch,Patricia L
Description: Student may contact the instructor or department for information.

PUBH 8400 Topics: Biostatistics

0.5-4 credit(s), max credits 20, 20 completions allowed;
Instructor: Wu,Baolin
Description: Student may contact the instructor or department for information.

PUBH 8432 Probability Models for Biostatistics

3 credit(s); prereq [7450, 7407, Stat 5102, [advanced biostatistics or statistics] major] or instr consent ;
Instructor: Basu,Saonli
Description: Student may contact the instructor or department for information.

PUBH 8445 Statistics for Human Genetics and Molecular Biology

3 credit(s); prereq [[Stat 8101, Stat 8102] or equiv], PhD student] or instr consent ; some background with molecular biology desirable;
Instructor: Reilly,Cavan Sheerin
Description: Student may contact the instructor or department for information.

PUBH 8482 Sequential Analysis

3 credit(s); prereq [7450, 8432, Stat 5102, [advanced biostatistics or statistics] major] or instr consent ;
Instructor: Grambsch,Patricia L
Description: Student may contact the instructor or department for information.

PUBH 8494 Directed Research: Biostatistics

S-N only, 1-4 credit(s), max credits 4, 4 completions allowed; prereq instr consent ;
Instructor: Pan,Wei
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; prereq instr consent ;
Instructor: Banerjee,Sudipto
Description: Student may contact the instructor or department for information.

PUBH 8801 Health Services Policy Analysis: Theory

3 credit(s); prereq [Grad or professional school] student or instr consent;
Instructor: Moscovice,Ira S
Description: Student may contact the instructor or department for information.

PUBH 8810 Research Studies in Health Care

3 credit(s), max credits 6; prereq [Grad or professional school] student or instr consent;
Instructor: Rockwood,Todd H
Description: Student may contact the instructor or department for information.

PUBH 8811 Research Methods in Health Care

3 credit(s); prereq [8810, [grad or professional school] student] or instr consent;
Instructor: Dowd,Bryan E
Description: Student may contact the instructor or department for information.

PUBH 8831 Writing for Research

OPT No Aud, 2 credit(s); prereq 8830;
Instructor: Kane,Robert L
Description: Student may contact the instructor or department for information.

PUBH 8893 Directed Study: Health Services Research, Policy, and Administration

1-3 credit(s), max credits 3, 3 completions allowed; prereq HSRPA grad student, instr consent;
Instructor: Virnig,Beth 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; prereq HSRPA grad student, instr consent;
Instructor: Town,Robert James
Description: Student may contact the instructor or department for information.

Radiology

*2-300 Fairview University Medical Center
(Box 292)*

RAD 120 X-Ray Conference

0 credit(s);
Instructor: Dietz Jr,Charles Albert
Description: Student may contact the instructor or department for information.

RAD 121 Medical Roentgenologic Conference

0 credit(s);
Instructor: Dietz Jr,Charles Albert
Description: Student may contact the instructor or department for information.

RAD 123 Surgical Roentgenologic Conference

0 credit(s);
Instructor: Dietz Jr,Charles Albert
Description: Student may contact the instructor or department for information.

RAD 124 Neurosurgical-Roentgenologic Conference

0 credit(s);
Instructor: Truwit MD,Charles L
Description: Student may contact the instructor or department for information.

RAD 125 Cardiovascular Roentgenologic Conference

0 credit(s);
Instructor: Hunter,David W
Description: The lecture is a review of the history of the development of x-rays and an overview of medical imaging in today's practice.
Style: 100% Lecture.
Grading: No information from this lecture will be utilized for any test or grading purposes--although it should enhance their understanding of modern medical diagnosis

RAD 126 Roentgenologic Conference on Chest Diseases

0 credit(s);
Instructor: Juodis,Edward A
Description: Student may contact the instructor or department for information.

RAD 220 Nuclear Medicine: Clinical Conference

0 credit(s);
Instructor: Anderson,Quentin N
Description: Student may contact the instructor or department for information.

RAD 8200 Nuclear Medicine

1-15 credit(s), max credits 15, 1 completion allowed;
Instructor: Anderson,Quentin N
Description: Student may contact the instructor or department for information.

RAD 8210 Fundamentals of Nuclear Medicine**1 credit(s); prereq 1st-yr resident;****Instructor:** Anderson, Quentin N**Description:** Student may contact the instructor or department for information.**RAD 8250 Research: Nuclear Medicine****1-15 credit(s), max credits 15, 1 completion allowed;****Instructor:** Anderson, Quentin N**Description:** Student may contact the instructor or department for information.

Recreation Resource Management

115 Green Hall

RRM 1001 Orientation and Information Systems**A-F only, 1 credit(s);****Instructor:** Burk, Thomas Edward

Description: This course provides orientation and planning for students entering the Forest Resources (FR) and Recreation Resources Management (RRM) majors. During this semester students will be introduced to key issues in their fields of study. Description of careers, career planning (choice of major tracks, internships, summer experience, mentoring), academic advising and engagement with alumni contacts are major components of the course. Introduction to professional skill building includes information technology tools in the workplace and access to library and research tools. At the end of this course students should know the kind of course work needed for their degree choice as well as the timing of when to take courses to successfully complete their undergraduate degree program. Students should know what the student learning centers (SLC) and SMART commons are and how to use them. In addition students should be able to: a) write a cover letter and develop a resume targeting a specific job of interest to them, b) know how to conduct a job search and prepare for a job interview, c) find an internship of interest using resources at the St. Paul Campus Career Center, d) find and apply for study abroad opportunities, e) understand how to use the campus libraries to access information, f) have an appreciation for and obtain some exposure to the importance of geospatial data to their field of study, g) manipulate data in an EXCEL spreadsheet, and h) assess their desire to continue their education beyond the baccalaureate level.

RRM 1101 Recreation and the Quality of Life**3 credit(s);****Instructor:** Schneider, Ingrid Eleanore**Description:** Student may contact the instructor or department for information.**RRM 3101 Nature and Heritage Based Tourism****A-F only, 3 credit(s); Credit will not be granted if credit has been received for: RRM 5101;****Instructor:** Messer, Cynthia Cosdon

Description: This course is designed to familiarize you with the basic concept of resource based tourism (nature and cultural) and then develop the expertise to plan and evaluate sustainable tourism operations. COURSE OBJECTIVES: 1. Differentiate and appreciate the complexities involved with defining and developing nature, eco, cultural & `sustainable tourism.? 2. Identify specific social, economic, and environmental impacts associated with resource based tourism and methods to minimize the negative and maximize the positive. 3. Explain domestic and international case studies of resource based tourism. 4. Critically evaluate resource based tourism services and effective management and planning. 5. Create a business plan for nature/culture based tourism operations that emphasize sustainability.

Grading: Course grade is based on points earned on exams, short analysis papers, final project and participation.**Exam Format:** exams are a combination of essay and short answer**RRM 3480 Topics in Recreation Resource Management: Festival & Event Management****3 credit(s), max credits 6, 6 completions allowed;****Instructor:** Gustafson, Kent E**Description:** Student may contact the instructor or department for information.**RRM 4293 Directed Study****1-5 credit(s), max credits 12, 12 completions allowed; prereq instr consent;****Instructor:** Schneider, Ingrid Eleanore**Description:** Students select/conduct a study of or project on a topic of personal interest in consultation with faculty member. Documented by initial proposal and reports of accomplishment.**RRM 4293 Directed Study****1-5 credit(s), max credits 12, 12 completions allowed; prereq instr consent;****Instructor:** Messer, Cynthia Cosdon**Description:** Students select/conduct a study of or project on a topic of personal interest in consultation with faculty member. Documented by initial proposal and reports of accomplishment.**RRM 5101 Nature and Heritage Based Tourism****A-F only, 3 credit(s); prereq Grad student or instr consent ;****Credit will not be granted if credit has been received for: RRM 3101;****Instructor:** Messer, Cynthia Cosdon

Description: This course is designed to familiarize you with the basic concept of resource based tourism (nature and cultural) and then develop the expertise to plan and evaluate sustainable tourism operations. COURSE OBJECTIVES: 1. Differentiate and appreciate the complexities involved with defining and developing nature, eco, cultural & `sustainable tourism.? 2. Identify specific social, economic, and environmental impacts associated with resource based tourism and methods to minimize the negative and maximize the positive. 3. Explain domestic and international case studies of resource based tourism. 4. Critically evaluate resource based tourism services and effective management and planning. 5. Create a business plan for nature/culture based tourism operations that emphasize sustainability.

Grading: Course grade is based on points earned on exams, short analysis papers, final project and participation.**Exam Format:** exams are a combination of essay and short answer

Recreation, Park, and Leisure Studies

220 Cooke Hall

REC 1501 Orientation to Leisure and Recreation**3 credit(s);****Instructor:** Magnuson, Connie

Description: This introduction to the field of Recreation and Leisure Services will examine the history and development of the recreation movement, and explore the role that recreation plays in our lives and the impact on our quality of lives as individuals and as a society. As this is a very diverse field with a vast number of career opportunities, we will take a hands-on, experiential approach which will include exposure to several different types of programs through field trips, service learning and guest speakers.

REC 3281 Research and Evaluation in Recreation, Park, and Leisure Studies**A-F only, 4 credit(s); prereq 1501 or instr consent;****Instructor:** Brown, Tony Kevin**Description:** Basic techniques; emphasis on social research and evaluation methodology; survey of present status of recreation and park research and evaluation.

REC 3541W Recreation Programming

A-F only, 3 credit(s); prereq 1501 or instr consent, Rec major; Meets CLE req of Writing Intensive;

Instructor: Miller,Susie

Description: The emphasis of this course is on the program planning process from creating the idea through the evaluation. Various formats such as leisure learning, field trips and special event participation are highlighted as well as developing the skills needed to produce professional programs for diverse populations. This is a hands-on class and skills acquired and project development learned can be used in a wide variety of recreation settings.

REC 3796 Senior Internship in Recreation, Park, and Leisure Studies

S-N only, 9 credit(s); prereq Rec major, completion of most core courses, sr, instr consent ;

Instructor: Magnuson,Connie

Description: Supervised field experience for pre-professional students in selected agencies.

REC 3993 Directed Study in Recreation, Park, and Leisure Studies

A-F only, 1-9 credit(s), max credits 9, 9 completions allowed; prereq Rec major, instr consent ;

Instructor: Magnuson,Connie

Description: Scholarly projects (e.g., library or field research) or demonstration projects.

REC 3993 Directed Study in Recreation, Park, and Leisure Studies

A-F only, 1-9 credit(s), max credits 9, 9 completions allowed; prereq Rec major, instr consent ;

Instructor: Kane,Mary Jo

Description: Scholarly projects (e.g., library or field research) or demonstration projects.

REC 3993 Directed Study in Recreation, Park, and Leisure Studies

A-F only, 1-9 credit(s), max credits 9, 9 completions allowed; prereq Rec major, instr consent ;

Instructor: Ross,Stephen D

Description: Scholarly projects (e.g., library or field research) or demonstration projects.

REC 3993 Directed Study in Recreation, Park, and Leisure Studies

A-F only, 1-9 credit(s), max credits 9, 9 completions allowed; prereq Rec major, instr consent ;

Instructor: Kihl,Lisa A

Description: Scholarly projects (e.g., library or field research) or demonstration projects.

REC 5111 Sports Facilities

A-F only, 3 credit(s); prereq Kin or Rec major or instr consent ;

Instructor: Turman PhD,James C

Description: An overview of sports facilities including the planning, development, design, funding, financing, and construction of such facilities with emphasis on major indoor multipurpose facilities for recreational sports, physical education, and intercollegiate athletics on the college campus and an introduction to public/private arenas and stadiums. The class will tour selected on-campus kinesiology, athletic, and recreational facilities. Students will be assigned a group sports facilities project and present their concepts and plans to the class. Other topic areas may include, operations management, marketing, advertising, public relations, and risk management.

Style: 35% Lecture, 20% Discussion, 15% Small Group Activities, 10% Student Presentation, 15% Field Trips, 5% Guest Speakers.

Grading: 17% final exam, 35% reports/papers, 25% special projects, 5% quizzes, 13% written homework, 5% attendance.

Note: attendance also includes in-class presentation and participation.

Exam Format: multiple choice, fill-in, matching, and essay

REC 5271 Community Leisure Services for Persons with Disabilities

A-F only, 3 credit(s); prereq 1501, Rec major or instr consent;

Instructor: Magnuson,Connie

Description: This course explores services that have historically been provided for persons with disabilities and how that has drastically changed over the past few decades. We will evaluate how individuals with disabilities are portrayed in popular film and how that influences our perceptions and expectations. We learn about "people first" language, etiquette, and how to interact with a person with a disability. This is done first in the class room and then with a hands-on learning experience in the community. It is designed to be an informative course that will challenge your perceptions and give you a better understanding of working with people of all abilities.

REC 5311 Programming Outdoor and Environmental Education

A-F only, 3 credit(s);

Instructor: Magnuson,Connie

Description: This exciting class will focus on understanding and implementing the methods used for developing programs in outdoor recreation and education. The class will be hands-on and project based. Students will be working in cooperation with a nationally recognized agency in outdoor recreation programs and travel to develop a proposal to be "pitched" to the agency for actual implementation. Class will meet on site at the agency for the majority of the class and have access to agency resources and professional help while developing their outdoor trip proposal. Additional field trips to take part in other outdoor based and environmental education activities will also be part of the experience.

Style: 20% Discussion, 10% Small Group Activities, 30% Demonstration, 10% Field Trips, 20% Guest Speakers.

Grading: 30% reports/papers, 50% special projects, 5% reflection paper, 15% class participation.

REC 5421 Sport Finance

A-F only, 3 credit(s); prereq Grad student or instr consent ;

Instructor: Ross,Stephen D

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.

REC 5461 Foundations of Sport Management

A-F only, 3 credit(s); prereq Kin or rec or postbac or grad student or instr consent ;

Instructor: Esten,Phil L

Description: Theories/techniques in administration/management of sport enterprises. Organizational theory/policy, practical examples of sport management skills/strategies.

REC 5511 Women in Sport and Leisure

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: KIN 5511;

Instructor: Buysse,Jo Ann

Description: The primary purpose of this course is to provide students with an opportunity to critically examine, understand and appreciate women's involvement in-and contributions to-sport and physical activity from both an historical and contemporary perspective. Students will be expected to analyze, critique, and evaluate a wide range of historical, cultural, economic and socio-psychological issues that have shaped the nature and scope of women's participation in sport, physical activity and leisure. Utilizing feminist perspectives, particular attention will be given to the various ways in which females (and their bodies) are often viewed as fundamentally

different-physically, socially and psychologically-from their male counterparts. Much of this analysis will take place against the backdrop of highly organized, competitive sports such as intercollegiate athletics. In addition, we will see how it is impossible to separate women's and men's sports from the broader societal roles of women and men in general. Finally, issues that address race/ethnicity, social class and sexual orientation, and how those issues influence women's and men's sports, will also be emphasized throughout the semester. This course will be web enhanced through webctvista.

Style: 50% Lecture, 40% Discussion.

Grading: 25% mid exam, 45% reports/papers, 10% in-class presentation, 20% class participation.

Exam Format: essay

Instructor: Kihl,Lisa A

Description: Independent study under tutorial guidance by faculty member on particular topic(s) not covered in regular coursework.

REC 5995 Problems in Recreation, Park, and Leisure Studies
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq [REC MEd or grad student], instr consent ;

Instructor: Magnuson,Connie

Description: Independent study of leisure service programs, systems, facilities, or policies. Focuses on conduct of recreation programs. Scholarly projects (e.g., library or field research) or demonstration projects.

REC 5995 Problems in Recreation, Park, and Leisure Studies
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq [REC MEd or grad student], instr consent ;

Instructor: Allison JD,Rayla

Description: Independent study of leisure service programs, systems, facilities, or policies. Focuses on conduct of recreation programs. Scholarly projects (e.g., library or field research) or demonstration projects.

REC 5995 Problems in Recreation, Park, and Leisure Studies
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq [REC MEd or grad student], instr consent ;

Instructor: Kane,Mary Jo

Description: Independent study of leisure service programs, systems, facilities, or policies. Focuses on conduct of recreation programs. Scholarly projects (e.g., library or field research) or demonstration projects.

REC 5995 Problems in Recreation, Park, and Leisure Studies
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq [REC MEd or grad student], instr consent ;

Instructor: Ross,Stephen D

Description: Independent study of leisure service programs, systems, facilities, or policies. Focuses on conduct of recreation programs. Scholarly projects (e.g., library or field research) or demonstration projects.

REC 5995 Problems in Recreation, Park, and Leisure Studies
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq [REC MEd or grad student], instr consent ;

Instructor: Kihl,Lisa A

Description: Independent study of leisure service programs, systems, facilities, or policies. Focuses on conduct of recreation programs. Scholarly projects (e.g., library or field research) or demonstration projects.

REC 5995 Problems in Recreation, Park, and Leisure Studies
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq [REC MEd or grad student], instr consent ;

Instructor: Brownlee PhD,Eric A

Description: Independent study of leisure service programs, systems, facilities, or policies. Focuses on conduct of recreation programs. Scholarly projects (e.g., library or field research) or demonstration projects.

REC 6796 Practicum in Recreation, Park, and Leisure Studies
S-N only, 3-9 credit(s), max credits 9, 3 completions allowed;
prereq [Rec MEd or grad student], instr consent ;

Instructor: Buysse,Jo Ann

Description: Practical experiences in recreation under supervision of University faculty member and agency supervisor.

REC 6796 Practicum in Recreation, Park, and Leisure Studies
S-N only, 3-9 credit(s), max credits 9, 3 completions allowed;
prereq [Rec MEd or grad student], instr consent ;

Instructor: Allison JD,Rayla

Description: Supervised experiences in program operation, management, administration, and supervisory duties in therapeutic recreation, leisure services, or sport management.

REC 6796 Practicum in Recreation, Park, and Leisure Studies

REC 5631 Programming and Promotion in Sport

A-F only, 3 credit(s); prereq Kin or Rec grad student or instr consent ;

Instructor: Ross,Stephen D

Description: While sport promoters can be traced as far back as early 20th century boxing matches, sport marketing as a concept has just recently been credited with the sudden rise in industrial interest. Although the sport industry is still in it's early growth period, it has experienced extreme financial prosperity. Largely responsible for the increased popularity and revenue gain of the field is sport marketing. This course is designed to introduce marketing concepts as they apply to the sport industry. Topics such as consumer behavior, market research, the marketing mix and licensing will be covered through the use of interactive discussion and practical application.

REC 5801 Legal Aspects of Sport and Recreation

A-F only, 4 credit(s); prereq 3551 or 5461 or instr consent ;

Instructor: Allison JD,Rayla

Description: Legal issues related to recreation, park, and sport programs/facilities with public/private sectors.

REC 5981 Research Methodology in Kinesiology, Recreation, and Sport

A-F only, 3 credit(s); prereq MEd or grad student or instr consent; Credit will not be granted if credit has been received for: KIN 5981;

Instructor: Kihl,Lisa A

Description: Defines/reviews various types of research in exercise and sport science, physical education, and recreation studies. Qualitative research, field studies, and introspective research strategies as alternatives to traditional scientific paradigm.

REC 5992 Readings: Recreation

A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq REC major, instr consent REC major, instr consent ;

Instructor: Magnuson,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;
prereq REC major, instr consent REC major, instr consent ;

Instructor: Kane,Mary Jo

Description: Independent study under tutorial guidance by faculty member on particular topic(s) not covered in regular coursework.

REC 5992 Readings: Recreation

A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq REC major, instr consent REC major, instr consent ;

Instructor: Ross,Stephen D

Description: Independent study under tutorial guidance by faculty member on particular topic(s) not covered in regular coursework.

REC 5992 Readings: Recreation

A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq REC major, instr consent REC major, instr consent ;

S-N only, 3-9 credit(s), max credits 9, 3 completions allowed; prereq [Rec MEd or grad student], instr consent ;

Instructor: Kane,Mary Jo

Description: Supervised experiences in program operation, management, administration, and supervisory duties in therapeutic recreation, leisure services, or sport management.

REC 6796 Practicum in Recreation, Park, and Leisure Studies
S-N only, 3-9 credit(s), max credits 9, 3 completions allowed; prereq [Rec MEd or grad student], instr consent ;

Instructor: Ross,Stephen D

Description: Supervised experiences in program operation, management, administration, and supervisory duties in therapeutic recreation, leisure services, or sport management.

REC 6796 Practicum in Recreation, Park, and Leisure Studies
S-N only, 3-9 credit(s), max credits 9, 3 completions allowed; prereq [Rec MEd or grad student], instr consent ;

Instructor: Kihl,Lisa A

Description: Supervised experiences in program operation, management, administration, and supervisory duties in therapeutic recreation, leisure services, or sport management.

REC 6796 Practicum in Recreation, Park, and Leisure Studies
S-N only, 3-9 credit(s), max credits 9, 3 completions allowed; prereq [Rec MEd or grad student], instr consent ;

Instructor: Brownlee PhD,Eric A

Description: Practical experiences in recreation under supervision of University faculty member and agency supervisor.

REC 8995 Research Problems in Recreation, Park, and Leisure Studies

S-N only, 1-4 credit(s), max credits 9, 9 completions allowed;

prereq instr consent REC PhD student, instr consent ;

Instructor: Kane,Mary Jo

Description: Individual scholarly research.

REC 8995 Research Problems in Recreation, Park, and Leisure Studies

S-N only, 1-4 credit(s), max credits 9, 9 completions allowed;

prereq instr consent REC PhD student, instr consent ;

Instructor: Ross,Stephen D

Description: Individual scholarly research.

REC 8995 Research Problems in Recreation, Park, and Leisure Studies

S-N only, 1-4 credit(s), max credits 9, 9 completions allowed;

prereq instr consent REC PhD student, instr consent ;

Instructor: Kihl,Lisa A

Description: Individual scholarly research.

Rehabilitation Science

382 Children's Rehabilitation Center(Box 388 UMHC)

RSC 5135 Advanced Biomechanics I: Kinematics

A-F only, 3 credit(s); prereq instr consent ;

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; prereq

Rehabilitation science student or program approval;

Instructor: Patterson,Robert Patrick

Description: Student may contact the instructor or department for information.

RSC 5294 Independent Study in Rehabilitation Science

1-3 credit(s), max credits 3, 3 completions allowed; prereq

Rehabilitation science student or program approval;

Instructor: Carey,James Robert

Description: Student may contact the instructor or department for information.

RSC 5294 Independent Study in Rehabilitation Science

1-3 credit(s), max credits 3, 3 completions allowed; prereq

Rehabilitation science student or program approval;

Instructor: Schaber PhD,Patricia Louise

Description: Student may contact the instructor or department for information.

RSC 5294 Independent Study in Rehabilitation Science

1-3 credit(s), max credits 3, 3 completions allowed; prereq

Rehabilitation science student or program approval;

Instructor: Mathiowetz PhD,Virgil G

Description: Student may contact the instructor or department for information.

RSC 5294 Independent Study in Rehabilitation Science

1-3 credit(s), max credits 3, 3 completions allowed; prereq

Rehabilitation science student or program approval;

Instructor: Anderson,Kathleen

Description: Student may contact the instructor or department for information.

RSC 5294 Independent Study in Rehabilitation Science

1-3 credit(s), max credits 3, 3 completions allowed; prereq

Rehabilitation science student or program approval;

Instructor: 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; prereq

Rehabilitation science student or program approval;

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; prereq

Rehabilitation science student or program approval;

Instructor: Di Fabio,Richard P

Description: Student may contact the instructor or department for information.

RSC 5294 Independent Study in Rehabilitation Science

1-3 credit(s), max credits 3, 3 completions allowed; prereq

Rehabilitation science student or program approval;

Instructor: Stern PhD,Erica Beth

Description: Student may contact the instructor or department for information.

RSC 5294 Independent Study in Rehabilitation Science

1-3 credit(s), max credits 3, 3 completions allowed; prereq

Rehabilitation science student or program approval;

Instructor: Thompson PhD,LaDora V

Description: Student may contact the instructor or department for information.

RSC 5294 Independent Study in Rehabilitation Science

1-3 credit(s), max credits 3, 3 completions allowed; prereq

Rehabilitation science student or program approval;

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; prereq

Rehabilitation science student or program approval;

Instructor: Lowe,Dawn Annette

Description: Student may contact the instructor or department for information.

RSC 5294 Independent Study in Rehabilitation Science

1-3 credit(s), max credits 3, 3 completions allowed; prereq

- Rehabilitation science student or program approval;**
Instructor: Kukulka,Carl G
Description: Student may contact the instructor or department for information.
- RSC 5294 Independent Study in Rehabilitation Science**
1-3 credit(s), max credits 3, 3 completions allowed; prereq Rehabilitation science student or program approval;
Instructor: Nuckley,David J
Description: Student may contact the instructor or department for information.
- RSC 8100 Rehabilitation Science Seminar**
A-F only, 1 credit(s), max credits 6, 6 completions allowed; prereq Rehabilitation science student or program permission;
Instructor: Kukulka,Carl G
Description: Student may contact the instructor or department for information.
- RSC 8135 Advanced Kinesiology**
A-F only, 3 credit(s); prereq [Rehabilitation science student or program permission], instr consent;
Instructor: Ludewig,Paula M
Description: Student may contact the instructor or department for information.
- RSC 8170 Special Topics in Rehabilitation Science**
A-F only, 1 credit(s), max credits 3, 3 completions allowed; prereq [Rehabilitation science student or program permission], instr consent;
Instructor: Patterson,Robert Patrick
Description: Student may contact the instructor or department for information.
- RSC 8170 Special Topics in Rehabilitation Science**
A-F only, 1 credit(s), max credits 3, 3 completions allowed; prereq [Rehabilitation science student or program permission], instr consent;
Instructor: Carey,James Robert
Description: Student may contact the instructor or department for information.
- RSC 8170 Special Topics in Rehabilitation Science**
A-F only, 1 credit(s), max credits 3, 3 completions allowed; prereq [Rehabilitation science student or program permission], instr consent;
Instructor: Schaber PhD,Patricia Louise
Description: Student may contact the instructor or department for information.
- RSC 8170 Special Topics in Rehabilitation Science**
A-F only, 1 credit(s), max credits 3, 3 completions allowed; prereq [Rehabilitation science student or program permission], instr consent;
Instructor: Mathiowetz 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; prereq [Rehabilitation science student or program permission], instr consent;
Instructor: Anderson,Kathleen
Description: Student may contact the instructor or department for information.
- RSC 8170 Special Topics in Rehabilitation Science**
A-F only, 1 credit(s), max credits 3, 3 completions allowed; prereq [Rehabilitation science student or program permission], instr consent;
Instructor: 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; prereq [Rehabilitation science student or program permission], instr consent;
Instructor: Kimberley,PT, PhD,Teresa Jacobson
Description: Student may contact the instructor or department for information.
- RSC 8170 Special Topics in Rehabilitation Science**
A-F only, 1 credit(s), max credits 3, 3 completions allowed; prereq [Rehabilitation science student or program permission], instr consent;
Instructor: Adamczak,Rich Lee
Description: Student may contact the instructor or department for information.
- RSC 8170 Special Topics in Rehabilitation Science**
A-F only, 1 credit(s), max credits 3, 3 completions allowed; prereq [Rehabilitation science student or program permission], instr consent;
Instructor: Di Fabio,Richard P
Description: Student may contact the instructor or department for information.
- RSC 8170 Special Topics in Rehabilitation Science**
A-F only, 1 credit(s), max credits 3, 3 completions allowed; prereq [Rehabilitation science student or program permission], instr consent;
Instructor: Stern PhD,Erica Beth
Description: Student may contact the instructor or department for information.
- RSC 8170 Special Topics in Rehabilitation Science**
A-F only, 1 credit(s), max credits 3, 3 completions allowed; prereq [Rehabilitation science student or program permission], instr consent;
Instructor: Thompson PhD,LaDora V
Description: Student may contact the instructor or department for information.
- RSC 8170 Special Topics in Rehabilitation Science**
A-F only, 1 credit(s), max credits 3, 3 completions allowed; prereq [Rehabilitation science student or program permission], instr consent;
Instructor: Ludewig,Paula M
Description: Student may contact the instructor or department for information.
- RSC 8170 Special Topics in Rehabilitation Science**
A-F only, 1 credit(s), max credits 3, 3 completions allowed; prereq [Rehabilitation science student or program permission], instr consent;
Instructor: 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; prereq [Rehabilitation science student or program permission], instr consent;
Instructor: Kukulka,Carl G
Description: Student may contact the instructor or department for information.
- RSC 8170 Special Topics in Rehabilitation Science**
A-F only, 1 credit(s), max credits 3, 3 completions allowed; prereq [Rehabilitation science student or program permission], instr consent;
Instructor: Nuckley,David J
Description: Student may contact the instructor or department for information.
- RSC 8185 Problems in Rehabilitation Science**
1-3 credit(s), max credits 3, 3 completions allowed; prereq [Rehabilitation science student or program permission],

- instr consent;**
Instructor: Patterson,Robert Patrick
Description: Student may contact the instructor or department for information.
- RSC 8185 Problems in Rehabilitation Science**
1-3 credit(s), max credits 3, 3 completions allowed; prereq [Rehabilitation science student or program permission], instr consent;
Instructor: 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; prereq [Rehabilitation science student or program permission], instr consent;
Instructor: Schaber PhD,Patricia Louise
Description: Student may contact the instructor or department for information.
- RSC 8185 Problems in Rehabilitation Science**
1-3 credit(s), max credits 3, 3 completions allowed; prereq [Rehabilitation science student or program permission], instr consent;
Instructor: 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; prereq [Rehabilitation science student or program permission], instr consent;
Instructor: Anderson,Kathleen
Description: Student may contact the instructor or department for information.
- RSC 8185 Problems in Rehabilitation Science**
1-3 credit(s), max credits 3, 3 completions allowed; prereq [Rehabilitation science student or program permission], instr consent;
Instructor: 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; prereq [Rehabilitation science student or program permission], instr consent;
Instructor: Kimberley,PT, PhD,Teresa Jacobson
Description: Student may contact the instructor or department for information.
- RSC 8185 Problems in Rehabilitation Science**
1-3 credit(s), max credits 3, 3 completions allowed; prereq [Rehabilitation science student or program permission], instr consent;
Instructor: Di Fabio,Richard P
Description: Student may contact the instructor or department for information.
- RSC 8185 Problems in Rehabilitation Science**
1-3 credit(s), max credits 3, 3 completions allowed; prereq [Rehabilitation science student or program permission], instr consent;
Instructor: Stern PhD,Erica Beth
Description: Student may contact the instructor or department for information.
- RSC 8185 Problems in Rehabilitation Science**
1-3 credit(s), max credits 3, 3 completions allowed; prereq [Rehabilitation science student or program permission], instr consent;
Instructor: Thompson PhD,LaDora V
Description: Student may contact the instructor or department for information.
- for information.
- RSC 8185 Problems in Rehabilitation Science**
1-3 credit(s), max credits 3, 3 completions allowed; prereq [Rehabilitation science student or program permission], instr consent;
Instructor: Ludewig,Paula M
Description: Student may contact the instructor or department for information.
- RSC 8185 Problems in Rehabilitation Science**
1-3 credit(s), max credits 3, 3 completions allowed; prereq [Rehabilitation science student or program permission], instr consent;
Instructor: 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; prereq [Rehabilitation science student or program permission], instr consent;
Instructor: Kukulka,Carl G
Description: Student may contact the instructor or department for information.
- RSC 8185 Problems in Rehabilitation Science**
1-3 credit(s), max credits 3, 3 completions allowed; prereq [Rehabilitation science student or program permission], instr consent;
Instructor: Nuckley,David J
Description: Student may contact the instructor or department for information.
- RSC 8188 Teaching Practicum**
A-F only, 1-5 credit(s), max credits 5, 1 completion allowed; prereq [Rehabilitation science student or program permission], instr consent ;
Instructor: Patterson,Robert Patrick
Description: Student may contact the instructor or department for information.
- RSC 8188 Teaching Practicum**
A-F only, 1-5 credit(s), max credits 5, 1 completion allowed; prereq [Rehabilitation science student or program permission], instr consent ;
Instructor: 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, 1 completion allowed; prereq [Rehabilitation science student or program permission], instr consent ;
Instructor: Schaber PhD,Patricia Louise
Description: Student may contact the instructor or department for information.
- RSC 8188 Teaching Practicum**
A-F only, 1-5 credit(s), max credits 5, 1 completion allowed; prereq [Rehabilitation science student or program permission], instr consent ;
Instructor: Mathiowetz PhD,Virgil G
Description: Student may contact the instructor or department for information.
- RSC 8188 Teaching Practicum**
A-F only, 1-5 credit(s), max credits 5, 1 completion allowed; prereq [Rehabilitation science student or program permission], instr consent ;
Instructor: Kimberley,PT, PhD,Teresa Jacobson
Description: Student may contact the instructor or department for information.
- RSC 8188 Teaching Practicum**

A-F only, 1-5 credit(s), max credits 5, 1 completion allowed;
prereq [Rehabilitation science student or program permission], instr consent ;
Instructor: Di Fabio,Richard P
Description: Student may contact the instructor or department for information.

RSC 8188 Teaching Practicum

A-F only, 1-5 credit(s), max credits 5, 1 completion allowed;
prereq [Rehabilitation science student or program permission], instr consent ;
Instructor: Stern PhD, Erica Beth
Description: Student may contact the instructor or department for information.

RSC 8188 Teaching Practicum

A-F only, 1-5 credit(s), max credits 5, 1 completion allowed;
prereq [Rehabilitation science student or program permission], instr consent ;
Instructor: Thompson PhD, LaDora V
Description: Student may contact the instructor or department for information.

RSC 8188 Teaching Practicum

A-F only, 1-5 credit(s), max credits 5, 1 completion allowed;
prereq [Rehabilitation science student or program permission], instr consent ;
Instructor: Ludewig, Paula M
Description: Student may contact the instructor or department for information.

RSC 8188 Teaching Practicum

A-F only, 1-5 credit(s), max credits 5, 1 completion allowed;
prereq [Rehabilitation science student or program permission], instr consent ;
Instructor: Lowe, Dawn Annette
Description: Student may contact the instructor or department for information.

RSC 8188 Teaching Practicum

A-F only, 1-5 credit(s), max credits 5, 1 completion allowed;
prereq [Rehabilitation science student or program permission], instr consent ;
Instructor: Kukulka, Carl G
Description: Student may contact the instructor or department for information.

RSC 8188 Teaching Practicum

A-F only, 1-5 credit(s), max credits 5, 1 completion allowed;
prereq [Rehabilitation science student or program permission], instr consent ;
Instructor: Nuckley, David J
Description: Student may contact the instructor or department for information.

RSC 8192 Research Design in Rehabilitation Science

A-F only, 4 credit(s); prereq instr consent ;
Instructor: Di Fabio, Richard P
Description: Student may contact the instructor or department for information.

Religious Studies

245 Nicholson Hall

RELS 1002 Introduction to the Study of Religion

3 credit(s);
Instructor: Kilde, Jeanne Halgren
Description: Just what is ?religion?? Is it fundamentally belief ? a system of thought? Is it experience? Or knowledge obtained through experience? Is it practice ? the repeated rituals that engage the body and the senses in conviction? How should we study religion? Do we focus on the supernatural, the Divine? Or

do we focus on people and actions? Can we compare experiences, or beliefs, or practices across religions? These are just a few of the many questions that will be raised in this course, which is designed to expose students to some of the fundamental issues that inform the study of religion and familiarize them with the vocabulary and analytical tools used to describe, illuminate, and interpret religious activities and events. Throughout the course, we will examine several specific practices as sample cases, thus introducing students to the diversity of global religious activity. Among the cases will be the Muslim Hadj; the Catholic devotion surrounding the ?holy dirt? at Chimayo, NM; a Hindu pilgrimage in Northern India; Objway philosophy of the 19th century; and Buddhist worship practice.
Style: 60% Lecture, 15% Film/Video, 15% Discussion, 10% Guest Speakers.
Grading: 60% mid exam, 20% final exam, 10% reports/papers, 10% class participation.

RELS 1034 Introduction to Jewish History and Civilization

3 credit(s); prereq credit will not be granted if credit already received for: RelA 1034, 3034, JwSt 1034,3034, RelS 3034;
Meets CLE req of Historical Perspective Core;
Instructor: Jassen, Alex

Description: The course provides a general introduction to Judaism in its many ancient and modern expressions. Special attention is paid to the social, literary, historical, and cultural influences that have helped shape the varieties of Jewish traditions. The central ideas and motifs of Judaism to be addressed include: God, scripture and tradition, covenant, law, messianism and mysticism, Jewish identity, ritual and worship, political life, Jewish ethics, Jewish nationalism. Each unit compares these various aspects of Judaism in diverse times and places. Students engage with these topics through reading a wide selection of primary texts in translation. The goal of the course is to provide students with an overview of the history of Judaism, engagement with the central texts of Judaism, and a basic knowledge of Jewish religious customs. Students gain an understanding of the ancient, medieval, and modern expressions of Judaism, along with a sensitivity to the points of contact and divergence among these traditions. Full syllabus and further information available at: http://www.tc.umn.edu/~jassen/index_files/Page1222.htm
Style: 80% Lecture, 20% Discussion. We will also draw upon other modes learning such as film, music, and material culture.
Grading: 25% mid exam, 30% final exam, 35% reports/papers, 10% class participation.

Exam Format: Identifications, Short and Long Essay

RELS 3034 Introduction to Jewish History and Civilization

3 credit(s); prereq credit will not be granted if credit already received for: RelA 1034, 3034, JwSt 1034, 3034, RelS 3034;
Meets CLE req of Historical Perspective Core;
Instructor: Jassen, Alex

Description: The course provides a general introduction to Judaism in its many ancient and modern expressions. Special attention is paid to the social, literary, historical, and cultural influences that have helped shape the varieties of Jewish traditions. The central ideas and motifs of Judaism to be addressed include: God, scripture and tradition, covenant, law, messianism and mysticism, Jewish identity, ritual and worship, political life, Jewish ethics, Jewish nationalism. Each unit compares these various aspects of Judaism in diverse times and places. Students engage with these topics through reading a wide selection of primary texts in translation. The goal of the course is to provide students with an overview of the history of Judaism, engagement with the central texts of Judaism, and a basic knowledge of Jewish religious customs. Students gain an understanding of the ancient, medieval, and modern expressions of Judaism, along with a sensitivity to the points of contact and divergence among these traditions. Full syllabus and further information available at: http://www.tc.umn.edu/~jassen/index_files/Page1222.htm
Style: 80% Lecture, 20% Discussion. We will also draw upon other modes of learning such as film, music, and material

culture.

Grading: 25% mid exam, 30% final exam, 35% reports/papers, 10% class participation.

Exam Format: Identifications, Short and Long Essay

RELS 3070 Topics in Religious Studies: Muslims & Jews in Early Modern English Lit

A-F only, 3 credit(s);

Instructor: Matar, Nabil I

Description: Student may contact the instructor or department for information.

RELS 3072 The New Testament

3 credit(s); prereq credit will not be granted if credit already received for: ReIA 3072, ReIA 5072, ReIS 5072; Credit will not be granted if credit has been received for: CNES 3072; Meets CLE req of Historical Perspective Core;

Instructor: Roetzel, Calvin J

Description: Was Jesus a Christian or a Jewish prophet? Did later interpreters distort the simple religion of this Galilean charismatic teacher who spoke of the essence of a true religion? Was Paul an anti-feminist or a woman's liberationist? Was he an anti-Semite or a Jew on the margins and one of the most creative thinkers of the early Jesus movement? How did the early church select its scriptures for a New Testament? And why and how were only four gospels selected and many others excluded? These and other questions we will pose in this historical study of the New Testament in its Graeco-Roman and Jewish context. The course will emphasize the nature and variety of religious expression in the early Church; it will treat the gospels in their historical setting, and it will study selected heated discourses between Paul and his churches in a treatment of his letters as conversations. It will also deal with some early interpreters of Paul in the New Testament, and will consider the message of Revelation for a persecuted church. The course will finally sample texts from the Gnostic Gospels of the second century.

Style: 75% Lecture, 25% Discussion.

Grading: 20% final exam, 10% special projects, 70% quizzes.

Exam Format: 30% multiple choice, 70% essay

RELS 3079 Muslims and Jews: Conflict and Coexistence in the Middle East and North Africa since 1700

3 credit(s);

Instructor: Schroeter, Daniel J

Description: Jews and Muslim have coexisted and influenced each other over many centuries, especially in the Middle East and North Africa. While Muslim-Jewish relations in the 20th century have often been characterized exclusively by bitter enmity, in earlier centuries the interactions of Muslims and Jews have been characterized as a symbiotic relationship by some and a state of perpetual tension and conflict by others. This course will examine the diversity of social and cultural interactions between Muslims and Jews and between Islam and Judaism since 1700. It seeks to answer the question: what enabled the two religious communities to peacefully coexist and what were the causes of conflict? Why is the history of Muslim-Jewish relations such a contested issue today?

RELS 3321 American Indian Philosophies

4 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core;

Instructor: Ghebregzi, Alex Anthony

Description: The purpose of this course is to introduce students to the philosophical thought and spiritual beliefs of native peoples of North America. Students will examine a broad spectrum of issues which influence the worldview of native people on this continent, including European contact and thought. Students may find some of the issues to be controversial and personally challenging, however, a thorough discussion of the impact of European influences is important to understanding native people's resistance and survival. Finally, students will also explore the ways in which native philosophy and spiritual practices shape native life experience in a society viewed by many native people as being at odds with their beliefs.

Style: 60% Lecture, 20% Discussion. Group work

Grading: 33% mid exam, 33% final exam, 17% reports/papers, 17% class participation.

Exam Format: The exams will be a take home essay.

RELS 3371 Buddhism

3 credit(s); Credit will not be granted if credit has been received for: ALL 3672; Meets CLE req of International Perspective Theme; meets CLE req of Other Humanities Core;

Instructor: Junghare, Indira Y

Description: Student may contact the instructor or department for information.

RELS 3521W History of the Holocaust

3 credit(s); Credit will not be granted if credit has been received for: HIST 3727W; Meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive;

Instructor: Snyder, Edward N

Description: Student may contact the instructor or department for information.

RELS 3535 Death and the Afterlife in the Ancient World

3 credit(s); prereq credit will not be granted if credit already received for: ReIA 3535, ReIA 5535, CNES 3535, CNES 5535; Credit will not be granted if credit has been received for: CNES 3535; Meets CLE req of Other Humanities Core;

Instructor: Sellew, Philip

Description: In this class we study attitudes, beliefs, and behaviors regarding death and the afterlife found in the cultures of the ancient Mediterranean and Near East. Our sources include literature, funerary art and epitaphs, as well as archaeological evidence for burial practices and care of the dead. Our approach is both historical and comparative. With its focus on a matter of central concern to human societies, this course meets the Liberal Education core requirement in Humanistic Studies. One main objective is to have us confront and explore a diverse set of responses to death and beliefs about the afterlife as found in ancient societies that despite their influence may be more or less familiar to us. Art, literature, and mortuary practices alike help class participants query our own expectations and attitudes. This approach enables us to consider our experiences and expectations of death and what may follow through a critical, analytical framework of historical and cultural comparison and not merely as personal response. The themes of mortality and care of the dead carry through all the topics, arranged more or less chronologically and geographically to consider Egypt, Mesopotamia, Biblical Israel, Greece, Rome, early Judaism, and ancient Christianity. We pay attention to the historical circumstances of each culture and the specific interpretive strategies historians need to understand and interpret its characteristic features in light of our own. The fourth discussion essay or the final research paper may treat beliefs or practices surrounding death in a contemporary context that a student would like to analyze from the perspective of the course. The course will be web enhanced.

Style: 70% Lecture, 30% Discussion.

Grading: 25% mid exam, 25% reports/papers, 40% reflection paper, 10% class participation.

Exam Format: midterm - short essays

RELS 3541 Age of St. Augustine of Hippo

3 credit(s); prereq credit will not be granted if credit already received for: Clas 1024/3024; Credit will not be granted if credit has been received for: CLAS 1024; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspective Theme;

Instructor: Nicholson, Oliver

Description: Student may contact the instructor or department for information.

RELS 3622 'Sinners, Saints, and Savages': Religion in Early America

3 credit(s); prereq Non-fr or instr consent ;

Instructor: Fischer, Kirsten

Description: The United States is home to an astonishing array of religious beliefs and institutions. While mutual toleration is a widely-held ideal, it hasn't always been this way. This course

investigates the religious pluralism of early America and explores how people of differing faiths perceived, reacted to, and changed each other before 1800. We will investigate Native American, Euro-American, and African American cosmologies; culturally divergent ideas about moral conduct; the religious motivations and justifications behind efforts to reform (or transform) society; the relationship between religious worldviews and ideas about racial difference, gender relations, class structures, and relations of authority. We will also examine how religious faiths and institutions could serve as vehicles of oppression or as means of liberation in the contexts of colonization, enslavement, and revolution. In addition to offering a comparative and multi-cultural analysis of religion in early America, the course also investigates religious disagreements among Anglo-Americans, whose diverse views about religious authority and the place of religion in American politics were by no means resolved after the American Revolution. Distinct ideas about the character and demands of the Supreme Being and the nature and responsibilities of human beings resulted in disagreements over the proper relations between women and men, whites and blacks, ordained ministers and inspired laypersons, and the church and the state. By the end of the course, students will understand religion as one of the important factors that shaped society and social conflicts in early America. Students will find that the religious diversity of modern-day America had antecedents in the colonial and revolutionary periods, while freedom of conscience evolved only slowly. By learning how the intense, often coercive, and sometimes brutal conflicts over religion resulted in an eventual truce of pluralism, students will understand how freedom of conscience in this country has been hard-won rather than simply assumed or easily assured.

Style: 15% Lecture, 5% Film/Video, 60% Discussion, 20% Small Group Activities.

Grading: 70% reports/papers, 10% attendance, 20% class participation.

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 Perspective Core;

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 3715 History of the Crusades

3 credit(s); Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme;

Instructor: Lower, Michael T

Description: Student may contact the instructor or department for information.

RELS 3801 Philosophy of Religion

3 credit(s);

Instructor: Hopkins, Jasper

Description: Student may contact the instructor or department for information.

RELS 5072 The New Testament

3 credit(s); prereq credit will not be granted if credit already received for: ReIA 3072, ReIA 5072, ReIS 3072, CNES 3072, CNES 5072;

Instructor: Roetzel, Calvin J

Description: Was Jesus a Christian or a Jewish prophet? Did later interpreters distort the simple religion of this Galilean charismatic teacher who spoke of the essence of a true religion? Was Paul an anti-feminist or a woman's liberationist? Was he an anti-Semite or a Jew on the margins and one of the most creative thinkers of the early Jesus movement? How did the early church select its scriptures for a New Testament? And why and how were only four gospels selected and many others excluded? These and other questions we will pose in this historical study of the New Testament in its Graeco-Roman and Jewish context. The course will emphasize the nature and variety of religious expression in the early Church; it will treat the gospels in their historical setting, and it will study selected heated discourses between Paul and his churches in a treatment of his letters as conversations. It will also deal with some early interpreters of Paul in the New Testament, and will consider the message of Revelation for a persecuted church. The course will finally sample texts from the Gnostic Gospels of the second century.

Style: 75% Lecture, 25% Discussion.

Grading: 20% final exam, 10% special projects, 70% quizzes.

Exam Format: 30% multiple choice, 70% essay

RELS 5080 New Testament Proseminar

3 credit(s), max credits 18, 6 completions allowed; prereq 1082 or ReIA 1082 or 3072 or equiv credit will not be granted if credit already received for: ReIA 5080, CNES 5080;

Instructor: Roetzel, Calvin J

Description: Pro-Seminar on Romans, Paul's Letter to the Roman Churches The longest and generally regarded the most important of all of Paul's surviving letters, written to churches the Apostle Paul had neither founded nor visited, Paul's letter Romans has done more than perhaps any other to shape Christian theology. Although thousands of papyrus letters from the ancient world have survived, none more decisively shaped early Christianity or the shape of western culture than did this letter. Intensely read and interpreted by such stalwart interpreters as Marcion, Pelagius, Augustine, Martin Luther, John Calvin, John Knox, John Wesley and modern feminist critics, Romans has exerted a pervasive influence on Western Culture. Written near the end of Paul's life when his apostolic legitimacy and gospel to heathen had come under intense criticism, this letter poses significant interpretative challenges. This seminar will be an exercise in the close reading of this text in its historical setting.

RELS 5255 Archaeology of Religion

3 credit(s);

Instructor: Soderberg, John A

Description: Student may contact the instructor or department for information.

RELS 5371 Buddhism

3 credit(s); Credit will not be granted if credit has been received for: ALL 3672; Meets CLE req of International Perspect Theme;

Instructor: Junghare, Indira Y

Description:

RELS 5535 Death and the Afterlife in the Ancient World

A-F only, 3 credit(s); prereq credit will not be granted if credit already received for: CNES 3535, CNES 5535, ReIA 3535, ReIA 5535, ReIS 3535;

Instructor: Sellow, Philip

Description: Student may contact the instructor or department for information.

Respiratory Care

20 Classroom Office Building

RC 2011 Foundations for Clinical Practice of Respiratory Care

A-F only, 2 credit(s); prereq BAS respiratory care major;

Instructor: King, Vanessa Lea

Description: This course reviews the profession of respiratory care - clinical roles/responsibilities and career options. Students explore respiratory care subspecialties and differences in professional settings, and interview practitioners and 2nd year students. Students prepare to begin clinical practice in respiratory care within a hospital setting. Class includes laboratory sessions, discussion, simulation and role-playing.

RC 2021 Patient Care Techniques

A-F only, 2 credit(s); prereq BAS respiratory care major;

Instructor: King, Vanessa Lea

Description: This course introduces students to the fundamental practice, attitudes and competencies needed by all health care providers including respiratory care practitioners. Communication skills, infection control, vital signs and patient assessment are reviewed. General care techniques performed by both respiratory and nursing personnel are mastered, including moving transfer of patients. Specific care for special problems is reviewed, including immobilized patients such as those receiving mechanical ventilation.

RC 3101 Respiratory Care Modalities and Equipment I

A-F only, 4 credit(s); prereq 2210 or equivalent, BAS RC student;

Instructor: Ward, Jeffrey J

Description: Students will become proficient in performing non-invasive monitoring and therapeutic procedures. Those procedures will include: medical gas therapy, humidity and aerosol therapy, bronchial drainage, and volume expansion therapy. Commonly prescribed aerosol medications will also be reviewed. Procedures will be discussed in context with national practice guidelines as to the scientific basis of: rational, limitations, hazards and complications, issues of asepsis and modification to adapt to patient needs.

RC 3201 Cardiopulmonary Patient Assessment

A-F only, 4 credit(s); prereq [2210 or equiv], BAS RC student;

Instructor: Ward, Jeffrey J

Description: Patient assessment skills are developed to allow students to interpret patient data including: the chart record, interview, physical examination, medical laboratory data, pulmonary function reports (including blood gas analysis), electrocardiogram, hemodynamic record, mechanical ventilator flow sheet, and radiographic imaging. Cardiopulmonary diseases are introduced with emphasis on pathophysiological manifestations that can be assessed. The laboratory provides a setting for role playing, mock exams and practice of assessment skills. In cooperation with Mayo School of Health Sciences, Rochester.

RC 3301 Clinical Practice I

S-N only, 4 credit(s); prereq BAS respiratory care major;

Instructor: Wattier, Bryan Allan

Description: Students begin a series of rotations including 18 different clinical areas at the Mayo Medical Center. Each rotation requires completion of specific competencies. Those areas include 9 intensive care units, the operating room, emergency room, general floor care areas, pulmonary function labs, sleep disorders center, smoking cessation clinic, pulmonary rehabilitation program, home care, and an outpatient clinic. Students will perform respiratory care procedures and diagnostic testing with the supervision of a clinical instructor. In cooperation with Mayo School of Health Sciences, Rochester.

RC 3401 Seminar in Respiratory Care I: Case reports and Fundamentals of Research

A-F only, 1 credit(s); prereq 2210;

Instructor: Plevak, David Joseph

Description: Students will attend weekly conferences and seminar to discuss cases of clinical importance in respiratory care. The professional medical literature will be critically reviewed both from the standpoint of scientific method and clear writing style. Students will review patient cases with attention to events that required problem solving and critical thinking. Students will collaborate on a class research project leading to abstract submission. (1 hour {either Pulmonary & Critical Care Medicine Case Conference or Combined Crit Care Conference and 2 hour seminar weekly. In cooperation with Mayo School of Health Sciences, Rochester.

RC 3601 Clinical Research Concepts and Practice

A-F only, 3 credit(s); prereq RC or RTT major;

Instructor: Plevak, David Joseph

Description: Student may contact the instructor or department for information.

RC 4111 Advanced Adult Respiratory Critical Care Techniques

A-F only, 3 credit(s); prereq 3102, BAS RC student;

Instructor: Plevak, David Joseph

Description: Students will focus on topics relevant to providing respiratory care to critically ill adults. There will be an emphasis on reviewing case examples of cardiopulmonary problems and therapeutic procedures. However, a multi-organ system-wide patient approach will be maintained. Advanced competencies in ventilator management and critical care monitoring procedures including hemodynamic monitoring will be assured by laboratory experiences. In cooperation with Mayo School of Health Sciences, Rochester.

RC 4201 Subspecialization in Respiratory Care: Advanced Perinatal and Pediatric Respiratory Care

A-F only, 2 credit(s); prereq 3102, BAS RC student;

Instructor: STAFF

Description: This didactic course combined with its clinical counterpart will allow students to assume the role of the perinatal/pediatrics specialist as defined by National Board for Respiratory Care's (NBRC). A thorough review of the literature on mechanical ventilation, monitoring applied with emphasis on an evidence-based care will be provided. Current strategies for extended mechanical ventilation or other forms of long-term support will be reviewed using case study examples. (32 hours of class; 32 hours of laboratory) In cooperation with Mayo School of Health Sciences, Rochester.

RC 4202 Subspecialization in Respiratory Care: Advanced Cardiopulmonary Diagnostics

A-F only, 2 credit(s); prereq 3102, BAS RC student;

Instructor: Mottram, Carl D

Description: Students will review the rationale and methods used in cardiopulmonary diagnostics. This course along with its clinical counterpart will allow students to assume the role of the advanced pulmonary function technologist and completing the NBRC's CPFT & RPFT specialty board exams. Procedures in which participants would become competent would include inert gas and body plethysmographic measurement of lung capacity, diffusion studies, bronchial provocation, and heart & lung function during maximal exercise. Interpretation of results and quality control in the laboratory will be facilitated by case reviews and laboratory experiences. (32 hours of class; 32 hours of laboratory) In cooperation with Mayo School of Health Sciences, Rochester.

RC 4203 Subspecialization in Respiratory Care:

Cardiopulmonary Rehabilitation, Disease Prevention, Case Mgmt

A-F only, 1 credit(s); prereq 3102, BAS RC student;

Instructor: STAFF

Description: Students will review the delivery of care to chronically ill patients with lung and heart disorders with emphasis on respiratory care. The rehabilitation process will be applied to hospital-based programs, extended care facilities and in the home. Topics include clinical testing, exercise prescriptions, and practice guidelines for management. Patient case reviews as part of the laboratory will underscore the

multidisciplinary approach to case management and responsibilities unique to the respiratory therapist. This course along with its clinical counterpart will allow students to perform the responsibilities attributed to this subspecialty in respiratory care. Students will become certified asthma educators. In cooperation with Mayo School of Health Sciences, Rochester.

RC 4496 Subspecialty Clinical Practicum in Advanced Respiratory Care I

S-N only, 3 credit(s); prereq 3302, BAS respiratory care major;

Instructor: Wattier, Bryan Allan

Description: Students will complete competencies focused in the areas of advanced-level respiratory care including clinical subspecialties and related areas important to the respiratory care practitioner desiring greater scope of practice. Rotations are 8 weeks in length and include 120 hours of directed clinical experience. Rotations are conducted at facilities within the Mayo Health System and institutions affiliated with the University of Minnesota. Two rotations can be completed in one semester. In cooperation with Mayo School of Health Sciences, Rochester.

Russian

205 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: Jahn, Gary R

Description: The Beginning Russian course develops the four basic language skills--speaking, understanding, reading, and writing--in a balanced, highly integrated manner. Students do regularly assigned grammar exercises, listen to tapes, and are required to participate in each class session. Active control of Russian structure is the principal criterion of evaluation.

Style: 30% Lecture. instructor guided oral exercises

Grading: 25% final exam, 25% quizzes, 40% class participation, 10% other evaluation.

Exam Format: fill in the blanks, answer questions, translation

RUSS 1102 Beginning Russian II

5 credit(s); prereq 1101 or equiv; Credit will not be granted if credit has been received for: RUSS 4102;

Instructor: STAFF

Description: The Beginning Russian course develops the four basic language skills - speaking, understanding, reading, and writing - in a balanced, highly integrated manner. Students do regularly assigned grammar exercises, listen to tapes, and are required to participate in each class session. Active control of Russian structure is the principal criterion of evaluation.

Style: 30% Lecture. Instructor guided oral exercises.

Grading: 40% final exam, 40% quizzes, 10% class participation, 10% other evaluation. Homework.

Exam Format: Fill in blanks, translation, writing short paragraphs, answering questions, listening comprehension.

RUSS 3001 Intermediate Russian I

5 credit(s); prereq 1102 or instr consent ; Credit will not be granted if credit has been received for: RUSS 4103;

Instructor: STAFF

Description: This course continues the development of the four basic language skills -- speaking, understanding, reading, and writing. Students prepare regularly assigned written exercises, listen to CD's and videos, work with computer instructional programs and participate in class activities. Active control of the language for communication in all modalities is the goal of instruction and the main criterion of evaluation.

Style: 30% Lecture. Instructor guided oral activities

Grading: 30% final exam, 60% quizzes, 10% class participation.

Exam Format: fill in, translation to Russian, open-ended response.

RUSS 3101 Advanced Russian I

4 credit(s); prereq 3002 or instr consent ;

Instructor: STAFF

Description: General objectives: reviewing and in-depth studying of grammar; developing and improving oral and written skills; developing cultural sensitivity through the use of realia and contexts.

Style: 20% Lecture, 50% Discussion. grammar exercises

Grading: 20% mid exam, 30% final exam, 10% reports/papers, 20% quizzes, 10% in-class presentation, 10% class participation.

Exam Format: fill-in-the-blank, short essay, translation from English to Russian, answering questions

RUSS 3311 Russian Major Project

A-F only, 3 credit(s); prereq Advanced Russian major; Credit will not be granted if credit has been received for: RUSS 3311H;

Instructor: STAFF

Description: This 3-credit course is designed for and required of all students majoring in Russian, except for Honors students (see Russ 3312). It consists of writing a research paper of no less than 20 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; prereq 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 3421 Literature: Middle Ages to Dostoevsky in Translation

3 credit(s); Credit will not be granted if credit has been received for: RUSS 5421; Meets CLE req of Literature Core; Instructor: Jahn, Gary R

Description: This is an historical survey of the development of Russian literature from its origins in the tenth century until the onset of the most celebrated period in Russian literary history, that of Realism, in the middle of the 19th century. The course consists of a combination of lecture and class discussions. Students will read a representative sampling of works from various periods. These will include selections from Old Russian Literature (chronicle accounts, hagiographic works, "The Life of Archpriest Avvakum", and others) and from the literature of the 18th century (selections from Lomonosov, Sumarokov, and Karamzin). Approximately three-fifths of the course will be devoted to the literature of the first half of the 19th century. Students will read works by Pushkin, Gogol, Dostoevsky, and Turgenev. All told, required reading amounts to approximately 2,000 pages. Grades in this course are based upon performance on the mid-term and final examinations, on contributions to class discussion, and on the quality of the term paper. The term paper is not required for those enrolled in Russian 3421 but required of those enrolled in Russian 5421.

Style: 50% Lecture, 50% Discussion.

Grading: 30% mid exam, 50% final exam, 20% class participation.

RUSS 3512 Russian Art and Culture

3 credit(s); Meets CLE req of Other Humanities Core; Instructor: Walter, Ronald F.

Description: Student may contact the instructor or department for information.

RUSS 3993 Directed Studies

1-4 credit(s), max credits 4, 1 completion allowed; prereq instr consent , dept consent , college consent ;

Instructor: STAFF

Description: The purpose of this course, offered at the discretion of the faculty, is to provide individualized instruction to undergraduate students wishing to explore specialized topics not covered in regular course offerings. The number of faculty in the Russian program being small, no more than 3-5 students per year can be thus accommodated; preference is given to students in the final year of completing their Russian major. The content and procedures of this course vary widely, depending upon agreement between student and instructor, and the number of credits for which the course is taken. Students must consult the Director of Undergraduate Studies in the Russian unit before registering for this course.

RUSS 4101 Beginning Russian I

3 credit(s); prereq Fourth sem course in another language or grad student; Credit will not be granted if credit has been received for: RUSS 1101;

Instructor: Schweikert, Maria S

Description: Student may contact the instructor or department for information.

RUSS 4101 Beginning Russian I

3 credit(s); prereq Fourth sem course in another language or grad student; Credit will not be granted if credit has been received for: RUSS 1101;

Instructor: Walter, Ronald F.

Description: Student may contact the instructor or department for information.

RUSS 4101 Beginning Russian I

3 credit(s); prereq Fourth sem course in another language or grad student; Credit will not be granted if credit has been

received for: RUSS 1101;

Instructor: Jahn, Gary R

Description: The Beginning Russian course develops the four basic language skills--speaking, understanding, reading, and writing--in a balanced, highly integrated manner. Students do regularly assigned grammar exercises, listen to tapes, and are required to participate in each class session. Active control of Russian structure is the principal criterion of evaluation.

Style: 30% Lecture, instructor guided oral exercises

Grading: 25% final exam, 25% quizzes, 40% class participation, 10% other evaluation.

Exam Format: fill in the blanks, answer questions, translation

RUSS 4103 Intermediate Russian I

3 credit(s); prereq 4102, [fourth sem course in another language or grad student]; Credit will not be granted if credit has been received for: RUSS 3001;

Instructor: Schweikert, Maria S

Description: Student may contact the instructor or department for information.

RUSS 4103 Intermediate Russian I

3 credit(s); prereq 4102, [fourth sem course in another language or grad student]; Credit will not be granted if credit has been received for: RUSS 3001;

Instructor: Polakiewicz, Leonard Anthony

Description: Student may contact the instructor or department for information.

RUSS 5421 Literature: Middle Ages to Dostoevsky in Translation

3 credit(s); Credit will not be granted if credit has been received for: RUSS 3421;

Instructor: Jahn, Gary R

Description: This is an historical survey of the development of Russian literature from its origins in the tenth century until the onset of the most celebrated period in Russian literary history, that of Realism, in the middle of the 19th century. The course consists of a combination of lecture and class discussions. Students will read a representative sampling of works from various periods. These will include selections from Old Russian Literature (chronicle accounts, hagiographic works, "The Life of Archpriest Avvakum", and others) and from the literature of the 18th century (selections from Lomonosov, Sumarokov, and Karamzin). Approximately three-fifths of the course will be devoted to the literature of the first half of the 19th century. Students will read works by Pushkin, Gogol, Dostoevsky, and Turgenev. All told, required reading amounts to approximately 2,000 pages. Grades in this course are based upon performance on the mid-term and final examinations, on contributions to class discussion, and on the quality of the term paper. The term paper is not required for those enrolled in Russian 3421 but required of those enrolled in Russian 5421.

Style: 50% Lecture, 50% Discussion.

Grading: 30% mid exam, 50% final exam, 20% class participation.

RUSS 5993 Directed Studies

1-4 credit(s), max credits 16, 4 completions allowed; prereq instr consent , dept consent , college consent ;

Instructor: STAFF

Description: The purpose of this course, offered at the discretion of the faculty, is to provide individualized instruction to advanced undergraduate and graduate students wishing to explore specialized topics not covered in regular course offerings. The number of 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 205 Folwell Hall

SCAN 3011 Readings in Scandinavian Languages

4 credit(s); prereq [Dan or Nor or Swed][1004 or 4004] or instr consent;

Instructor: STAFF

Description: The purpose of the Scandinavian 3011 class is to help you improve your reading knowledge and writing skills in your primary Scandinavian language and to build a reading knowledge of the other Scandinavian languages. We will read and screen various texts in Swedish, Norwegian and Danish, and discuss and analyze them, both as a whole class and in smaller groups. You will also write journal entries and short assigned writings, do several in-class presentations, and research, revise and polish a 5-6 page semester paper in your primary Scandinavian language. Among the topics and genres the texts in this course will explore are multi-ethnic and multicultural identity, globalization, social satire, crime fiction, news events of the moment, and currents in life, culture and society in contemporary Denmark, Norway, and Sweden.

SCAN 3502 Scandinavian Myth

3 credit(s); Meets CLE req of Literature Core;

Instructor: Liberman, Anatoly

Description: Although less known to the general public than tales from Ancient Greece and Rome, the tales that have come down to us from Medieval Scandinavia are as interesting and important as those. We will read two main sourcebooks of Scandinavian mythology, known as the Elder Edda (the first half) and the Younger Edda (most of it); a textbook will supplement the main texts. The course will introduce the students to the body of the only ancient myths extant in the Germanic-speaking world and to the foundations of mythological thinking. The original language of the Scandinavian myths is Old Icelandic, but all the reading will be in English. Lectures (the main medium of this course) will alternate with discussion. There will be a take-home midterm and a take-home final based on the material of the lectures and the textbook (essay questions in both); also a paper, about five pages long, will be required. The course spans the areas of mythology, religion, literature, and cultural anthropology. No prerequisites.

Style: 80% Lecture, 20% Discussion.

Grading: 20% mid exam, 40% final exam, 40% reports/papers.

Exam Format: Essay.

SCAN 3504 The Immigrant Experience

3 credit(s); Meets CLE req of Historical Perspective Core; meets CLE req of International Perspective Theme;

Instructor: Stockenstrom, Goran K

Description: This course will examine a body of experiences related to the process of immigration among the Swedes, Norwegians, and Finns in America. These groups are characterized by a consciousness based on a sense of common origins, reflected by an internal sense of distinctiveness as well as an external perception affirming the latter. The following features will be discussed from a historical and comparative perspective: 1) geographic origin, race and language; 2) patterns of immigration and settlement; 3) shared traditions, values and myth; 4) literature, theater and music; 5) cultural and political institutions that served and maintained the group; 6) and finally the ties which, in the New World, transgressed the old kinship, neighborhood and community boundaries. A selection of oral interviews, letters and diary entries, photos and film clips, samples of stories, novels and plays, has been gathered from a variety of sources. How these ethnic experiences evolve into systems of ideas, becoming gradually more systematic and comprehensive, eventually codified in an extended historical process, will be studied in the context of a body of representative criticism.

Style: 50% Lecture, 50% Discussion.

Grading: 30% reports/papers, 50% special projects, 20% in-class presentation.

Exam Format: Take-home exam; paper (part of project)

SCAN 3505 Scandinavian Fiction From 1890 to Present 3 credit(s); Meets CLE req of Literature Core;

Instructor: Stockenstrom, Goran K

Description: This course deals with dilemma of representation in the 20th century and takes as its starting point the shift at the turn of the century from a mimetic/objective representation anchored in time and space to the subjective presentation of interior realities within the realm of imagination. A representative selection of Scandinavian texts spanning a period of 100 years of revolutionary changes in all domains of human experience, offers the students a depth and breadth of insights into the value patterns and myths of the individual cultures as well as the hegemonies that constitute the Nordic culture. This body of literature serves to illustrate how different Scandinavian authors seek to find new forms for changing historical situations. The different movements in the arts and literatures from the 20th century are reflected with varying emphasis in the evolving aesthetics on the continuum from realism to expressionism. At the same time the dialectical changes in the aesthetic forms cannot be understood without familiarity with the changing social, political and economic realities that in turn caused the former.

Style: 50% Lecture, 50% Discussion.

Grading: 30% reports/papers, 50% special projects, 20% class participation.

Exam Format: Take-home exam. Final covers texts and criticism in the form of essay questions.

SCAN 3605 The Scandinavian Short Story

3 credit(s); Meets CLE req of Literature Core;

Instructor: Zagar, Monika

Description: This course will examine 30 of the best short stories written in the five Scandinavian countries, Denmark, Finland, Iceland, Norway, and Sweden within the last 150 years. The Scandinavian short story represents a large variety of styles and attitudes ranging from the mid-19th century tales that mix romantic and realistic elements to late 20th century absurdist pieces. In recent years, the genre has developed and expanded considerably. Still, the Scandinavian short story is typically written in the realistic-psychological or fantastical-imaginative mode, and its principal concern is with characters who desperately try to plan their lives and control their future, but whose efforts are usually in vain. The course will start out by examining the genre of short story in relation to other narrative genres. The discussion of individual stories will focus on their narrative elements but attention will also be given to societal and historical background in which the stories were written. The values and backgrounds that inform our own reading will also be examined. As individual stories reflect and critique prevailing norms and values, the course will consider the short story as a window on Scandinavia. Finally, the course will attempt to establish thematic and aesthetic differences in short stories written by men and women writers. This is an undergraduate course, for both majors and non-majors. All texts are in English. The course will only have a reader.

Style: The course will be a mixture of lectures, discussions, presentations, group work and videos.

SCAN 3613 Children's Literature in Scandinavia

3 credit(s);

Instructor: Houe, Poul

Description: This undergraduate course explores Scandinavian children's literature in English translation on the background of children's culture within Scandinavian culture at large. The history of the subject dates back to the Enlightenment, when didactic and moralistic writings were aimed at socializing children's emotions and desires into acceptable bourgeois family norms. The Romantic era of the 19th century put another, more emotional and imaginative mode of writing center stage. In the fairy tales and stories told for children (and adults) by Hans Christian Andersen, the Danish father of the Scandinavian art fairy tale, children's lives are no longer inferior to the middle class norms of grown-ups. Rather, their oral culture is preferred

to the rigid cultural standards of their elders, and valued as a source of protest and dissent. This move toward individualism and independence-furthered by an increasing literacy and by the modern market place for cultural products-later paved the way for such beloved 20th century figures as Pippi Longstocking in the books by Swedish author Astrid Lindgren, and for the elusive moomins in Finland-Swedish author and artist Tove Jansson's work. At times, social and political agendas have dispensed with fantasy in favor of realism. But on the whole the two have increasingly interacted with one another since Scandinavian children's literature entered its post WWII golden era. One major children's book will be discussed in this context every week.

Style: 50% Lecture, 50% Discussion.

Grading: 30% final exam, 50% reports/papers, 20% class participation.

Exam Format: take home/essay exam

SCAN 3993 Directed Studies

1-4 credit(s), max credits 12, 12 completions allowed; prereq instr consent, dept consent, college consent;

Instructor: STAFF

Description: Guided individual reading or study. The student approaches an appropriate professor with a topic of interest, and if the professor has time and is willing to guide the student, the student, along with the professor, fills out a form which is available in the department office (205 Folwell). On this form, they specify the topic, reading and study materials, and form of evaluation.

SCAN 5502 The Icelandic Saga

3 credit(s);

Instructor: Grimstad,Kaaren E

Description: How would you like to spend your fall with shape-shifters, dragons and dragon-slayers, witches and wizards, man-eating ghouls and giants? These are some of the characters from traditional Icelandic folklore and legend that you will meet in the 13th-century Icelandic sagas. The course surveys the historical-fictional prose chronicles, known as sagas, written in 13th-century Iceland, tales of the great heroes and families of late Viking-Age Iceland. We will read a selection of these sagas and attempt to understand both how they are structured and what they tell us about medieval Icelandic society. Students will read some critical studies of sagas and participate in group discussions. Target audience includes undergraduates and non-majors, as well as graduates and majors.

Style: 50% Lecture, 50% Discussion.

Grading: 80% reports/papers, 20% class participation.

SCAN 5701 Old Norse Language and Literature

3 credit(s);

Instructor: Grimstad,Kaaren E

Description: This course is devoted to developing an understanding of the grammatical structure and acquiring a reading knowledge of Old Norse by reading texts. Translation techniques include both close reading of texts with parsing and rapid reading for content only. The target audience is broad: upper level undergraduates and graduates, both majors and non-majors. It is helpful if the student has some knowledge of another language, especially one with a complex grammar structure such as Latin or German.

Style: translation of texts

Grading: 100% quizzes.

Exam Format: passage to be translated with questions on grammar

SCAN 5993 Directed Studies

1-4 credit(s), max credits 12, 12 completions allowed; prereq instr consent, dept consent, college consent;

Instructor: STAFF

Description: Guided individual reading or study. The student approaches an appropriate professor with a topic of interest, and if the professor has time and is willing to guide the student, the student, along with the professor, fills out a form which is available in the department office (205 Folwell). On this form, they specify the topic, reading and study materials, and form of evaluation.

Social Work

105 Peters Hall

SW 1905 Freshman Seminar: Images of Youth

2 credit(s), max credits 6; prereq Fr;

Instructor: Baizerman,Michael Leon

Description: A course on "images of youth" can be about the many actual and possible representations of young people. As such, a course would examine a variety of notions about youth, the actual persons and "youth" the representation. Examination could be about the personal, social, and cultural spaces between actual (young) persons and their images and other representations, and how these vary (or not) by historical period, social arena, "true self", ethnicity/race, geography, social class, sex/gender, language, and the like. Attention could be given to how these representations are (are not) embedded in larger reticula of scientific and lay theories of these people, their "stage of life", what is "natural" about their being as they are and doing as they so and what is "essential" (and/or the essence) of their person(hood) and of the images which portray them in the popular media, in scientific theories, in novels, films and plays, and in music, poetry, and art, for instance. This seminar will explore some of these and some other related themes in pursuit of responses to the focal questions of this course: How are youth portrayed in a variety of media; how are they represented, and what are some images of youth which seem to guide our collective and individual responses to real world, everyday-life youth, and how are these images used by young people and adults to fashion their multiple identities in everyday life and in the reflective, personal self. In the University, "youth" is a subject (and object) "owned" by many academic disciplines and professions, and there can be (and is) disagreement between and among these about "the true nature" of these persons, the best ways to "enhance their healthy development" and to facilitate their "growing up" and "coming of age", and their place(s) within family, neighborhood, community, and nation. That is, "youth" is "contested terrain" and the vocabulary and rhetorics of this ongoing, but always changing (somewhat) "youth discourse" will also be a focus of this course. Framed thus, it is clear that there are a vast array of traditional disciplines and professions contributing theories, concepts and images to our subject. Any one of these can invite life-long inquiry and many will be new to you. That's inevitable and fine, because while you are experts in how you did (are doing) your youth, you are not expected to be so on the many ways you are represented in our culture and society. Indeed, that's why we are together in this Seminar - to explore and try to understand how (and why) youth are portrayed as they are. By the end of our work together, we both will have a better grasp of the issues, questions, responses, and answers.

Style: 30% Lecture, 10% Film/V/ideo, 40% Discussion. 20% Field Visits.

Grading: Grading is finalized after negotiated assignments/papers.

SW 2501W Introduction to Social Justice

A-F only, 4 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Social Science Core; meets CLE req of Writing Intensive;

Instructor: Albrecht,Lisa D

Description: This course is the first of three required courses that are part of the new interdisciplinary, cross-college undergraduate minor in Social Justice. In this course, we will focus on the meanings of social justice by looking at three key socio-political areas of study: globalization, criminal justice and social welfare. We will also look at how various activists from these arenas work for social change, and finally we will engage in community-based education (service learning) where we will volunteer in social justice organizations locally. Given the dilemmas we face on this planet regarding our survival as culturally diverse people, social justice is a fitting subject for us to explore. As we become more proficient analytical thinkers and writers, perhaps we will also become more knowledgeable

citizens, more competent communicators, and people who can make the world a better place for all human beings. Living in a democracy means that we, as citizens, have a great deal of responsibility. By looking at the meanings of social justice and at how different people and organizations work for social justice, we will explore how activism is deeply connected to citizenship and democracy. Another major goal of this course is to create a community of learners in our classroom. In forming this environment, students should be prepared to be active in class. Since this is not a lecture class, we will spend most of our classroom time together talking with each other. Listening to each other, and learning to give constructive feedback will allow our community to flourish, and will give each of us individually new perspectives on our own writing and thinking processes. The course is planned carefully, especially the community based learning experiences. Please don't fall behind; the sequence of readings and activities are meant to be done in the order I've assigned them.

SW 2501W Introduction to Social Justice

A-F only, 4 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Social Science Core; meets CLE req of Writing Intensive;
Instructor: Keen, Juliana Dawn
Description: Student may contact the instructor or department for information.

SW 3501 Theories and Practices of Social Change Organizing

A-F only, 4 credit(s); prereq 2501W; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Social Science Core;
Instructor: Albrecht, Lisa D
Description: In this course, we will look at various 20th and 21st century social change movements to study how everyday people work for social change. We will also look at how various activists work for social change, and finally we will engage in 30 hours of community-based education (service learning) where we will volunteer in social justice organizations locally. Another major goal of this course is to create a community of learners in our classroom. In forming this environment, students should be prepared to be active in class. Since this is not a lecture class, we will spend most of our classroom time together talking with each other. Listening to each other, and learning to give constructive feedback will allow our community to flourish, and will give each of us individually new perspectives on our own writing and thinking processes. The course is planned carefully, especially the community based learning experiences. Please don't fall behind; the sequence of readings and activities are meant to be done in the order I've assigned them.
Style: 25% Discussion, 25% Small Group Activities, 25% Student Presentation, 15% Service Learning.
Grading: 35% special projects, 20% reflection paper, 30% class participation, 15% other evaluation. Other Evaluation: service learning.

SW 3701 Introduction to Child Maltreatment: Intervention and Prevention

3 credit(s);
Instructor: LaLiberte PhD, Traci Lee
Description: Student may contact the instructor or department for information.

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); Meets CLE req of International Perspective Theme;
Instructor: Edleson, Jeffrey L
Description: This course examines gender violence in its multiple forms from a global perspective. An introduction to the history of violence against women, current theories and research on the causes of violence in intimate relationships, past and current responses, and interventions and prevention models to address this worldwide problem will be discussed. Understanding the multiple approaches for addressing gender violence will provide students the knowledge to describe culturally competent intervention and prevention strategies. This course is designed to meet the social science diversified core requirement and the international perspectives designated theme requirement of the University's Liberal Education requirement. There are no prerequisites for this course. This course is one of the required courses for the School of Social Work's undergraduate Family Violence Prevention Minor. Course content will be delivered using a variety of lectures and instructional methods. Lectures, discussions, guest speakers, videos, and small groups will be utilized. Use of technology will involve email and e-reserve.

SW 5051 Human Behavior and the Social Environment

A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;
prereq Grad student or 8 cr social sciences or instr consent;
Instructor: Hewitt, Amy S
Description: Student may contact the instructor or department for information.

SW 5051 Human Behavior and the Social Environment

A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;
prereq Grad student or 8 cr social sciences or instr consent;
Instructor: Kivnick, Helen Quintessa
Description: Student may contact the instructor or department for information.

SW 5051 Human Behavior and the Social Environment

A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;
prereq Grad student or 8 cr social sciences or instr consent;
Instructor: Jones, Danette Lynn
Description: Student may contact the instructor or department for information.

SW 5101 Historical Origins and Contemporary Policies and Programs in Social Welfare

A-F only, 3-4 credit(s), max credits 4, 1 completion allowed;
prereq Grad or 8 sem cr of social sciences;
Instructor: Morrissey, Megan Harrison
Description: Student may contact the instructor or department for information.

SW 5309 Case Management with Special Populations

3 credit(s); prereq Grad or non-degree seeking student or instr consent;
Instructor: Van Slyke, Victoria D
Description: Student may contact the instructor or department

for information.

SW 5513 Grant Writing and Fund-raising

1 credit(s); prereq MSW student or instr consent ;

Instructor: Cain,Therese Marie

Description: Student may contact the instructor or department for information.

SW 5810 Seminar: Special Topics: Group Therapy: Theory and Practice

3 credit(s), max credits 10, 3 completions allowed;

Instructor: Rohovit PhD,Julie Lynn

Description: Student may contact the instructor or department for information.

SW 5810 Seminar: Special Topics: Interprofessional Teamwork for Health Professional

1 credit(s), max credits 10, 3 completions allowed;

Instructor: Frenzel,Mark Gregory

Description: Student may contact the instructor or department for information.

SW 5811 Social Work Ethics

2 credit(s); prereq credit will not be granted if credit received for: 8801, grad student or non-degree seeking student or instr consent;

Instructor: Jones,Linda E

Description: Student may contact the instructor or department for information.

SW 8010 Seminar: Field Practicum I

S-N only, 1-8 credit(s), max credits 8; prereq 8201;

Instructor: Morcomb,Denise Charlot

Description: Student may contact the instructor or department for information.

SW 8010 Seminar: Field Practicum I

S-N only, 1-8 credit(s), max credits 8; prereq 8201;

Instructor: Maxwell,Steve

Description: Student may contact the instructor or department for information.

SW 8010 Seminar: Field Practicum I

S-N only, 1-8 credit(s), max credits 8; prereq 8201;

Instructor: Gilbert,MJ

Description: Student may contact the instructor or department for information.

SW 8010 Seminar: Field Practicum I

S-N only, 1-8 credit(s), max credits 8; prereq 8201;

Instructor: Vande Berg,Anne Wellington

Description: Student may contact the instructor or department for information.

SW 8010 Seminar: Field Practicum I

S-N only, 1-8 credit(s), max credits 8; prereq 8201;

Instructor: Miedema,Janelle Rae

Description: Student may contact the instructor or department for information.

SW 8010 Seminar: Field Practicum I

S-N only, 1-8 credit(s), max credits 8; prereq 8201;

Instructor: Davila-Williams,Sonia

Description: Student may contact the instructor or department for information.

SW 8020 Field Practicum II

S-N only, 1-6 credit(s), max credits 6; prereq 8010;

Instructor: Maxwell,Steve

Description: Student may contact the instructor or department for information.

SW 8020 Field Practicum II

S-N only, 1-6 credit(s), max credits 6; prereq 8010;

Instructor: 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; prereq 8010;

Instructor: Vande Berg,Anne Wellington

Description: Student may contact the instructor or department for information.

SW 8020 Field Practicum II

S-N only, 1-6 credit(s), max credits 6; prereq 8010;

Instructor: Miedema,Janelle Rae

Description: Student may contact the instructor or department for information.

SW 8020 Field Practicum II

S-N only, 1-6 credit(s), max credits 6; prereq 8010;

Instructor: Davila-Williams,Sonia

Description: Student may contact the instructor or department for information.

SW 8020 Field Practicum II

S-N only, 1-6 credit(s), max credits 6; prereq 8010;

Instructor: Walthour,Kate Ann

Description: Student may contact the instructor or department for information.

SW 8030 Advanced Standing Social Work Practicum

S-N only, 1-8 credit(s), max credits 8; prereq Adv standing;

Instructor: Morcomb,Denise Charlot

Description: Student may contact the instructor or department for information.

SW 8030 Advanced Standing Social Work Practicum

S-N only, 1-8 credit(s), max credits 8; prereq Adv standing;

Instructor: Maxwell,Steve

Description: Student may contact the instructor or department for information.

SW 8030 Advanced Standing Social Work Practicum

S-N only, 1-8 credit(s), max credits 8; prereq Adv standing;

Instructor: Gilbert,MJ

Description: Student may contact the instructor or department for information.

SW 8030 Advanced Standing Social Work Practicum

S-N only, 1-8 credit(s), max credits 8; prereq Adv standing;

Instructor: Vande Berg,Anne Wellington

Description: Student may contact the instructor or department for information.

SW 8030 Advanced Standing Social Work Practicum

S-N only, 1-8 credit(s), max credits 8; prereq Adv standing;

Instructor: Miedema,Janelle Rae

Description: Student may contact the instructor or department for information.

SW 8030 Advanced Standing Social Work Practicum

S-N only, 1-8 credit(s), max credits 8; prereq Adv standing;

Instructor: Davila-Williams,Sonia

Description: Student may contact the instructor or department for information.

SW 8041 Specialized Field Placement

S-N only, 3-4 credit(s); prereq 8030, MSW adv-standing;

Instructor: Maxwell,Steve

Description: Student may contact the instructor or department for information.

SW 8051 Psychopathology and Social Work Practice

A-F only, 3 credit(s); prereq All foundation courses for full program or advanced standing or instr consent ;

Instructor: Keefe,Daniel A

Description: Student may contact the instructor or department for information.

SW 8051 Psychopathology and Social Work Practice

A-F only, 3 credit(s); prereq All foundation courses for full program or advanced standing or instr consent ;

Instructor: Aby,Martha Jane

Description: Student may contact the instructor or department for information.

SW 8201 Social Work Methods: Practice With Individuals and Systems

A-F only, 3 credit(s); prereq MSW student;

Instructor: Dimock,Peter Trier

Description: Student may contact the instructor or department for information.

SW 8201 Social Work Methods: Practice With Individuals and Systems

A-F only, 3 credit(s); prereq MSW student;

Instructor: Rooney,Ronald H

Description: Student may contact the instructor or department for information.

SW 8201 Social Work Methods: Practice With Individuals and Systems

A-F only, 3 credit(s); prereq MSW student;

Instructor: Zelazo,Laurel Bidwell

Description: Student may contact the instructor or department for information.

SW 8301 Advanced Child Welfare Practice

A-F only, 3 credit(s); prereq All foundation courses for full program or advanced standing or instr consent ;

Instructor: Rooney,Ronald H

Description: Student may contact the instructor or department for information.

SW 8303 Advanced Mental Health Practice with Adults

A-F only, 3 credit(s); prereq 8051 or Concurrent registration is required (or allowed) in 8051 or all foundation courses for full program or advanced standing or instr consent ;

Instructor: Shannon,Patricia Jean

Description: Student may contact the instructor or department for information.

SW 8304 Advanced Practice With Children and Adolescents

A-F only, 3 credit(s); prereq All foundation courses for full program or advanced standing or instr consent ;

Instructor: Gearity PhD,Anne R

Description: Student may contact the instructor or department for information.

SW 8304 Advanced Practice With Children and Adolescents

A-F only, 3 credit(s); prereq All foundation courses for full program or advanced standing or instr consent ;

Instructor: Hoy,Judith M

Description: Student may contact the instructor or department for information.

SW 8501 Planning, Marketing, and Program Development

A-F only, 3 credit(s); prereq [Foundation curriculum, advanced standing] or instr consent ;

Instructor: Long,Anne Little

Description: Student may contact the instructor or department for information.

SW 8505 Advanced Community Organization and Advocacy

A-F only, 3 credit(s); prereq [Foundation curriculum, advanced standing] or instr consent ;

Instructor: Lightfoot,Elizabeth Bradford

Description: Student may contact the instructor or department for information.

SW 8602 Direct Practice Evaluation

A-F only, 2 credit(s); prereq 8601 or equiv or instr consent ;

Instructor: Van Slyke,Victoria D

Description: Student may contact the instructor or department

for information.

SW 8602 Direct Practice Evaluation

A-F only, 2 credit(s); prereq 8601 or equiv or instr consent ;

Instructor: Gilgun,Jane F

Description: Student may contact the instructor or department for information.

SW 8602 Direct Practice Evaluation

A-F only, 2 credit(s); prereq 8601 or equiv or instr consent ;

Instructor: Lum,Terry

Description: Student may contact the instructor or department for information.

SW 8603 Program Evaluation

A-F only, 2 credit(s); prereq 8601 or equiv or instr consent ;

Instructor: Menanteau,Dario

Description: Student may contact the instructor or department for information.

SW 8603 Program Evaluation

A-F only, 2 credit(s); prereq 8601 or equiv or instr consent ;

Instructor: Hollister,C David

Description: Student may contact the instructor or department for information.

SW 8702 Advanced Social Work Practice With Diverse Populations

A-F only, 2 credit(s); prereq All foundation courses for full program or advanced standing or instr consent ;

Instructor: Jaspersen,Faith Marie

Description: Student may contact the instructor or department for information.

SW 8702 Advanced Social Work Practice With Diverse Populations

A-F only, 2 credit(s); prereq All foundation courses for full program or advanced standing or instr consent ;

Instructor: Gilbert,MJ

Description: Student may contact the instructor or department for information.

SW 8702 Advanced Social Work Practice With Diverse Populations

A-F only, 2 credit(s); prereq All foundation courses for full program or advanced standing or instr consent ;

Instructor: Williams,Oliver Joseph

Description: Student may contact the instructor or department for information.

SW 8702 Advanced Social Work Practice With Diverse Populations

A-F only, 2 credit(s); prereq All foundation courses for full program or advanced standing or instr consent ;

Instructor: Gibson,Priscilla A

Description: Student may contact the instructor or department for information.

SW 8871 Social Work Research Seminar I

A-F only, 3 credit(s); prereq Soc wk PhD student or instr consent ;

Instructor: Lum,Terry

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; prereq Soc wk PhD student or instr consent;

Instructor: Lightfoot,Elizabeth Bradford

Description: Student may contact the instructor or department for information.

Social and Administrative

Pharmacy

7-155 Weaver-Densford Hall

SAPH 8054 Advanced Studies in Pharmaceutical Care Practice

A-F only, 4 credit(s);

Instructor: Cipolle, Robert John

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; prereq Grad SAPH major or instr consent ;

Instructor: Schommer, Jon C

Description: Student may contact the instructor or department for information.

SAPH 8200 Research Problems

1-8 credit(s), max credits 16, 16 completions allowed; prereq Grad SAPH major or instr consent;

Instructor: Oliveira PhD, Djenane R

Description: Student may contact the instructor or department for information.

SAPH 8235 Pharmaceutical Economics and Policy

A-F only, 3 credit(s); prereq Grad SAPH major or instr consent;

Instructor: Cline, Richard R

Description: Student may contact the instructor or department for information.

SAPH 8500 Pharmacy and Its Environment

A-F only, 3 credit(s); prereq Grad SAPH major or instr consent;

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); prereq Grad SAPH major or instr consent;

Instructor: Knoer PharmD, Scott J

Description: Student may contact the instructor or department for information.

Sociology

909 Social Sciences Tower

SOC 1001 Introduction to Sociology

4 credit(s); prereq Soc majors/minors must register A-F; Credit will not be granted if credit has been received for:

SOC 1011V; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;

Instructor: 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); prereq Soc majors/minors must register A-F;

Credit will not be granted if credit has been received for:

SOC 1011V; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;

Instructor: Liebler, Carolyn

Description: In this course, the student is encouraged to develop his or her sociological imagination and to apply it to the world around us. In the first section of the semester, we focus on ways in which culture, socialization, social interactions, and social control affect our day-to-day lives. Then we investigate the impacts of four key master statuses: social class, gender, race, and living as an American. These master statuses have fundamental but sometimes subtle effects on the opportunities and constraints that each of us face. In the final section of the course, we focus on a variety of other aspects of the social world (family, education, and globalization, for example) to further understand how personal troubles can be seen and analyzed as public issues using core theories and the student's sociological imagination.

Style: 50% Lecture, 10% Film/Video, 30% Discussion, 10% Small Group Activities.

Grading: 16% mid exam, 16% final exam, 24% reports/papers, 16% additional semester exams, 14% class participation, 14% laboratory evaluation.

Exam Format: Multiple choice questions, short answer, and short essay

SOC 1001 Introduction to Sociology

4 credit(s); prereq Soc majors/minors must register A-F;

Credit will not be granted if credit has been received for:

SOC 1011V; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;

Instructor: Abdi, Cawo

Description: This course introduces to the student pivotal questions that underpin classical and contemporary sociological perspectives. Issues on how society is possible and how social order is maintained are core to an understanding of ourselves as both agents and objects that shape and are shaped by our membership in society. We will examine this close relationship between the individual, society, and social structures to better appreciate the dynamics of social and power relations in our everyday living. The course explores diverse sociological theories purporting to explain current and past socio-political and economic structures. It also centralizes the importance of change and the forces that drive or/and hinder change.

Style: 50% Lecture, 30% Film/Video, 20% Discussion. videos

Grading: 20% mid exam, 20% final exam, 20% quizzes, 10% attendance, 20% reflection paper, 10% laboratory evaluation. reaction papers

Exam Format: Multiple choice questions, True/False

SOC 1011V Honors: Introduction to Sociology

4 credit(s); prereq honors; Credit will not be granted if credit has been received for: SOC 1001; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;

meets CLE req of Writing Intensive;

Instructor: 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 1571 Sociology

A-F only, 3 credit(s); prereq Concurrent registration is required (or allowed) in MATH 1161 Only Rochester-admitted students will be able to enroll in this course.; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;

Instructor: Dingel, Molly J.

Description: Student may contact the instructor or department for information.

SOC 3090 Topics in Sociology: Genocide and Global Conflict: Armenia to Darfur

3 credit(s), max credits 6; prereq Soph or above or instr consent ; 1001 recommended; soc majors must register A-F; Instructor: Kennedy, Ellen Jane Nar

Description: We will explore past and present attempts by elites to exterminate targeted civilian groups beginning with the mass murder of Armenians in the Ottoman Empire; the Nazi Holocaust of the Jews and the handicapped, gypsies, and gays; the Communist-led genocide in Cambodia; the brutal genocides in Rwanda and Yugoslavia in the 1990s; and the 21st century's first genocide in Darfur, Sudan. We will look at the uniqueness of each catastrophe as well as their similarities to understand geopolitical, economic, socio-cultural, and environmental factors involved in decisions to eliminate innocent people. We will assess humanitarian intervention and peacekeeping, and study the complex issues involved in addressing needs of internally-displaced and refugee populations. The course concludes by examining post-genocidal issues of ongoing generational impact, justice, reparations, denial, and the responsibility to protect innocent civilians when their own governments are unwilling or unable to do so.

Style: 15% Lecture, 10% Film/Video, 20% Discussion, 5% Small Group Activities, 5% Student Presentation, 20% Guest Speakers, 25% Service Learning.

Grading: 17% mid exam, 17% final exam, 32% special projects, 17% in-class presentation. Students' active engagement with the material and with course activities is expected. The class will provide opportunities for students to explore the political and social consequences of genocide in activities outside of the classroom.

Exam Format: Students will receive essay questions several days before the exams and will be expected to prepare thoughtful and critical responses in class.

SOC 3090 Topics in Sociology: Introduction to U.S. Immigration

3 credit(s), max credits 6; prereq Soph or above or instr consent ; 1001 recommended; soc majors must register A-F; Instructor: Park, Lisa Sun-Hee

Description: This introductory course will focus on the ways immigrant communities have transformed the foundations of American life. We will tackle three particular themes that have a significant presence within public discourse surrounding immigrants and immigration: new racial transformations, the immigrant narrative, and social citizenship. In doing this, we will discuss the impact of immigrants on the ideologies and institutions that structure our communities and society. Required texts include: Whiteness of a Different Color, by Matthew Frye Jacobson; Domestica, by Pierrette Hongdagneu-Sotelo; Homebound, by Yen Espiritu; Black Identities, by Mary Waters; The Latehomecomer, by Kao Kalia Yang; Entry Denied, by Eithne Luibheid

SOC 3101 Introduction to the American Criminal Justice System

A-F only, 3 credit(s); prereq Soc majors/minors must register A-F; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Social Science Core;

Instructor: Samaha, Joel B

Description: Overview and analysis of the United States criminal justice system. The course stresses three themes: 1. the

balance between the government's power to control crime and the rights of individuals; 2. the appropriate decision making criteria (seriousness of offense, criminal history of offenders, and strength of evidence) and the illegal criteria (race, ethnicity) that can infect decision-making in the major crime control agencies (police, courts, and corrections); 3. the evaluation of criminal justice policies and practices (Do they work? Are they legal? Are they fair? Are they smart?). The course describes, analyzes, and provides information and arguments to stimulate you to think critically about crime control in a constitutional democracy. Topics include crime, trends in crime, criminals and their families; victims and their families; crime control in a constitutional democracy; criminal law; police, police roles and culture, police strategies, and police and the Constitution; charging suspects; prosecuting, defending, and sentencing defendants; probation and incarceration; and prisoner reentry into society ("Eventually, they all come home.") No prior knowledge of the criminal justice system is required.

Style: 60% Lecture, 20% Discussion. documentary videos of police, courts, corrections, and terrorism

Grading: 10% class participation, 90% other evaluation. 3 NONCUMULATIVE multiple choice exams + a NONCUMULATIVE final%

Exam Format: multiple choice

SOC 3101 Introduction to the American Criminal Justice System

A-F only, 3 credit(s); prereq Soc majors/minors must register A-F; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Social Science Core;

Instructor: Page, Joshua A

Description: The goal of this course is to help students develop an introductory understanding of the criminal punishment system in the United States. We study law enforcement, courts, prisons, jails, parole, and capital punishment. Additionally, we analyze the relationships between criminal punishment and social processes, including: ethnic, racial and class inequality; political and economic change; and popular representations of crime and criminals.

Style: 45% Lecture, 5% Film/Video, 40% Discussion, 5% Small Group Activities, 5% Guest Speakers.

Grading: 30% mid exam, 30% final exam, 30% quizzes, 10% class participation.

Exam Format: Essay and short answer (3 quizzes, 1 mid-term, 1 final)

SOC 3102 Introduction to Criminal Behavior and Social Control 3 credit(s); prereq Soc majors/minors must register A-F credit will not be granted if credit has been received for Soc 3111;

Instructor: Ferrales, Gabrielle

Description: This course will address the social and legal origins of crime and crime control. We will focus on general theories of deviance/crime and present an overview of forms of social control. We will critically examine criminological, sociological and legal theories that explain the causes of crime and other misdeeds. We will cover diverse types of crime, including: street crime, violent crime, white-collar crime, occupational crime, war crimes and torture. In addition, the course will look at the punishment of crime, including policing, prosecution, sentencing and mass incarceration. There will be a particular focus on how crime and forms of social control impact social inequality and divisions around race, class, and gender.

Style: 45% Lecture, 5% Film/Video, 45% Discussion, 5% Small Group Activities.

Grading: 30% mid exam, 30% final exam, 30% reports/papers, 10% class participation.

Exam Format: Essay and short answer (1 mid-term, 1 final)

SOC 3211W American Race Relations

A-F only, 3 credit(s); prereq Soc majors/minors must register A-F; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core; meets CLE req of Writing Intensive;

Instructor: Pellow, David

Description: This course introduces students to the theoretical

and historical foundations of race relations in the United States. In particular, we focus on the formation of racial and ethnic identities, on how these are produced through political struggle at the local, national, global scales, and how they are maintained and transformed over time. We pay close attention to the ways in which race and ethnicity intersect with gender, sexuality, class, citizenship, and nation in order to better understand how systems of power, privilege, and inequality are constructed, reinforced, and challenged. The role and impact of social movements in shaping these social categories will be at the center of the course focus. Students are expected to apply social scientific concepts and theories to the subject matter, drawing on frameworks from Sociology, History, American Studies, Ethnic Studies, and Law.

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 3251W Sociological Perspectives on Race, Class, and Gender

A-F only, 3 credit(s); prereq Soc majors/minors must register A-F; Credit will not be granted if credit has been received for: AFRO 3251W; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core; meets CLE req of Writing Intensive;

Instructor: Swartz, Teresa Toguchi

Description: This course will explore the ways in which race, class and gender organize and impact social life for individuals and society as a whole. We will begin with a brief introduction to the general conceptual challenges that race, class and gender pose for typical, commonsense understandings of American society. We will then examine class, gender and race on their own terms and as they intersect with one another, attending to the ways they are constructed, experienced, and connected with social stratification and inequalities in power, status and privilege. We will explore how race, class, and gender shape and are shaped by social institutions, including work, education, family, and social policy, and will conclude by discussing implications for politics and social change. The class will focus primarily on the United States. This class is writing intensive and student will choose to write a paper based on a community service learning experience or complete a research paper.

Style: 45% Lecture, 20% Film/Video, 35% Discussion.

Grading: 25% mid exam, 60% reports/papers, 15% class participation.

SOC 3251W Sociological Perspectives on Race, Class, and Gender

A-F only, 3 credit(s); prereq Soc majors/minors must register A-F; Credit will not be granted if credit has been received for: AFRO 3251W; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core; meets CLE req of Writing Intensive;

Instructor: Logan, Enid Lynette

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: 55% reports/papers, 10% quizzes, 15% in-class presentation, 20% class participation.

Exam Format: TF and essay

SOC 3322W Social Movements, Protests, and Change **3 credit(s); prereq 1001 recommended; soc majors/minors must register A-F; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Writing Intensive;**

Instructor: Rechitsky, Raphi K

Description: Social Movements are sustained challenges against authorities that aim at changing dominant institutions and public opinion. Focusing on the origins, dynamics, and consequences of social movements, this course will explore debates about the dilemmas and challenges facing movement organizations, the relationship between social movements and political institutions, and the role of social movements and protest in bringing about change. The course is organized around general theoretical issues concerning when and why movements occur when they do; why people join, leave, or remain in movements; how movements are organized; what strategies and tactics they employ; how they are affected by institutions such as the media or the state; and their long-term and short-run impact. The classroom setting will be highly participatory, with large and small discussions maximizing our collective learning experience. The format will consist of a mixture of small and large group discussions, active learning exercises, guest discussions, and interactive lecture. Concise reading assignments will range approximately between 25 and 40 pages per week. The emphasis of the course is on applying analytical concepts through each student's original study of a local social movement organization via a community service learning project conducted during the semester (=2 hours/week). Students will keep a field journal and write 3 papers applying course material to understand 'their' movement.

Style: 15% Lecture, 5% Film/Video, 20% Discussion, 15% Small Group Activities, 5% Student Presentation, 5% Guest Speakers, 35% Service Learning.

SOC 3501 Sociology of Families

3 credit(s); prereq 1001 recommended; soc majors/minors must register A-F; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;

Instructor: Park, Lisa Sun-Hee

Description: This course will critically analyze the social construction of 'The Family?' in the U.S. We will discuss the political, economic significance of this social institution and how definitions of the family have changed over time. We will critique three powerful assumptions about the family embedded in public discourse: historical nostalgia/amenia, sacredness of familial connections, and 'natural' family formations. Using a sociological lens, we will attempt to deconstruct normative understandings of the family and treat 'The Family?' as the strange institution that it is. Required texts include: The Way We Never Were, by Stephanie Coontz Pricing the Priceless Child, by Viviana Zelizer The Commercialization of Intimate Life, by Arlie Hochschild Killing the Black Body, by Dorothy Roberts White Weddings, by Chrys Ingraham

SOC 3701 Social Theory

A-F only, 4 credit(s); prereq 1001 recommended; soc majors/minors must register A-F;

Instructor: Fischer, Laura L

Description: This course provides an introductory overview of major social theories ranging from the foundational sociological theories of Marx, Weber, and Durkheim to contemporary theories focusing on action, rational-choice, self, institutions and postmodernism. We will devote time to understanding the social and historical environments in which these theories have developed and focus on how theoretical inquiry can serve as a guide for scientific explanation of human behavior. Some of the questions explored will be: What holds societies together? How

do societies reproduce themselves? How does social change take place? How are social identities created, maintained, and transformed? What are features of modern social life and where is society headed in the future?

SOC 3701 Social Theory

A-F only, 4 credit(s); prereq 1001 recommended; soc majors/minors must register A-F;

Instructor: Broadbent, Jeffrey Praed

Description: Theories describe general principles about how the world works. This is true for theories in physics and biology as well as in sociology or economics. Theories are not always right, but at least they encourage us to think about the bigger picture, beyond the narrow circle of our personal lives. And sometimes theories are right, and give us reliable instruction about the world. One job of science is to find out which theories are right by testing them against evidence. Because social life is complicated, sociological theories can never be as exact as those of physicists. But good social theories can help us understand our social world in new and helpful ways. In this class, we cover the development of social theory from the classical and founding works of Marx, Durkheim and Weber, through more contemporary ideas such as feminism, rational choice, racism, and post-modernity. Throughout this class, we have three goals: to learn to read and understand key theoretical work in sociology; to use this work to better understand the social world around us; and to better develop our own capacity to talk and write about the world using ideas from theory.

Style: 80% Lecture, 10% Film/Video, 10% Discussion.

Grading: 15% mid exam, 20% final exam, 20% reports/papers, 30% additional semester exams, 2% attendance, 10% reflection paper, 3% class participation.

Exam Format: The tests are designed to evaluate your mastery of the concepts and ideas covered by the readings, lectures and discussions. The questions will be mostly short-answer and essay. The first three tests are worth 150 points each. The fourth is 200.

SOC 3701 Social Theory

A-F only, 4 credit(s); prereq 1001 recommended; soc majors/minors must register A-F;

Instructor: Hull, Kathleen E

Description: This course provides an introductory overview of major social theories ranging from the foundational sociological theories of Marx, Weber and Durkheim to current theories of postmodernism and globalization. We will examine a range of theories with particular attention to their treatments of core sociological questions and concerns, including: What holds human societies together? How do societies reproduce themselves? What are the key sources of social conflict, and how are they resolved or contained? What are the significant features of modernity, and what are the implications of modernity for social life? How are social identities created, sustained or transformed, and to what effect? Where is society headed in the future? The goals of the course are to deepen students' understanding of the significance of such questions and to provide a preliminary survey of theories that have tackled these questions from the late 19th century to the present. For present and future sociology majors, the course provides an indispensable background for subsequent work in the discipline. For all others, it provides an invitation to think about some of the most vital questions that confront us all as reflective and self-aware members of our communities and our world. The course design is premised on the idea that the best way to learn and understand social theory is by seeing its connection to contemporary issues and concerns. Therefore, the primary theory readings in this course are paired with writings that illustrate the relevance of these theories to contemporary concerns or that directly apply the theories to current issues and questions.

Style: 60% Lecture, 10% Film/Video, 20% Discussion, 10% Small Group Activities.

Grading: 35% mid exam, 35% final exam, 30% quizzes.

Exam Format: multiple choice, short answer and essay

SOC 3801 Sociological Research Methods

4 credit(s); prereq 1001 recommended; soc majors must register A-F;

Instructor: Kozak-Isik, Gulseren

Description: Investigating social world is an integral part of social sciences. From economics to sociology, many fields use the methods of collecting and analyzing data we will study in this class. As a general introduction to social research methods, this course will cover four broad topics: the foundations of social science, research design, data collection, and data analysis. In discussing each topic, we will also consider the ethical implications of social research. By the end of the semester, you will know about available modes of doing research in social sciences in general and in sociology in particular. As well, you will learn about construction types of research questions that will yield better data and better answers to the puzzles you want to solve and understand. You also will be able to differentiate a sound research from a problematic one.

SOC 3801 Sociological Research Methods

4 credit(s); prereq 1001 recommended; soc majors must register A-F;

Instructor: Liebler, Carolyn

Description: This course focuses on the effective critical evaluation of sociological evidence. After introducing basic principles of sociological research, we will carefully read and analyze significant studies which exemplify each of four types of sociological research methods: field observations, historical archives, surveys, and experiments. No mathematical or statistical background is required.

Style: 60% Lecture, 5% Film/Video, 5% Discussion, 25% Laboratory, 5% Small Group Activities.

Grading: 25% mid exam, 25% final exam, 25% reports/papers, 10% written homework, 10% class participation, 5% laboratory evaluation.

Exam Format: multiple choice and short answer

SOC 3811 Basic Social Statistics

4 credit(s); Meets CLE req of Mathematical Thinking Core;

Instructor: Knoke, David H

Description: This is a social statistics course for undergraduate sociology majors. It emphasizes describing data and testing hypotheses. Lectures expose students to the theoretical bases of statistical methods and how to use them in social research. Laboratory sessions teach computing skills and data manipulation techniques. Test problems and lab assignments help students to gain knowledge of basic descriptive and inferential statistics, including frequency distributions, means tests, correlation and regression. Many examples are drawn from diverse sociological topics and illustrated with national survey data.

Style: 67% Lecture, 33% Laboratory.

Grading: 25% laboratory evaluation, 75% other evaluation. Three exams during semester

Exam Format: Computation of statistics problems

SOC 4101W Sociology of Law

A-F only, 3 credit(s); prereq [1001, 3101, 3102] or [3111, 3701] recommended; soc majors/minors must register A-F; Meets CLE req of Writing Intensive;

Instructor: Minyard, Jeremy Dixon

Description: Student may contact the instructor or department for information.

SOC 4102 Criminology

A-F only, 3 credit(s); prereq 3101 or 3102 or 3111 or instr consent ; soc majors/minors must register A-F; Credit will not be granted if credit has been received for: SOC 4103;

Instructor: Savelsberg, Joachim J

Description: This course examines new trends in criminological research, i.e. innovative explanations of crime and punishment. A cross-section of recent criminology books and articles will be discussed that have attracted much attention among scholars and/or the broader public. Examples for crime theories discussed are Messner and Rosenfeld's "Crime and the American Dream," Sampson and Wilson's focus on inner city poverty and dislocation as a central root of crime, Hagan/McCarthy's "Mean

Streets" with its focus on homeless youth and crime, Newman's "Rampage," a study on school shootings, and Anderson's "Code of the Street." The punishment side covers sections from books by Beckett on the role of media and politics in creating moral panics, Garland with his focus on punitive responses in times of uncertainty, and texts on international differences in punishment. A new section examines a much neglected theme: serious human rights and humanitarian law violations such as war crimes and genocide and control responses to them. Students read chapters from books and articles while lecture provides background information. Lecture is accompanied by discussion and small group work.

Style: 50% Lecture, 15% Film/Video, 20% Discussion, 15% Small Group Activities. small group work

Grading: 60% mid exam, 30% final exam, 10% class participation.

Exam Format: multiple choice, short answer

SOC 4125 Policing American Society

A-F only, 3 credit(s); prereq 3101 or 3102 or 3111 or instr consent ; [4161, 4162] recommended; soc majors/minors must register A-F;

Instructor: Wozniak, Jesse S

Description: This course provides an in-depth sociological analysis of policing. We examine the following questions: ? What constitutes ?policing?? ? What are the defining characteristics of the ?police? and ?police culture?? ? How can we critically evaluate both popular and academic accounts of policing? ? What functions do police serve, and how do these change over time? ? How do recruits become ?police officers?? ? What is the relationship between the police and state power? The types of crimes and peoples we choose to police says a great deal about our state, our society, and our shared values. For many people, their only contact with state officials comes through interaction with police officers. However, few people understand where the police came from, what they do, and why they are structured in the way they are. We will analyze several case studies to understand the police culture and the role of police in modern American society. There will be a strong emphasis on the relationships between police and social movements, highlighting ways in which police bolster state authority, prevailing social relations, and dominant values, sentiments, and behaviors. Finally, throughout the course there will be a strong focus on developing critical thinking skills.

Style: 40% Lecture, 20% Film/Video, 20% Discussion, 10% Small Group Activities, 10% Guest Speakers.

Grading: 25% mid exam, 25% final exam, 30% reports/papers, 20% class participation. Class participation is a major portion of your grade in this course, as discussion and group work will be emphasized.

Exam Format: Exams will be a mixture of multiple choice and short answer/essay questions

SOC 4142 Juvenile Justice and Law

3 credit(s); prereq [3101 or 3102 or 3111 or instr consent], [jr or sr or grad student]; soc majors/minors must register A-F;

Instructor: Malmquist, Carl P

Description: An overall focus on issues involving juveniles in our society and how various issues are dealt with in the system of juvenile justice. Topics include: allocation of power among juveniles, families, and the state; problems that arise for juveniles with the school setting and within families; abuse and child neglect; children's rights; and the juvenile court and its origins up to more current problems. Various types of cases and problems that arise in the juvenile justice system will be considered.

Style: 60% Lecture, 30% Discussion. videos

Grading: 95% other evaluation. exams, 5% class participation

Exam Format: multiple choice

SOC 4161 Criminal Law in American Society

3 credit(s); prereq 3101 or 3102 or 3111 or instr consent ; soc majors/minors must register A-F;

Instructor: Samaha, Joel B

Description: What's criminal law and what's it good for? Should

we punish people only for what they do or for what they might do or even sometimes for who they are? What are the justifications and excuses for committing crimes? Topics: Bill of Rights and criminal law; elements of crime prosecution has to prove beyond a reasonable doubt; accomplices; criminal attempts; defenses of justification (self-defense, defense of home) and defenses of excuse (insanity, age, syndromes); criminal homicide; criminal sexual conduct; terrorist crimes. Read and discuss actual cases edited for non lawyers. Intensive class discussion. For upper division undergraduates, all majors.

Style: 15% Lecture, 85% Discussion.

Grading: 10% class participation, 90% other evaluation. weekly exams covering reading and discussion

Exam Format: 70% definition, explanation of concepts (no notes or books allowed); 10%, case analysis (take home); 20%, essay based on discussion (closed book, open notes)

SOC 4170 Sociology of International Law

A-F only, 3 credit(s); prereq 1001 or 3101 or 3102 or 3111 or instr consent ; soc majors/minors must register A-F; Credit will not be granted if credit has been received for: GLOS 4406; Meets CLE req of International Perspect Theme;

Instructor: Boyle, Elizabeth Heger

Description: This course takes a broad sociological look at both international law and global culture. Students will consider particular international laws, such as the Geneva Convention and the Universal Declaration of Human Rights, and also look at international legal institutions, such as Interpol, the International Criminal Court, and the International Court of Justice. Students will explore the effect of international law on civil and political rights, economic rights, rules of war, child labor, female genital cutting, and immigration. Finally, students will engage critical questions such as the likely implications of "opting out" of international law and the circumstances under which international law is likely to lead to real changes. The course grade is based on two take-home exams, one paper, and a short documentary project.

Style: 40% Lecture, 40% Discussion. video/audio presentations

Grading: 20% mid exam, 30% final exam, 15% reports/papers, 10% class participation, 25% other evaluation. documentary

Exam Format: take-home exam

SOC 4311 Race, Class, and the Politics of Nature

A-F only, 3 credit(s); Meets CLE req of Environment Theme; meets CLE req of International Perspect Theme;

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 4511 Sociology of Youth: The Transition to Adulthood

3 credit(s); prereq 1001 or instr consent ; soc majors/minors must register A-F;

Instructor: Mortimer, Jeylan T

Description: The paths young people take as they move through adolescence and make the transition to adulthood have become longer and more variable in recent decades. These pathways are linked to broad social forces. This course will examine the consequences of recent societal trends for the process of becoming an adult. It will consider demographic trends and patterns of inequality, changes in the labor force, technological advances, the linkages between school and work, and changes in other major institutions, such as the criminal justice and health care systems. We will examine how these societal trends influence young people differently, depending on their social locations (e.g., gender, race/ethnicity, and social class background). The course will also consider youth agency; how young people envision their futures, make decisions and plans, and enact behaviors in an attempt to achieve their goals in the contexts of changing opportunities and constraints. Youth preparation for the future will be studied in the realms of interpersonal competence, physical and mental health, vocational development, and civic engagement. Finally, the course will consider social policy and interventions designed to enhance both this phase of the life course and to ensure a successful transition to adulthood.

Style: 60% Lecture, 10% Film/Video, 30% Discussion.

Grading: 40% mid exam, 40% final exam, 10% in-class presentation, 10% class participation.

Exam Format: Take-home essay

SOC 4521 Love, Sex, and Marriage

3 credit(s); prereq Soc majors must register A-F 1001 or instr consent ; soc majors/minors must register A-F;

Instructor: Hull, Kathleen E

Description: This course will provide an overview of sociological approaches to intimate human relationships. Specific topics we will cover include love and romance, dating and mate selection, sexuality, cohabitation, marriage, and divorce. The focus is on contemporary American society, but current U.S. practices are placed in historical and cross-cultural context. The goals for the course include: familiarizing you with social scientific approaches to the study of intimate human relationships and increasing your interest in the topic; challenging some of your taken-for-granted notions about what is "natural" or "normal" with regard to love, sexuality, and marriage; stimulating you to think about the impact of broad social forces (particularly the rise of modernity) on beliefs and practices related to intimate relationships; highlighting the salience of various social identities - including race/ethnicity, class, age, sexual orientation, and especially gender - to beliefs and practices around intimacy; and, introducing you to some of the significant current policy debates regarding intimate relationships, and fostering your ability to critically assess the arguments on all sides of these debates.

Style: 60% Lecture, 10% Film/Video, 20% Discussion, 10% Small Group Activities.

Grading: 40% mid exam, 30% final exam, 30% quizzes.

Exam Format: multiple choice, short answer, essay

SOC 4966W Major-Project Seminar

A-F only, 4 credit(s); prereq 1001, 3701, 3801, 3811, 12 cr upper div sociology, dept consent ; Meets CLE req of Writing Intensive;

Instructor: Aminzade, Ron R

Description: This section is a capstone version of the senior projects course that is designed to provide students with an opportunity to think about how the knowledge, skills, and insights of the sociology major can be used in lives and careers outside of the University. The course will explore the role of sociological knowledge, research, and thought in contemporary American public life. The focus will be on how those outside the academy (e.g. journalists, judges, lawmakers, probation officers, etc.) have used, ignored, or misused sociological knowledge. Instead of traditional research projects, students will be encouraged to conduct projects that are more engaged and applied in nature. Specifically, students will be required to do community service learning and to write either a field research paper or an action project paper based on their work with participating community organizations. The final project will build on the values of critical thinking, effective communication, diversity, and social

responsibility that are cultivated in sociology.

Style: 33% Lecture, 33% Discussion. paper development and one on one meetings with instructors

Grading: 60% reports/papers, 20% class participation, 20% other evaluation. paper proposals, outlines and drafts

SOC 4966W Major-Project Seminar

A-F only, 4 credit(s); prereq 1001, 3701, 3801, 3811, 12 cr upper div sociology, dept consent ; Meets CLE req of Writing Intensive;

Instructor: Schurman, Rachel

Description: Description: Major Project Seminar is designed to provide the resources and guidance necessary for sociology majors to complete an independent research project. In doing so, the instructor will present material relevant for each stage of the research and writing process including: formulating a research question, reviewing relevant literature, designing the data collection, collecting and analyzing data, and writing a final paper. At each of the aforementioned stages, students will write and submit a section of their paper, working toward a complete research project due at the close of the semester. Students will work together in small groups, reading and commenting upon each other's work. Students will receive written feedback from the instructor, as well as one-on-one consultation, throughout the research and writing processes. Each student is encouraged to investigate a sociological topic of personal interest, thus increasing the likelihood that completion of her or his research project, although demanding, will be both interesting and rewarding. Class Time: 20% Lecture; 15% discussion, 20% group work. Project/paper development and individual meetings with instructor/TA. Work Load: Approximately 10-15 pages of assigned reading per week; extensive reading in student's research/project area; 25-30 pages of writing; short assignments

SOC 4977V Senior Honors Proseminar I

A-F only, 3 credit(s); prereq 3701, 3801, 3811, 9 additional upper div sociology cr, sr soc honors major, dept consent ; Meets CLE req of Writing Intensive;

Instructor: Boyle, Elizabeth Heger

Description: This course consists of several components. First, students read a series of articles that raise different research questions and use different research methodologies. We use this exercise to prepare for the development of research topics and questions. Next, students prepare topic statements, in which they outline a research question they might want to investigate in their Honors thesis. Students then proceed to search for literature to learn about ways in which previous scholarship has dealt with their issue of interest. This segment culminates in the writing of a literature review and a revision of the topic statement. Finally, students prepare a rough draft research proposal relating to their topic that advances the existing literature. This will be presented, finalized, and defended in the second semester of the course.

Style: 20% Lecture, 10% Discussion, 40% Laboratory. presentations and peer review

Grading: 90% reports/papers, 10% class participation.

SOC 5455 Sociology of Education

3 credit(s); prereq 1001 or equiv or instr consent ; soc majors/minors must register A-F; Credit will not be granted if credit has been received for: EDPA 5041;

Instructor: Jones, Lisa Marie

Description: Student may contact the instructor or department for information.

SOC 5811 Intermediate Social Statistics

4 credit(s); prereq 3811 or equiv; primarily for 1st-yr soc grad students; soc majors/minors must register A-F;

Instructor: Warren, John R

Description: Student may contact the instructor or department for information.

SOC 8001 Sociology as a Profession

S-N only, 1 credit(s), max credits 2; prereq Grad soc major;

Instructor: Warren, John R

Description: Student may contact the instructor or department

for information.

SOC 8011 Sociology of Higher Education: Theory and Practice
3 credit(s); prereq Grad soc major or instr consent;

Instructor: Aminzade,Ron R

Description: The first part of this course situates teaching and learning activities by exploring the social and political context of higher education in the United States. Topics include the changing character of academic professions, the implications of organizational changes for teaching and learning, tenure and academic freedom, affirmative action and multicultural education, ethics and professional responsibilities, and alternative possible futures for higher education. During the second part of the course, we will explore the art and craft of teaching. The emphasis is on developing the skills necessary to exercise authority without inhibiting learning, encourage active and cooperative learning, teach critical reasoning, deliver effective lectures, facilitate lively discussions, and evaluate student learning outcomes and teacher performance. 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. Each session will include a case study, cooperative learning exercise, film, writing exercise, visitor, or role-play game.

SOC 8090 Topics in Sociology: Contexts Workshop:Graduate Student Editorial Board

1.5 credit(s), max credits 12, 4 completions allowed; prereq instr consent ;

Instructor: Hartmann,Douglas

Description: Students in the course will serve as the graduate student board and substantive contributors to Contexts, the American Sociological Association journal currently housed in Minnesota. Instructor permission, based on a detailed application, is required to register for the course. In addition to experience and qualifications, the board will be selected so as to involve students from different stages in the program, substantive interest areas, and methodological specialties. Though there will be some overlap from year to year, participants in the course will rotate on an annual basis. The seminar is designed as a year-long 3-credit course (with 1.5 academic credits awarded for fall and 1.5 credits in spring) with the possibility of honorary stipends for the summer months.

Style: 10% Lecture, 40% Discussion, 10% Small Group Activities, 25% Student Presentation, 5% Field Trips, 10% Web Based. Outreach activities, social events, and release parties are sometimes held outside class time.

SOC 8190 Topics in Law, Crime, and Deviance: Crime and Punishment

3 credit(s), max credits 9, 3 completions allowed; prereq Grad student in sociology or instr consent ;

Instructor: Page,Joshua A

Description: Student may contact the instructor or department for information.

SOC 8290 Topics in Social Stratification: Global Cities
3 credit(s), max credits 12, 4 completions allowed;

Instructor: Goldman,Michael R

Description: Student may contact the instructor or department for information.

SOC 8412 Social Network Analysis: Theory and Methods
3 credit(s); prereq instr consent ;

Instructor: Knoke,David H

Description: This seminar introduces social network analysis to graduate students, emphasizing its theoretical, substantive, and methodological foundations. Our collective goal is to acquire a sufficient grasp of the contemporary network literatures to pursue independent advanced study, and ultimately, to contribute original research results to our disciplines. Specifically, we'll identify key network concepts and principles; examine data collection, measurement, and computer analysis techniques; and investigate applications in sociology, organization studies,

political science, public administration, and related disciplines. Network analysis spans a diverse range of phenomena from ego-centric ties, to small work-team sociograms, to organizational relations, to trade and military alliances among nation states. Based on the summer survey of registered students' substantive interests, we'll concentrate on social capital, communication, personal networks, learning and innovation diffusion, intra- and interorganizational relations, social movements and collective action, political networks, international systems, and small world and Internet dynamics. About an hour of each class will be spent on network methodologies. The principles that students learn in this course will enable them to study advanced topics of their own choosing. Wasserman & Faust's encyclopedic Social Network Analysis provides our primary text, with required and background articles and chapters selected from the research literatures of several disciplines. Students will learn how to perform basic network analyses of previously collected datasets, using the UCINET computer package. We'll also explore network visualizations using spatial plotting programs. Doctoral students in the Department of Sociology may use this course to fulfill their advanced methods requirement.

Style: 60% Lecture, 20% Discussion, 20% Student Presentation.

Grading: 40% reports/papers, 20% in-class presentation, 40% problem solving.

SOC 8501 Sociology of the Family

3 credit(s);

Instructor: Swartz,Teresa Toguchi

Description: What is family? Debates over family have become increasingly contested in recent decades, as we witness a shift away from the "traditional" nuclear family toward a broader range of family forms, and as policy debates heat up about "family decline," "families values," what families should look like, and even what should count as a family. In this survey course, we examine both the empirical reality of family diversity and change, shifts in cultural ideals of family, and the corresponding theoretical and policy debates. The course is primarily focused on the U.S. context, although some material offers a comparative perspective and others feature transnational family experiences. Along with issues of diversity and change, the course examines the ways in which broader inequalities affect family life, particularly inequalities of gender, race/ethnicity, social class, sexuality, and immigrant status. We will conclude by considering possible future directions for "the family."

SOC 8701 Sociological Theory

A-F only, 4 credit(s); prereq Grad soc major or instr consent;

Instructor: Gerteis,Joseph Howard

Description: Student may contact the instructor or department for information.

SOC 8731 Sociology of Knowledge

3 credit(s); prereq Soc grad student or instr consent ;

Instructor: Savelsberg,Joachim J

Description: Course Content: Knowledge will be explored from diverse perspectives. We will consider the relationship between knowledge and related terms such as ideology, stereotype, prejudice, belief, and truth; different ways of thinking about knowledge with a focus on comparisons between groups, categories (e.g., gender, race, class, generation, nationality), institutions (family, politics, law, science), and societies across time and space; the relationship between power and knowledge; the role of ritual for knowledge; and the genealogy of theories of knowledge. In addition to a core of common readings, each student will adopt a specific area of knowledge or topic (e.g., terrorism, war, race, gender roles, technology, crime, punishment, law, welfare, family, management, democracy), examine the form and content knowledge about this issue takes in different social contexts, and consider how different sociological theories help us make sense of these patterns. Course Organization: We will read and discuss literature along the lines of different theoretical ideas or substantive topics. Our sessions are, for the most part, organized along a number of schools of thought that favor different concepts and ways of

thinking about knowledge. In most weeks, each school will be represented by one exemplary book. Yet, each student will begin with a topic of his or her choice, ideally related to a dissertation theme or to some other theme in which you have a profound interest (examples may be: knowledge about opportunities and ideals in America [American Dream], other racial groups, management strategies, the state of (post-) modernity, ideas about the state of education and students, sexuality and human reproduction, crime and punishment, economic crises, past evils [e.g., slavery, genocide, Holocaust] or past regimes [e.g., Communism in Eastern Europe; the Cultural Revolution in the PRC], the government and how it works). You may be interested in one of these areas of knowledge (or others) as held by ?people in the street? or by professional groups or by social scientists or by other categories in which you have a specific interest). Maybe you have a book, a paper or some other source that shows empirical patterns or trends in the area of knowledge you are interested in. Any such pattern may serve as a baseline. As we go through the course you may then explore how the different theoretical approaches ?work? if you were to apply them to your theme.

Style: 25% Lecture, 45% Discussion, 15% Small Group Activities, 15% Student Presentation.

Grading: 100% reports/papers. No "A" grade possible without regular attendance and active participation

SOC 8821 Research Practicum

3 credit(s); prereq Sociology grad student or instr consent ;

Instructor: Boyle,Elizabeth Heger

Description: Student may contact the instructor or department for information.

SOC 8890 Advanced Topics in Research Methods: Interviewing

3 credit(s), max credits 12, 3 completions allowed; prereq

Grad soc major, 8801, 8811 or instr consent ;

Instructor: Schurman,Rachel

Description: Arlie Hochschild, Lillian Rubin, and Michele Lamont have all given us rich sociological insights into the hearts, minds and lives of U.S. workers on the basis of in-depth interviews. Other skillful interviewers have opened up other worlds to the sociological imagination, and taught us much about the way people think, feel, and make sense of their worlds as well as of their identities. This course explores in-depth interviewing as a qualitative research method. Students will learn how to conduct interviews; transcribe, code, and analyze interview data; and write up interview-based research. We will also consider a range of epistemological, practical, and ethical issues related to interviewing as a research method, reading materials drawn mainly from sociology and geography. This course is particularly well-suited to graduate students who already have an interview-based project in mind, and want to acquire the skills for carrying out their research; and students who are considering using interviews in their dissertation research, and want to try their hand at in-depth interviewing.

Software Engineering

6-202 EE/CSci

SENG 5899 Software Engineering Seminar

1 credit(s), max credits 2; prereq Grad SEng major, instr consent;

Instructor: Collins,John

Description: Student may contact the instructor or department for information.

SENG 8494 Capstone Project (Plan B Project)

S-N only, 3 credit(s); prereq SEng major;

Instructor: Collins,John

Description: Student may contact the instructor or department for information.

SENG 8891 Independent Project

2-6 credit(s), max credits 12;

Instructor: Hedger,Richard John

Description: Student may contact the instructor or department for information.

SENG 8891 Independent Project

2-6 credit(s), max credits 12;

Instructor: 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: 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.

SENG 8891 Independent Project

2-6 credit(s), max credits 12;

Instructor: Skovbroten,John Emil

Description: Student may contact the instructor or department for information.

Soil, Water, and Climate

439 Borlaug Hall

SOIL 1125 The Soil Resource

4 credit(s); Credit will not be granted if credit has been received for: SOIL 2125; Meets CLE req of Environment Theme; meets CLE req of Physical Science/Lab Core;

Instructor: Cooper, Terence H

Description: This course is designed for undergraduates who have completed some of the basic sciences (biology, chemistry). The course covers the 5 basic areas of: 1) Soil classification; 2) Soil formation; 3) Physical properties; 4) Biological properties; and 5) Chemical properties. Students must use the WWW to read required information before doing hands-on laboratory activities. Individual exams, team exams, lecture dyads, lab reports, land use project, and final exam are used to determine course grades. Lecture notes on the WWW.

Style: 60% Lecture, 40% Discussion.

Grading: 15% mid exam, 15% final exam, 40% quizzes, 10% laboratory evaluation, 20% other evaluation. land use project

Exam Format: MC

SOIL 2125 Basic Soil Science

A-F only, 4 credit(s); prereq Chem 1011 or Chem 1021 or equiv; Credit will not be granted if credit has been received for: SOIL 1125; Meets CLE req of Environment Theme;

Instructor: Cooper, Terence H

Description: This course is designed for undergraduates who have completed some of the basic sciences (biology, chemistry). The course covers the 5 basic areas of: 1) Soil classification; 2) Soil formation; 3) Physical properties; 4) Biological properties; and 5) Chemical properties. Students must use the WWW to read required information before doing hands-on laboratory activities. Web exams, team exams, lecture dyads, lab reports, land-use project and final exam are used to determine course grades. Lecture notes on the WWW

Style: 60% Lecture, 40% Discussion.

Grading: 15% mid exam, 15% final exam, 40% quizzes, 10% laboratory evaluation, 20% other evaluation. land use project

Exam Format: MC

SOIL 3521 Soil Judging

A-F only, 1 credit(s), max credits 3, 3 completions allowed; prereq 4511;

Instructor: Cooper, Terence H

Description: Students who participate in the regional or national soil judging contest are eligible to enroll in this course. Soil judging contests are in October and require 4 days of commitment. Students should have completed Soil 4511

Style: Field trip to contest

Grading: 100% final exam.

SOIL 4093 Directed Study

1-7 credit(s), max credits 20, 20 completions allowed; prereq instr consent ;

Instructor: STAFF

Description: Students who want to explore a special topic of their interest should visit with a faculty member who will direct their exploration. Report length dependent on the credits.

Style: Independent research

SOIL 4094 Directed Research

1-7 credit(s), max credits 7, 1 completion allowed; prereq instr consent ;

Instructor: STAFF

Description: Students who want to do research in a special area should determine a faculty member who will guide their research activities. Research depth depends on the credits.

Style: Independent study

SOIL 4511 Field Study of Soils

A-F only, 2 credit(s); prereq 2125;

Instructor: Cooper, Terence H

Description: This is a field course that requires students to learn how to write soil profile descriptions. Students visit numerous roadcuts and determine the morphological characteristics of the soils observed. Final field exam determines the course grade. Field exam is open book. Class meetings end first week of November. Week long trip to another state for further soil investigation is possible.

Style: 100% Laboratory.

Grading: 100% final exam.

SOIL 5125 Soil Science for Teachers

3 credit(s); Credit will not be granted if credit has been received for: SOIL 1125;

Instructor: Cooper, Terence H

Description: This course is designed for teachers who have completed some of the basic sciences (biology, chemistry). The course covers the 5 basic areas of: soil classification, soil formation, physical properties, biological properties and chemical properties. Students must use the WWW to read required information before doing hands-on laboratory activities. Lecture notes on the WWW. Students have the opportunity to prepare lesson plans for their students.

Style: 60% Lecture, 40% Discussion.

Grading: 40% mid exam, 10% final exam, 20% quizzes, 10% laboratory evaluation, 20% other evaluation. land use project

SOIL 5232 Vadose Zone Hydrology

3 credit(s); prereq [Math 1271 or equiv], [Phys 1042 or equiv];

Instructor: Gupta, Satish C

Description: This course is intended for undergraduates and graduate students in Soil, Water, & Climate, Water Resources, Institute of Technology, Environmental Sciences, and Natural Resources. The course covers soil physical properties and processes that govern the transport of mass and energy in soils. Major emphasis is on water and solute transport through the vadose zone and their impact on subsurface hydrology and water quality. Specific topics include energy state of soil water, soil water retention characteristics, saturated and unsaturated hydraulic conductivities, Poiseuille and Darcy laws, law of mass conservation, water flow through uniform and layered soils, water infiltration equations, mechanisms of contaminant transport, preferential flow, contaminant adsorption and decay, transport of volatile organic compound, soil thermal properties, steady and non-steady state heat flow, and convective and diffusive gas fluxes. The lectures are supplemented with hands on laboratory exercises on methods of measuring hydraulic, thermal, and gas properties of soils, and methods of characterizing water, contaminants, heat, and gas fluxes in soils. We also have one to two guest lectures from scientists working in the Environmental Consulting Companies and State Agencies.

Style: 70% Lecture, 30% Laboratory.

Grading: 30% mid exam, 25% final exam, 25% reports/papers, 20% problem solving.

Exam Format: multiple choice and identification

SOIL 5311 Soil Chemistry and Mineralogy

3 credit(s); prereq [[Chem 1022 or equiv], Phys 1102, grad] or instr consent ;

Instructor: Toner, Brandy Marie

Description: Structural chemistry, origin/identification of crystalline soil clay minerals. Structure of soil organic matter. Chemical processes in soil: solubility, adsorption/desorption, ion exchange, oxidation/reduction, acidity, alkalinity. Solution of problems related to environmental degradation, plant nutrition, and soil genesis.

Style: We will meet MW 4:00-5:30pm

SOIL 5480 Special Topics in Land and Atmospheric Science

1-4 credit(s), max credits 6, 6 completions allowed; prereq Sr or grad student;

Instructor: Nater, Ed

Description: Student may contact the instructor or department for information.

SOIL 5480 Special Topics in Land and Atmospheric Science

1-4 credit(s), max credits 6, 6 completions allowed; prereq Sr or grad student;

Instructor: Snyder, Peter K

Description: Student may contact the instructor or department for information.

SOIL 5555 Wetland Soils

A-F only, 3 credit(s); prereq 1125 or 2125 or equiv or instr consent ; Concurrent registration is required (or allowed) in 4511 recommended; Credit will not be granted if credit has been received for: ESPM 5555;

Instructor: Anderson, James L

Description: Student may contact the instructor or department for information.

SOIL 5611 Soil Biology and Fertility

3 credit(s); prereq 2125, Biol 1009 or equiv, Chem 1021 or equiv, sr or grad; BioC 3xxx, MicB 3xxx recommended;

Instructor: Allan, Deborah L

Description: Student may contact the instructor or department for information.

SOIL 8110 Colloquium in Soil Science

S-N only, 1-3 credit(s), max credits 6, 6 completions allowed;

Instructor: Twine, Tracy E

Description: Student may contact the instructor or department for information.

SOIL 8128 Seminar in Soils

S-N only, 1 credit(s), max credits 2;

Instructor: Rice, Pamela

Description: Student may contact the instructor or department for information.

SOIL 8195 Research Problems in Soils

1-5 credit(s), max credits 10, 10 completions allowed; prereq [Grad major in soil sci or related field], instr consent ;

Instructor: Nater, Ed

Description: Student may contact the instructor or department for information.

SOIL 8550 Teaching Experience

S-N only, 1 credit(s), max credits 6, 6 completions allowed; prereq Grad major in soil sci or related field, instr consent ;

Instructor: Allan, Deborah L

Description: Student may contact the instructor or department for information.

Spanish

34 Folwell Hall

SPAN 144 Intermediate Medical Spanish

S-N only, 0 credit(s); prereq [1st yr college-level Spanish or equiv], dept consent ;

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. This course is partially internet delivered.

Style: In class: Active participation; and Individual work: Variety of assignments and group discussion on WebCT.

SPAN 344 Advanced Medical Spanish

S-N only, 0 credit(s); prereq Span 0144, 2 yrs. Spanish College Level or equiv, dept consent .;

Instructor: Lopez, Maria 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); prereq Less than 2 yrs of high school Spanish, dept consent , no college-level Spanish;

Instructor: STAFF

Description: This course is strictly for students who have less than two years of high school Spanish. Permission numbers are required in order to register for this course. Students should bring their high school transcripts and an ID card to Folwell Hall 34 to obtain a number. Spanish 1001 focuses on the development of communication skills in listening, speaking, reading, and writing. One day a week students will watch "Destinos", an educational television program in Spanish. The text, "?Sabias que...?" 3rd ed., is accompanied by a workbook and audio tapes or CDs that are designed to be studied outside class. In this text students will cover material from the "Leccion Preliminar" through and including "Leccion 8". 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 1002 Beginning Spanish

5 credit(s); prereq 1001 completed at UMNTC, dept consent;

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 1003 Intermediate Spanish

5 credit(s); prereq [1002 or 1022] or EPT placement;

Instructor: STAFF

Description: This course is for those who have completed Spanish 1022 or 1002 with C- or better, or who have taken two or more years of Spanish in high school and have successfully passed the Entrance Proficiency Test (EPT) for this level. In this course, students build on the communicative speaking, writing, listening and reading skills that were acquired in beginning Spanish. The "Conexiones" series, text, lab manual and workbook, are used in class. Class activities are carried out almost entirely in Spanish. For the most part, grammar should be studied at home; a small percentage of class time is intended for grammar instruction and practice. Reading skills are developed through "Conexiones", and writing skills are developed through a variety of writing assignments. Each student will present an oral presentation on a topic related to those covered in "Conexiones" or in class. Because Spanish class is about the only place where a student can practice listening and speaking, class attendance is critical.

Style: 40% Discussion. communicative activities with language
Grading: 30% mid exam, 20% final exam, 15% reports/papers, 10% in-class presentation, 10% class participation, 5% laboratory evaluation, 10% other evaluation. Oral interview
Exam Format: Diverse - essay - fill in blank - short answer

SPAN 1004 Intermediate Spanish

5 credit(s); prereq 1003 or EPT placement; Credit will not be granted if credit has been received for: SPAN 1014;
Instructor: STAFF

Description: This course is for those who have successfully passed Spanish 1003 with a C- or have passed the Entrance Proficiency Test (EPT) for this level. This course is a requirement for Spanish 3015. In this course, you will build on the communicative speaking, writing, listening and reading skills that you acquired during the first three semesters of Spanish. The "Conexiones" series, text, lab manual and workbook, are used in class. Class activities are carried out almost entirely in Spanish. For the most part, grammar should be studied at home; a small percentage of class time is intended for grammar instruction and practice. Reading skills are developed through "Conexiones", and writing skills are developed through process writing, a multi-step writing process which entails composition writing, rewrites, journals, pop-quizzes, etc. You will also prepare and present a debate with other classmates. Because Spanish class is about the only place where you can practice listening and speaking, class attendance is critical. All students in a BA, BFA or BIS degree program in the CLA must take the Graduation Proficiency Test (GPT) as a requirement of the course, unless they have already passed the GPT in this or another language.

Style: 10% Lecture. 60 - 70% discussion; 20 - 30% listening, writing, testing for comprehension and vocabulary, and peer editing
Grading: 50% quizzes, 10% class participation, 5% laboratory evaluation. 15% written composition; 10% round-table discussion; 10% debate
Exam Format: Exams evaluate listening, reading, vocabulary & grammar, writing & culture. A minimum of multiple choice and true/false items; Encourage the use of natural language by using short answers, short/long essays. 1 debate

SPAN 1014 Business Spanish

5 credit(s); prereq 1003 or [dept consent , instr consent];
Credit 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. The "Pasajes" series, 4th ed: "Lengua" and Saldo a favor texts are used. 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. All students in a BA, BFA or BIS degree program in the CLA must take the Graduation Proficiency Test (GPT) as a requirement of the course unless they have already passed the GPT in this or another language.

Style: 10% Lecture. 60% discussion, 30% listening, writing, testing for comprehension and vocabulary, and peer editing, and 10% lecture.

Grading: 40% mid exam, 15% final exam, 15% reports/papers, 10% in-class presentation, 10% class participation, 10% other evaluation. 10% homework

Exam Format: Listening, vocabulary, reading, short essay, grammar

SPAN 1022 Alternate Second-Semester Spanish

5 credit(s); prereq Placement above 1001;
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); prereq 1003 or equiv; Credit will not be granted if credit has been received for: SPAN 1004;
Instructor: STAFF

Description: Course designed to help health care professionals and/or students pursuing health care field communicate with patients who speak Spanish. Basic Medical vocabulary, questions and answers 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 3015 Spanish Composition and Communication

4 credit(s); prereq [1004 or 1014 or 1044], LPE pass;

Instructor: STAFF

Description: Spanish 3015 is the first of the upper division sequence for Spanish majors and minors. To enroll in this class, a student must have successfully completed Spanish 1004 or Spanish 1014 or Spanish 1044 and a "High Pass" on the LPE is highly recommended. Students who have not taken 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 3021 Advanced Communication Skills

4 credit(s); prereq 3015 credit will not be granted if credit received for: Tldo 3021;

Instructor: STAFF

Description: Spanish 3021 is the second of the upper division sequence for majors or minors. Students who received an A or B in Spanish 3015 under the semester system and feel linguistically prepared, have the option to advance to the 31xx series in lieu of 3021; however, they may substitute it later for an elective course. While this class is designed to further develop and strengthen the language skills, it seeks to integrate in a meaningful and "real world" fashion the student's ability to write, speak, read and understand modern Spanish at a level that is expected of majors and minors. Students will write summaries of lectures given by native speakers, two papers and reader's journals. They will give an oral presentation and read a variety of texts. The class will employ diverse learning techniques -- grammar review, audio tape exercises, paired work, small group work, all-class discussions, peer editing, and process writing -- to provide students with the appropriate opportunities to enhance their language skills as they learn academic content through the active use of the Spanish language. This course requires a major time commitment on the part of each student registered.

Style: 25% Lecture, 50% Discussion. 15% peer editing, 10% preparing and presenting projects

Grading: 20% mid exam, 20% quizzes, 10% in-class presentation, 10% class participation. 15% compositions and

portfolio, 10% paper, 10% reader's journal, 25% final paper

Exam Format: Essays and short answers written in Spanish, together with grammar sections.

SPAN 3104W Introduction to the Study of Hispanic Literatures A-F only, 3 credit(s); prereq [3015 with grade of at least B-] or successful completion of 3021; Credit will not be granted if credit has been received for: TLDO 3104; Meets CLE req of Literature Core; meets CLE req of Writing Intensive;

Instructor: STAFF

Description: This course aims to introduce students to basic concepts of literary criticism and analysis through reading, discussing and writing about a variety of texts in Spanish. These will broadly represent a range of genres, periods, and styles. As this a writing-intensive course, it will include regular practice of composition and revision of written Spanish as a means of interpreting and responding to literary texts.

SPAN 3105W Introduction to the Study of Hispanic Cultures 3 credit(s); prereq [3015 with grade of at least B-] or 3021; Meets CLE req of Writing Intensive;

Instructor: STAFF

Description: Student may contact the instructor or department for information.

SPAN 3107W Introduction to the Study of Hispanic Linguistics 3 credit(s); prereq [3015 with grade of at least B-] or 3021; Credit will not be granted if credit has been received for: TLDO 3107; Meets CLE req of Writing Intensive;

Instructor: STAFF

Description: Student may contact the instructor or department for information.

SPAN 3211 Discourses of Imperial Spain, 1492-1800 3 credit(s); prereq 3104; Credit will not be granted if credit has been received for: TLDO 3211;

Instructor: Spadaccini, Nicholas

Description: This course will consider some of the major literary/cultural texts from the early-modern period, especially the sixteenth and seventeenth centuries, also known as the Renaissance and Baroque periods. Presentations and discussions will cover a broad range of materials ranging from writing on the so-called "New World" to representations of issues and topics such as poverty, honor and lineage, history and fiction, love, marriage, subjectivity, and so on. These discussions will be organized around canonical texts such as Fernando de Rojas' *La Celestina*; the anonymous *Lazarillo de Tormes* (which was probably written by an Erasmian humanist); sections of Cervantes's *Don Quijote*, and other texts covering most genres. A detailed syllabus will be made available to students on the first day of classes.

Style: 60% Lecture, 30% Discussion. (Oral presentation of a literary work in a round-table format)

Grading: 30% mid exam, 30% final exam, 20% reports/papers, 10% in-class presentation, 10% class participation.

Exam Format: Essays (textual analysis; discussion of literary issues and problematics) combined with short-answer definitions (i.e., genres, technical language), and identifications

SPAN 3221 Latin American Colonial Discourses: Empire and Early Modernity

3 credit(s); prereq 3104 or 3105;

Instructor: STAFF

Description: The goal of this course is to provide the student with a firm foundation in the socio-historic context of the Colonial Period including the central preoccupations of the time, a knowledge of the terms in which these concerns were addressed (and by whom), and an idea of the major scholarly debates today regarding Colonial writings in Latin America. To this end, we will explore Latin American texts (in the broadest sense), discourses, and important figures from pre-contact, ?discovery,? conquest, and the Baroque ? leading to Independence - with an emphasis on the context of New Spain (today's Mexico). These discussions will be organized around texts such as Indigenous codices; the letters of Christopher Columbus and Hernan Cortes; the encyclopedic works of Bernardino de Sahagun; the

controversial writings of Bartolome de las Casas; poetry and other writings by the 10th muse, Sor Juana Ines de la Cruz, and the criollo posturing of the savant Carlos de Sigüenza y Gongora. Additionally, we will discuss the iconic figures of La Malinche and La Virgen de Guadalupe. Some of the concepts / issues to be addressed in the analysis of these texts are: Physical and Epistemological Violence, Divergent Agendas and Interpretations, Resistance and Adaptations, and Silences and Excesses. All writing assignments and class lecture/discussion are in Spanish.

Style: 20% Lecture, 80% Discussion.

Grading: 20% reports/papers, 10% special projects, 30% journal, 10% in-class presentation, 30% class participation. Participation 30%, Intellectual Journal 30%, Oral Presentations/Discussion Leader 10%, Bibliographic Research Project 10%, Final Research Paper 20%

SPAN 3401 Latino Immigration and Community Service
3 credit(s); prereq [3015 with grade of at least B-], LPE high pass; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Cultural Diversity Theme;

Instructor: Ganley, Kathleen Marie

Description: Student may contact the instructor or department for information.

SPAN 3404 Medical Spanish and Community Health Service
3 credit(s); prereq 3015 with grade of at least B- or [1044, high pass on at least three sections of LPE];

Instructor: Lopez, Maria Emilce

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 3501 Roots of Modern Spain and Latin America
3 credit(s); prereq 3105W; Credit will not be granted if credit has been received for: SPAN 3501H;

Instructor: Calvo, Maria Antonia

Description: This course offers an historical overview of the cultural, political and economic development of Spain and Latin America from its origins to the beginning of the 19th century. Topics to be discussed include Hispania under the Roman Empire, the coexistence of Jews, Christians and Muslims in Medieval Spain, Mexican and indigenous pre-Hispanic cultures, the arrival of Europeans to the New World, culture in the Golden Age and the crisis of the Spanish Empire. Architecture, historic documents, music, and the visual arts will be integrated to facilitate the students' knowledge of the cultural diversity that is found within the Hispanic world. The goal is to stimulate critical thinking by the students and provide them with an understanding of the specific identities of the various geographic regions as well as the common historical and cultural roots that allow us to speak of a Spanish civilization.

Style: 50% Lecture, 50% Discussion.

Grading: 20% final exam, 50% reports/papers, 30% class participation.

Exam Format: Essay and short answer

SPAN 3510 Issues in Hispanic Cultures: Narrative Cntry/City in Mod/Contemp Span Penin Cul

A-F only, 3 credit(s), max credits 9, 3 completions allowed; prereq 3105W credit will not be granted if credit received for: Tldo 3301, 3302, 3311, 3312, 3313, 3314, 3514, 3321,

3516, 3513, 3515, 3517;

Instructor: Arozamena, Vanesa

Description: Student may contact the instructor or department for information.

SPAN 3512 Modern Latin America

A-F only, 3 credit(s); prereq 3105W;

Instructor: Chavana, Gerardo Paul

Description: Student may contact the instructor or department for information.

SPAN 3701 Structure of Spanish: Phonology and Phonetics
3 credit(s); prereq 3107; Credit will not be granted if credit has been received for: SPAN 3701H;

Instructor: Face, Timothy L

Description: This course aims to provide undergraduate students with an understanding of the basic concepts of phonetics and phonology and to teach them to apply these concepts to Spanish. The course will be both conceptual and practical. The practical component will involve the students using the concepts learned in class to improve their own pronunciation of Spanish. Students will acquire skills in recognizing, producing, transcribing and describing in linguistic terms the sounds of Spanish and in understanding and analyzing the Spanish sound system. The conceptual component will involve understanding the relationship between sounds in the Spanish phonological system and studying other factors (linguistic, social, etc.) that influence this system.

Style: 50% Lecture, 30% Discussion. group activities

Exam Format: mixed format

SPAN 3703 Origins and History of Spanish and Portuguese
3 credit(s); prereq 3107 or instr consent ;

Instructor: Ocampo, Francisco Antonio

Description: This course constitutes an introduction to the origins and history of the Spanish language. The focus of the course is modern Spanish and its relationship with Latin. Phonetic, morphologic, syntactic, lexical, and sociolinguistic aspects will be included. Intermediate stages of evolution will not be considered. Teaching methods include: lectures, group activities, problem solving assignments, discussion. Previous knowledge of Latin is not necessary. Course objectives: Give basic theoretical tools to make students understand language change; Give background knowledge about the history of Spanish; Improve the students' own knowledge of the Spanish language; Inform about the linguistic rules that governed the series of changes from Latin to Spanish. Textbook: Resnick, Melvyn. Introduccion a la historia de la lengua espa?ola. Georgetown University Press, 1981.

Style: 40% Lecture, 20% Discussion. Group work

Grading: 30% mid exam, 30% final exam, 20% in-class presentation, 10% class participation, 10% problem solving.

Exam Format: Essay

SPAN 3705 Semantics and Pragmatics of Spanish

3 credit(s); prereq 3107; Credit will not be granted if credit has been received for: SPAN 3705H;

Instructor: STAFF

Description: Sense relations. Semantics and grammar. Theme, rhyme, and focus. Spanish lexicon. Context, style, culture. Communicative competence. Speech acts.

SPAN 3800 Film Studies in Spanish: Latin American Cinema

A-F only, 3 credit(s), max credits 9, 3 completions allowed; prereq 3104W or 3105W;

Instructor: Forcinito, Ana

Description: Student may contact the instructor or department for information.

SPAN 3910 Topics in Spanish Peninsular Literature

A-F only, 3 credit(s), max credits 9, 3 completions allowed; prereq 3104;

Instructor: STAFF

Description: Topic for Spring 2008: ?SPAIN? AND ?ISLAM?

This course will examine the complex interactions between ?Spain? and ?Islam? from the Middle Ages to the present day.

The course will explore, in part, the multifaceted meanings, moments and experiences encompassed under these abstract terms; in part, too, the interplay of national, ethnic, cultural and religious factors in constructing such complex identities as mozarabes, muladies, mudejares, or moriscos. Topics to be discussed may include: the cultural history of al-Andalus and its legacies in Europe and the Middle East; forms of encounter along the Christian-Muslim "frontier" (a term first used in this sense in medieval Iberia); early modern notions of Christian Reconquista and Spanish nationhood and empire; economies of gender and identity in the "Moorish novel"; Spanish Orientalism in 19th-century Romantic literature; 20th-century historiography of medieval Spain; and Maghrebi immigration in the Spanish imaginary as portrayed in late 20th-century periodicals and films. Evaluation will be based on midterm and final exams, a short writing assignment, a research paper, as well as active participation in class discussion. This course is taught in Spanish. Texts: ? Constable, Olivia Remie, ed. *Medieval Iberia: Readings from Christian, Muslim, and Jewish Sources*. Philadelphia: U of Pennsylvania P, 1997. ISBN # 978-0812215694. ? Anonimo. *El Abencerraje*. Ed. Francisco Lopez Estrada. Madrid: Catedra. ISBN: 84-376-0238-6. ? Cadalso, Jose. *Cartas marruecas*. Madrid: Catedra. ISBN 84-376-0145-2. Other course readings will be assigned on the course web site as e-texts or as handouts.

SPAN 3920 Topics in Spanish-American Literature

A-F only, 3 credit(s), max credits 9, 3 completions allowed; prereq 3104; Credit will not be granted if credit has been received for: SPAN 3920H;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

SPAN 3970 Directed Studies

1-4 credit(s), max credits 9, 3 completions allowed; prereq instr consent , dept consent , college consent credit will not be granted if credit received for: Tido 3303, Tido 3315, Tido 3503, Tido 3970, Tido 3217;
Instructor: STAFF
Description: Guided individual reading or study. Consult with the Undergraduate Advisor: Margaret Demmessie.

SPAN 3972W Graduation Seminar

A-F only, 3 credit(s); prereq 31 cr of 3xxx, instr consent ; Credit will not be granted if credit has been received for: SPAN 3972V; Meets CLE req of Writing Intensive;
Instructor: O'Connell, Joanna
Description: You will write a 20-25 page RESEARCH paper in either Spanish or Portuguese. We will meet as a group at various times during the semester to work together on the stages of the project: selecting and refining a topic; research and compiling a bibliography; outlines; drafts and revisions; the final version. There will be some weeks when we do not meet as a class, but you will have private appointments with the instructor. While each person will design an individual project, you will also work together in small groups during our class meetings for feedback on each stage of the process. The role of the instructor in the class is to guide you through the process of research and writing and to evaluate the final version. You are strongly encouraged to seek intellectual guidance on your topic from any member of the faculty of this department (or elsewhere if appropriate). Seeking assistance in spelling, grammar, and editing of the final versions will be your responsibility. Please bring a written statement of your topic or question with some very preliminary ideas about what you will need to do in order to complete the project to the first day of class. Appropriate topics are those that both interest you and for which you have the necessary background and preparation. Please consult me or other faculty about your topic BEFORE the class begins.
Style: This is a workshop. Therefore expect some discussion and a lot of small group work when we meet in class.
Grading: 70% reports/papers, 30% special projects. Participation includes drafting thesis statement, bibliography, outline, etc for in-class workshops.
Exam Format: no exam

SPAN 3972W Graduation Seminar

A-F only, 3 credit(s); prereq 31 cr of 3xxx, instr consent ; Credit will not be granted if credit has been received for: SPAN 3972V; Meets CLE req of Writing Intensive;
Instructor: Ramos-Garcia, Luis A
Description: Student may contact the instructor or department for information.

SPAN 4001 Beginning Spanish

2 credit(s); prereq Grad student;
Instructor: Corbin, Megan L
Description: Student may contact the instructor or department for information.

SPAN 4003 Intermediate Spanish

2 credit(s); prereq Grad student;
Instructor: Dorow, Linda
Description: Student may contact the instructor or department for information.

SPAN 4003 Intermediate Spanish

2 credit(s); prereq Grad student;
Instructor: Trevathan, John H
Description: Student may contact the instructor or department for information.

SPAN 4004 Intermediate Spanish

2 credit(s); prereq Grad student;
Instructor: Benegas, Michelle Elizabeth
Description: Student may contact the instructor or department for information.

SPAN 4022 Alternate Second-Semester Spanish

2 credit(s); prereq Grad student;
Instructor: Brasileiro, Marcus Vinicius Camara
Description: Student may contact the instructor or department for information.

SPAN 4022 Alternate Second-Semester Spanish

2 credit(s); prereq Grad student;
Instructor: Viedma, Pablo
Description: Student may contact the instructor or department for information.

SPAN 5106 The Literature of the Reconquest and Feudal Spain

3 credit(s); prereq three 3xxx or 5xxx literature courses in Spanish;
Instructor: STAFF
Description: Topic: Conquest & Trauma in Iberian Literature and Culture This class explores through literary and historical texts how conquest and trauma have defined Iberian Medieval Studies. The class, like the Iberian Middle Ages, will be framed by readings that represent and question the two dates that have traditionally been used to demarcate the Spanish Middle Ages, 711 and 1492. In the first part of the class we will focus on historical and literary accounts of the arrival of Muslims to the Peninsula (including Arab and Alfonsine histories, romances and Pedro de Corral's *Cronica Sarracina*). We will read these texts through the lens of recent theoretical work that explores modes of representation for violence and trauma (incl. Cathy Caruth). The Spanish epic, the *Cantar de Mio Cid* will serve as an intermediary reading that connects (or disconnects) discussions of trauma and invasion with those of conquest and memory, which will be the dominant themes of the second half of the class. During the final weeks we will engage with texts written by and about 1492 as a date of rupture marking the expulsion of non-Christian subjects (Muslims and Jews) from Spain. Fifteenth- and sixteenth-century texts written by moriscos and Sephardic Jews in diaspora (including Arabic and cancionero poetry and the history of Eliyahu Capsali) that discuss the Expulsion, as well as modern studies of it (including those of Elizabeth Perry, H.P. Harvey, Gil Andjar) will be central in our discussion of memory and trauma.

SPAN 5526 Colonial Discourse in Spanish American Writing

3 credit(s); prereq Three 3xxx or 5xxx literature courses in

Spanish;**Instructor:** STAFF

Description: Using an interdisciplinary approach to achieve a better understanding of this multidimensional social conflict, the course examines the role of colonial discourse as producer of the epistemic colonial difference, and explores the legacies of colonialism. Students will be expected to focus on and to think about the organizational mechanisms through which aural and visual practices mediate reality in Colonial Latin America. Students will learn to be critical readers by considering how cultural texts may be historically determined and by exploring how individuals may shape a particular cultural theme in a variety of manners. It will focus on critical readings and discussion of cultural artifacts, texts and documents of Colonial Latin America, including material pertaining to the aural and visual production of the period, European and indigenous accounts of the conquest, as well as indigenous, African, criollo, mestizo and women writings during the colony. Concentration will center on the textual strategies, topics, world views, motivations, projects and expectations explicit or implicit in the texts, their significance at the time, and their importance for understanding the formation of what we know as Latin America today. The course also is devoted to the conquest of Latin America by analyzing the role of colonial discourse and the legacies of colonialism in the region. Students will deal with different theoretical approaches deriving from the humanities and the social sciences.

Style: All coursework, with the exception of certain supplementary readings, will be in Spanish.

SPAN 5527 Nineteenth Century Latin America: Enlightened Thought, Nation Building, Literacy, Cultural Discourse
3 credit(s); prereq Three [3xxx or 5xxx] literature courses in Spanish;

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, deteniendonos, 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 5711 The Structure of Modern Spanish: Phonology
3 credit(s); prereq 3701, two 3xxx or 5xxx linguistics courses in Spanish or instr consent ;

Instructor: Face, Timothy L

Description: This course provides an investigation of the Spanish sound system and considers some of the major topics in Spanish phonology from theoretical and experimental perspectives. We will review the traditional articulatory descriptions of Spanish sounds, learn the basics of the acoustic nature of these sounds, and see how these form the basis for the building blocks of modern phonological theory. We will survey the major phonological theories that have been used and also consider the ways in which experimentation can expand upon these theoretical approaches. Coursework will consist of two exams, occasional homework assignments, and an annotated bibliography dealing with an area of Spanish phonology of the student's choosing.

Exam Format: Essay, problem solving

SPAN 5714 Theoretical Foundations of Spanish Syntax
3 credit(s); prereq 5713 or instr consent ;

Instructor: Ocampo, Francisco Antonio

Description: The structure of modern Spanish: Syntax. The course discusses linguistic notions present in the syntax of Spanish, such as: discrete and prototypic categorization, grammaticalization, grammatical relations, flow of information,

transitivity. The discussion is centered in the possible explanatory role of these notions vis-a-vis syntactic phenomena in Spanish, such as: word order, hypotaxis, parataxis, clitics, discourse particles. The content is theoretical and students are expected to come to class with an adequate knowledge of Spanish grammar. The target audience are graduate students. Required readings: Taylor. *Linguistic Categorization*; and excerpts from various authors.

Style: 60% Lecture, 40% Discussion.**Grading:** 30% mid exam, 30% final exam, 40% problem solving.**Exam Format:** essay**SPAN 5970 Directed Readings**

1-4 credit(s), max credits 9, 9 completions allowed; prereq MA or PhD candidate, instr consent, dept consent, college consent;

Instructor: STAFF**Description:****SPAN 5990 Directed Research**

1-4 credit(s), max credits 9, 9 completions allowed; prereq instr consent, dept consent, college consent;

Instructor: O'Connell, Joanna**Description:** Student may contact the instructor or department for information.**SPAN 5990 Directed Research**

1-4 credit(s), max credits 9, 9 completions allowed; prereq instr consent, dept consent, college consent;

Instructor: Ferran, Ofelia**Description:** Student may contact the instructor or department for information.**SPAN 5990 Directed Research**

1-4 credit(s), max credits 9, 9 completions allowed; prereq instr consent, dept consent, college consent;

Instructor: Ocampo, Francisco Antonio**Description:** Student may contact the instructor or department for information.**SPAN 5990 Directed Research**

1-4 credit(s), max credits 9, 9 completions allowed; prereq instr consent, dept consent, college consent;

Instructor: Spadaccini, Nicholas**Description:** Student may contact the instructor or department for information.**SPAN 5990 Directed Research**

1-4 credit(s), max credits 9, 9 completions allowed; prereq instr consent, dept consent, college consent;

Instructor: Klee, Carol Anne**Description:** Student may contact the instructor or department for information.**SPAN 5990 Directed Research**

1-4 credit(s), max credits 9, 9 completions allowed; prereq instr consent, dept consent, college consent;

Instructor: Ramos-Garcia, Luis A**Description:** Student may contact the instructor or department for information.**SPAN 5990 Directed Research**

1-4 credit(s), max credits 9, 9 completions allowed; prereq instr consent, dept consent, college consent;

Instructor: Face, Timothy L**Description:** Student may contact the instructor or department for information.**SPAN 5990 Directed Research**

1-4 credit(s), max credits 9, 9 completions allowed; prereq instr consent, dept consent, college consent;

Instructor: Forcinito, Ana**Description:** Student may contact the instructor or department for information.

SPAN 5990 Directed Research

1-4 credit(s), max credits 9, 9 completions allowed; prereq instr consent, dept consent, college consent;
Instructor: Hanneken,Jaime Elizabeth
Description: Student may contact the instructor or department for information.

SPAN 5990 Directed Research

1-4 credit(s), max credits 9, 9 completions allowed; prereq instr consent, dept consent, college consent;
Instructor: Marrero-Fente,Raul A
Description: Student may contact the instructor or department for information.

SPAN 8900 Spanish Seminar

3 credit(s), max credits 9, 3 completions allowed; prereq Span 5xxx series required for MA or instr consent ;
Instructor: Kaminsky,Amy K
Description: Student may contact the instructor or department for information.

Spanish and Portuguese

34 Folwell Hall

SPPT 5999 The Teaching of College-Level Spanish: Theory and Practice

3 credit(s); prereq Grad or instr consent ;
Instructor: Villar,Susan McMillen
Description: The main purpose of SPPT 5999 is to guide Graduate Instructors in the Department of Spanish and Portuguese Studies as they engage in reflective foreign language teaching. Readings and discussions will focus on second language acquisition theory as applied to foreign language instruction at the college level as well as on an analysis of how current theory translates into practice. The latter will be accomplished through a series of hands-on ?practical application? activities. In addition to coming to class prepared to discuss assigned readings, students will be expected to complete three class observation reports, biweekly teaching journals, a pedagogical materials portfolio, written exams, and a course project.

Speech-Language-Hearing Sciences

115 Shevlin Hall

SLHS 1301W The Physics and Biology of Spoken Language

4 credit(s); Meets CLE req of Physical Science/Lab Core; meets CLE req of Writing Intensive;
Instructor: STAFF
Description: Introduction to the physics and biology of spoken language; the talker's production of sounds and words; transmission of sound; the listener's perception of what was heard; and computer analysis and synthesis of speech. Lectures will be supported by computer animations that show, in slow motion, rapidly changing dynamic events in acoustics, by on-line computer analysis of speech, and by laboratory sessions. Objectives: 1) Provide students who have a limited physics and biology background with an introduction to the physics and biology of spoken language, a field that is not only interesting, but of considerable social importance because of the dominant role that speech, language, and hearing play in society; and 2) Introduce students to recent technological advances associated with spoken language such as digital signal processing systems and speech recognition techniques. The trek through history will begin with Kratzenstein, who designed the first speech synthesizer in 1179, and end with an examination of the ways in which current research from disciplines such as physics, biology, psychology, linguistics, speech and hearing science, and so forth

contributes to our understanding of the physics and biology of spoken language.

Style: 60% Lecture, 40% Discussion.

Grading: 50% mid exam, 25% final exam, 25% laboratory evaluation.

Exam Format: multiple choice

SLHS 1302 Rate Your World: Quantifying Judgments of Human Behavior

3 credit(s); Meets CLE req of Mathematical Thinking Core;
Instructor: STAFF

Description: This course will allow students with little mathematics background to learn basic quantitative methods as they apply to measuring human behavior. Introductory mathematical principles will be applied to measuring behaviors such as: rating personality and attention, evaluating infant speech perception, studying opinion polls, measuring voice and sound, and quantifying speech recognition through cochlear implants. Material will be presented using a mixture of lecture and hands-on activities in class. Mid-term and final examinations will focus on lecture material. In-class activities will be analyzed and written into short reports.

Style: 40% Lecture, 30% Discussion, 30% Laboratory.

Grading: 25% mid exam, 25% final exam, 50% reports/papers.

SLHS 1302 Rate Your World: Quantifying Judgments of Human Behavior

3 credit(s); Meets CLE req of Mathematical Thinking Core;
Instructor: Glaze,Leslie

Description: This course allows students to develop quantitative mathematical and measurement skills by observing human behavior. Students will use basic statistics to measure, rate, rank, compare, table, plot, and analyze behavioral data. Using examples from opinion polls, tests of memory and learning measures, and perceptual judgments of speech, voice, hearing, and taste, students will collect and manipulate categorical, ordinal, and interval data. Lecture material will include examples from current social, political, economic, artistic, sports, and university events. Students will conduct hands-on in-class activities to acquire useful everyday calculations such as fuel economy, interest rates, percentage change, and estimating retirement savings. Throughout the course, students will use electronic student response systems to provide a highly interactive class experience. This course will allow students with little mathematics background to learn basic quantitative methods as they apply to measuring human behavior.

Style: 40% Lecture, 30% Discussion, 30% Laboratory.

Grading: 25% final exam, 20% reports/papers, 25% quizzes, 30% written homework.

Exam Format: short answer

SLHS 1401 Communication Differences and Disorders

3 credit(s); Credit will not be granted if credit has been received for: SLHS 3401; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;
Instructor: STAFF

Description: Human communication is a complex interpersonal process that involves speech, language, and hearing. These three aspects of communication are made up of neurological, cognitive, sensory, anatomical, and physiological components, which come together and develop within social contexts. Functional communication skills are necessary to successfully participate in all aspects of society and any breakdown in speech, language or hearing will have an impact on one's daily life-at home, school, work, and/or community settings. In order to determine if a communication disorder exists, we need to have a clear understanding of what constitutes "normal" communication. The definition of what is normal or acceptable speech, language, and hearing behavior may vary according to age, gender, language or dialectal background, and culture. Thus, these factors must be considered when identifying and treating communication disorders. This course will survey a range of communication disorders affecting children and adults, and will explore the origin, assessment, and treatment of these disorders within the context of normal human variation. Reference to the professional fields of speech-language pathology and audiology

will be given throughout the semester.

SLHS 1401 Communication Differences and Disorders
3 credit(s); Credit will not be granted if credit has been received for: SLHS 3401; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;

Instructor: Kohnert,Kathryn

Description: Functional communication skills are essential to successful participation in all aspects of society and any breakdown in speech, language, or hearing ability will affect day-to-day living substantially. Normal speech, language and hearing abilities rely on basic neurological, cognitive, sensory, anatomical and physiological systems which come together and develop within social environments. Damage to any of these systems may result in a communication disorder. This course will survey a range of communication disorders affecting children and adults, and will explore the origin, consequences, assessment, and treatment of these disorders within the context of normal human variation.

Style: 70% Lecture, 20% Film/Video, 10% Small Group Activities.

Grading: 40% mid exam, 50% final exam, 10% attendance. The completion of optional learning activities/assignments is available to students who would like to earn extra credit.

Exam Format: T/F, Multiple Choice, Short essay

SLHS 3302 Anatomy and Physiology of the Speech and Hearing Mechanisms

3 credit(s);

Instructor: STAFF

Description: Student may contact the instructor or department for information.

SLHS 3303 Language Acquisition and Science

3 credit(s); Meets CLE req of Social Science Core;

Instructor: Reichle,Joe E

Description: Course Objectives: At the completion of this 3-credit course, students should be able to: 1. Describe the emergence of basic communicative and conversational functions 2. Describe the development of vocal and gestural communicative means among infants and toddlers 3. Describe quantitative and qualitative aspects of vocabulary acquisition 4. Describe the development of pragmatic skills in the preschool and school years 5. Describe the development of semantic skills in the preschool and school years 6. Describe the development of morphology and syntax in the preschool/school years 7. Identify the major theoretical approaches to language acquisition 8. Be familiar with frequently occurring areas of communicative differences, delays and disorders

Style: 100% Lecture.

Grading: 4% quizzes. Four exams that are weighted equally.

SLHS 3305W Speech Science

3 credit(s); Meets CLE req of Writing Intensive;

Instructor: Sasisekaran,Jayanthi

Description: Student may contact the instructor or department for information.

SLHS 3401 Communication Differences and Disorders

3 credit(s); Credit will not be granted if credit has been received for: SLHS 1401; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;

Instructor: STAFF

Description: Human communication is a complex interpersonal process that involves speech, language, and hearing. These three aspects of communication are made up of neurological, cognitive, sensory, anatomical, and physiological components, which come together and develop within social contexts. Functional communication skills are necessary to successfully participate in all aspects of society and any breakdown in speech, language or hearing will have an impact on one's daily life-at home, school, work, and/or community settings. In order to determine if a communication disorder exists, we need to have a clear understanding of what constitutes "normal" communication. The definition of what is normal or acceptable speech, language, and hearing behavior may vary according to age, gender,

language or dialectal background, and culture. Thus, these factors must be considered when identifying and treating communication disorders. This course will survey a range of communication disorders affecting children and adults, and will explore the origin, assessment, and treatment of these disorders within the context of normal human variation. Reference to the professional fields of speech-language pathology and audiology will be given throughout the semester.

SLHS 3401 Communication Differences and Disorders

3 credit(s); Credit will not be granted if credit has been received for: SLHS 1401; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;

Instructor: Kohnert,Kathryn

Description: Functional communication skills are essential to successful participation in all aspects of society and any breakdown in speech, language, or hearing ability will affect day-to-day living substantially. Normal speech, language and hearing abilities rely on basic neurological, cognitive, sensory, anatomical and physiological systems which come together and develop within social environments. Damage to any of these systems may result in a communication disorder. This course will survey a range of communication disorders affecting children and adults, and will explore the origin, consequences, assessment, and treatment of these disorders within the context of normal human variation.

Style: 70% Lecture, 20% Film/Video, 10% Small Group Activities.

Grading: 40% mid exam, 50% final exam, 10% attendance. The completion of optional learning activities/assignments is available to students who would like to earn extra credit.

Exam Format: T/F, Multiple Choice, Short essay

SLHS 3402W Major Project in Speech and Hearing Science

S-N only, 3 credit(s); prereq Jr or sr CDis or SLHS major; Meets CLE req of Writing Intensive;

Instructor: Kennedy,Mary R T

Description: This course is a workshop wherein you will write your Senior Paper, as required by the College of Liberal Arts at the University of Minnesota. The primary goals of this course are to guide you through the process of writing in SLHS, while experiencing the relevance and importance of the topic you have chosen. This is a writing intensive course and as such, you will complete your ?senior? project paper. Our philosophy is that all writers, no matter how experienced, benefit from the content covered in this course. We have broken down the task of writing into manageable steps that should prove helpful to your senior project and all future writing endeavors. What you write about will be reflective of your work for this course. There are two very different kinds of activities over the course of the semester: 1) Select a relevant topic for scientific inquiry, and review and critique the research literature in a paper. 2) Partner with a community organization in a service learning (SL) experience during the semester. Therefore, you will engage in two types of writing: technical, scientific writing and reflective writing.

Style: 20% Lecture, 30% Discussion, 30% Small Group Activities, 20% Service Learning.

Grading: 60% reports/papers, 10% journal, 10% class participation. 20% based on meeting the service learning requirements

SLHS 3555H Honors Thesis

A-F only, 1-2 credit(s), max credits 2, 1 completion allowed; prereq See dir of undergrad studies for [thesis adviser, forms];

Instructor: Carney,Arlene 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; prereq See dir of undergrad studies for [thesis adviser, forms];

Instructor: Angerman,Sarah Kay

Description: Student may contact the instructor or department for information.

SLHS 3555H Honors Thesis

A-F only, 1-2 credit(s), max credits 2, 1 completion allowed;
prereq See dir of undergrad studies for [thesis adviser, forms];

Instructor: Deruiter, Mark

Description: Student may contact the instructor or department for information.

SLHS 3555H Honors Thesis

A-F only, 1-2 credit(s), max credits 2, 1 completion allowed;
prereq See dir of undergrad studies for [thesis adviser, forms];

Instructor: Schlauch, Robert S

Description: Student may contact the instructor or department for information.

SLHS 3555H Honors Thesis

A-F only, 1-2 credit(s), max credits 2, 1 completion allowed;
prereq See dir of undergrad studies for [thesis adviser, forms];

Instructor: Windsor, Jennifer

Description: Student may contact the instructor or department for information.

SLHS 3555H Honors Thesis

A-F only, 1-2 credit(s), max credits 2, 1 completion allowed;
prereq See dir of undergrad studies for [thesis adviser, forms];

Instructor: Reichle, Joe E

Description: Student may contact the instructor or department for information.

SLHS 3555H Honors Thesis

A-F only, 1-2 credit(s), max credits 2, 1 completion allowed;
prereq See dir of undergrad studies for [thesis adviser, forms];

Instructor: Kennedy, Mary R T

Description: Student may contact the instructor or department for information.

SLHS 3555H Honors Thesis

A-F only, 1-2 credit(s), max credits 2, 1 completion allowed;
prereq See dir of undergrad studies for [thesis adviser, forms];

Instructor: Nelson, Peggy B

Description: Student may contact the instructor or department for information.

SLHS 3555H Honors Thesis

A-F only, 1-2 credit(s), max credits 2, 1 completion allowed;
prereq See dir of undergrad studies for [thesis adviser, forms];

Instructor: Kohnert, Kathryn

Description: Student may contact the instructor or department for information.

SLHS 3555H Honors Thesis

A-F only, 1-2 credit(s), max credits 2, 1 completion allowed;
prereq See dir of undergrad studies for [thesis adviser, forms];

Instructor: 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;
prereq See dir of undergrad studies for [thesis adviser, forms];

Instructor: Watson, Peter J

Description: Student may contact the instructor or department for information.

SLHS 3555H Honors Thesis

A-F only, 1-2 credit(s), max credits 2, 1 completion allowed;
prereq See dir of undergrad studies for [thesis adviser,

forms];

Instructor: Zhang, Yang

Description: Student may contact the instructor or department for information.

SLHS 3555H Honors Thesis

A-F only, 1-2 credit(s), max credits 2, 1 completion allowed;
prereq See dir of undergrad studies for [thesis adviser, forms];

Instructor: Rao, Aparna

Description: Student may contact the instructor or department for information.

SLHS 3555H Honors Thesis

A-F only, 1-2 credit(s), max credits 2, 1 completion allowed;
prereq See dir of undergrad studies for [thesis adviser, forms];

Instructor: Sasisekaran, Jayanthi

Description: Student may contact the instructor or department for information.

SLHS 3994 Directed Research

1-12 credit(s), max credits 24; prereq Undergrad doing research;

Instructor: Carney, Arlene Earley

Description: Student may contact the instructor or department for information.

SLHS 3994 Directed Research

1-12 credit(s), max credits 24; prereq Undergrad doing research;

Instructor: Angerman, Sarah Kay

Description: Student may contact the instructor or department for information.

SLHS 3994 Directed Research

1-12 credit(s), max credits 24; prereq Undergrad doing research;

Instructor: Deruiter, Mark

Description: Student may contact the instructor or department for information.

SLHS 3994 Directed Research

1-12 credit(s), max credits 24; prereq Undergrad doing research;

Instructor: Schlauch, Robert S

Description: Student may contact the instructor or department for information.

SLHS 3994 Directed Research

1-12 credit(s), max credits 24; prereq Undergrad doing research;

Instructor: Windsor, Jennifer

Description: Student may contact the instructor or department for information.

SLHS 3994 Directed Research

1-12 credit(s), max credits 24; prereq Undergrad doing research;

Instructor: Reichle, Joe E

Description: Student may contact the instructor or department for information.

SLHS 3994 Directed Research

1-12 credit(s), max credits 24; prereq Undergrad doing research;

Instructor: Kennedy, Mary R T

Description: Student may contact the instructor or department for information.

SLHS 3994 Directed Research

1-12 credit(s), max credits 24; prereq Undergrad doing research;

Instructor: Nelson, Peggy B

Description: Student may contact the instructor or department

for information.

SLHS 3994 Directed Research

1-12 credit(s), max credits 24; prereq Undergrad doing research;

Instructor: Kohnert,Kathryn

Description: Student may contact the instructor or department for information.

SLHS 3994 Directed Research

1-12 credit(s), max credits 24; prereq Undergrad doing research;

Instructor: Munson,Benjamin

Description: Student may contact the instructor or department for information.

SLHS 3994 Directed Research

1-12 credit(s), max credits 24; prereq Undergrad doing research;

Instructor: Watson,Peter J

Description: Student may contact the instructor or department for information.

SLHS 3994 Directed Research

1-12 credit(s), max credits 24; prereq Undergrad doing research;

Instructor: Zhang,Yang

Description: Student may contact the instructor or department for information.

SLHS 3994 Directed Research

1-12 credit(s), max credits 24; prereq Undergrad doing research;

Instructor: Rao,Aparna

Description: Student may contact the instructor or department for information.

SLHS 3994 Directed Research

1-12 credit(s), max credits 24; prereq Undergrad doing research;

Instructor: Sasisekaran,Jayanthi

Description: Student may contact the instructor or department for information.

SLHS 4301 Introduction to the Neuroscience of Human Communication

3 credit(s);

Instructor: Kennedy,Mary R T

Description: This course is intended to provide students with an overview of neuroanatomy, neurophysiology, and neuroscience pertinent to processes of human communication behavior. Although it is intended for students who are majoring in Speech-Language-Hearing Sciences, students with some science background are welcome to enroll. Emphasis is on structural and functional relationships necessary for speech, language and hearing, although a general knowledge of the nervous system is first required. Topics include: gross anatomy of central and peripheral nervous systems; basic principles of neuroscience; neural embryological development; neuroplasticity; motor and sensory systems; visual and auditory systems; and hemisphere and cortical organization. An overview of current diagnostic techniques and examples of clinical neuropathologies that result in communication disorders are also introduced.

Style: 70% Lecture, 10% Discussion, 20% Laboratory.

Grading: 20% mid exam, 25% final exam, 25% quizzes, 10% laboratory evaluation, 20% other evaluation. 2nd midsemester exam

Exam Format: multiple choice, T/F, short essay, labeling, fill-in-blank

SLHS 4402 Assessment and Treatment in Speech-Language Pathology

A-F only, 3 credit(s); prereq [[1401 or 3401], 3303, 3304, Concurrent registration is required (or allowed) in 4301, 4801] or grad student or instr consent credit will not be

granted if credit already received for: SLHS 5402;

Instructor: Kohnert,Kathryn

Description: Student may contact the instructor or department for information.

SLHS 4802 Rehabilitative Audiology

3 credit(s); prereq [3305, 4801] or [CDis 3305, CDIs 4801] or instr consent ;

Instructor: Rao,Aparna

Description: This course will provide a basic orientation to audiologic (re)habilitation for children, adults and elderly adults who are hard of hearing or deaf. Topics will include impact of hearing loss on the individual and family, assessment procedures used to plan effective interventions and case studies. (Re)habilitation strategies covered will include amplification, assistive listening devices, cochlear implants, counseling, communication training, and educational/ vocational programs. Students will be required to attend four 1-hour lab sessions which will be scheduled during the first week of classes based on the students' and TA's schedules.

Style: 50% Lecture, 15% Film/Video, 15% Discussion, 10% Small Group Activities, 10% Demonstration.

Grading: 20% mid exam, 20% final exam, 20% special projects, 20% quizzes, 20% laboratory evaluation.

SLHS 5401 Counseling and Professional Issues

3 credit(s); prereq [[concurrent enrollment 8720 or concurrent enrollment 8820], grad student] recommended;

Instructor: Deruiter,Mark

Description: Basic counseling principles and current professional issues in communication disorders. Application of counseling theory to clinical practice. Analysis of regulation, practice, and future direction of communication disorders.

Style: 80% Lecture, 20% Discussion.

Grading: 40% reports/papers, 40% quizzes, 20% problem solving.

Exam Format: Multiple choice/short essay

SLHS 5501 Fluency and Phonological Disorders

3 credit(s); prereq Grad student or instr consent ;

Instructor: Munson,Benjamin

Description: This course discusses the nature, assessment, and treatment of (a) phonological disorders in children (including articulation disorders and childhood apraxia of speech), and (b) fluency disorders in children and adults. At the conclusion of the course, students will be able to conduct supervised assessment and treatment of phonological disorders in children, and supervised assessment and treatment of fluency disorders in children and adults. This course is primarily concerned with functional disorders, i.e., phonological and fluency disorders of an unknown etiology. Disorders with a known organic etiology (e.g., hearing impairment, neuromotor dysfunction, craniofacial anomaly, neurogenic stuttering) will be mentioned briefly, and will be covered in more depth in other courses. Course Objectives. At the conclusion of this course, students will be able to: (1) Describe the normal development of fluency and phonology (2) Describe atypical phonological development (3) Describe the speech of people with fluency disorders (4) Administer and interpret assessments of phonology in children (5) Administer and interpret assessments of fluency in children and adults (6) Select treatment goals and behavioral objectives for children with phonological disorders (7) Select treatment goals and behavioral objectives for children and adults with fluency disorders (8) Develop therapy materials to implement treatment goals and objectives

Style: 70% Lecture, 30% Small Group Activities.

Grading: 50% mid exam, 25% final exam, 25% reports/papers.

SLHS 5502 Voice and Cleft Palate

3 credit(s); prereq [3305, 4301] or [CDIs 3305, CDIs 4301] or instr consent;

Instructor: Watson,Peter J

Description: Students taking this course will be expected to achieve the following learning outcomes: 1) 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 5603 Language and Cognitive Disorders in Children
3 credit(s); prereq 3303 or CDis 3303 or equiv or grad student or instr consent;

Instructor: Finestack,Lizbeth Haller

Description: Student may contact the instructor or department for information.

SLHS 5801 Audiologic Assessment I

3 credit(s); prereq 4801 or CDis 4801 or instr consent;

Instructor: Schlauch,Robert S

Description: The first few weeks of this course will build upon the knowledge acquired in your introductory course in Audiology. You will be expected to know fine details about test procedures and test interpretation, including understanding the content of journal articles from your readings that address these issues. An important part of the transition from undergraduate to graduate study is to know how to support your clinical decisions and the procedures you select with journal citations. Audiologic Assessment II, the second course in the sequence, will introduce material that is not presented in any detail in most undergraduate curricula if it is presented at all. This course will emphasize physiological measures, such as ABR and otoacoustic emissions. Laboratory exercises are designed to complement the lectures in these areas. By the end of this two-course sequence, you will have a strong foundation in auditory diagnosis using both behavioral and physiological measures. The laboratory exercises and practical exams are designed to provide you with the skills to enter a practicum in a medical setting with adults. Audiologic Assessment III, a course that emphasizes balance function, will complete the series. After successful completion of this course you will be able to: 1) perform independently a basic audiologic assessment on an adult client. This includes case history, otoscopy, tuning fork tests, pure tone audiometry, masking, word recognition performance for monosyllabic words, and the aural acoustic immittance battery. 2) Determine the need for selecting an assessment tool from the basic battery of tests listed above 3) Know how to interpret the results for the basic battery of audiometric tests for persons with normal hearing and impaired hearing 4) Know the effectiveness and precision of various tests in the basic battery based on results from scientific studies published in peer-reviewed journals

SLHS 5802 Hearing Aids I

3 credit(s); prereq [3305, 4801] or [CDis 3305, CDis 4801] or instr consent;

Instructor: Nelson,Peggy B

Description: Student may contact the instructor or department for information.

SLHS 5803 Hearing Loss in Children: Diagnosis

3 credit(s); prereq 4801 or CDis 4801 or instr consent;

Instructor: Rao,Aparna

Description: This course will focus on the diagnosis of auditory disorders in infants and children. Topics covered will include embryologic and physiologic development of the auditory system, genetics of hearing loss and non-genetic causes of hearing loss. Students will learn about hearing testing using behavioral and physiological measures. Newborn hearing

screening will be discussed as well.

Style: 50% Lecture, 10% Film/Video, 10% Discussion, 15% Small Group Activities, 15% Demonstration.

Grading: 25% mid exam, 25% final exam, 30% special projects, 10% quizzes, 10% in-class presentation.

SLHS 5808 Hearing Disorders

A-F only, 3 credit(s); prereq [8801, 8802] or [CDis 8801, CDis 8802];

Instructor: Nelson,Peggy B

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; prereq 4801 or CDis 4801 or equiv or instr consent;

Instructor: Schlauch,Robert S

Description: Student may contact the instructor or department for information.

SLHS 5993 Directed Study

1-12 credit(s), max credits 18, 18 completions allowed; prereq instr consent;

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; prereq Intended for students in Department of Speech-Language-Hearing Sciences;

Instructor: Nelson,Peggy B

Description: Student may contact the instructor or department for information.

SLHS 8720 Clinical Education in Speech-Language Pathology

S-N only, 1-8 credit(s), max credits 24, 24 completions allowed; prereq Grad CDis major, adviser, DGS consent;

Instructor: Deruiter,Mark

Description: Student may contact the instructor or department for information.

SLHS 8805 Hearing Science Foundations of Audiology

3 credit(s); prereq Knowledge of acoustics, basic anatomy/physiology of ear, intro coursework in hearing/speech science;

Instructor: Schlauch,Robert S

Description: Student may contact the instructor or department for information.

SLHS 8820 Clinical Education in Audiology

S-N only, 1-8 credit(s), max credits 24, 24 completions allowed; prereq Grad CDis major;

Instructor: Deruiter,Mark

Description: Student may contact the instructor or department for information.

SLHS 8840 Audiology Externship

S-N only, 1-7 credit(s), max credits 7, 3 completions allowed; prereq [8802, 8807] or [CDis 8802, CDis 8807];

Instructor: Deruiter,Mark

Description: Student may contact the instructor or department for information.

SLHS 8994 Directed Research

1-12 credit(s), max credits 18, 18 completions allowed; prereq instr consent;

Instructor: Carney,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; prereq instr consent;

Instructor: Angerman,Sarah Kay

Description: Student may contact the instructor or department for information.

SLHS 8994 Directed Research

1-12 credit(s), max credits 18, 18 completions allowed;

prereq instr consent;

Instructor: Deruiter,Mark

Description: Student may contact the instructor or department for information.

SLHS 8994 Directed Research

1-12 credit(s), max credits 18, 18 completions allowed;

prereq instr consent;

Instructor: 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;

prereq instr consent;

Instructor: Windsor,Jennifer

Description: Student may contact the instructor or department for information.

SLHS 8994 Directed Research

1-12 credit(s), max credits 18, 18 completions allowed;

prereq instr consent;

Instructor: Reichle,Joe E

Description: Student may contact the instructor or department for information.

SLHS 8994 Directed Research

1-12 credit(s), max credits 18, 18 completions allowed;

prereq instr consent;

Instructor: Kennedy,Mary R T

Description: Student may contact the instructor or department for information.

SLHS 8994 Directed Research

1-12 credit(s), max credits 18, 18 completions allowed;

prereq instr consent;

Instructor: Nelson,Peggy B

Description: Student may contact the instructor or department for information.

SLHS 8994 Directed Research

1-12 credit(s), max credits 18, 18 completions allowed;

prereq instr consent;

Instructor: Kohnert,Kathryn

Description: Student may contact the instructor or department for information.

SLHS 8994 Directed Research

1-12 credit(s), max credits 18, 18 completions allowed;

prereq instr consent;

Instructor: Munson,Benjamin

Description: Student may contact the instructor or department for information.

SLHS 8994 Directed Research

1-12 credit(s), max credits 18, 18 completions allowed;

prereq instr consent;

Instructor: Watson,Peter J

Description: Student may contact the instructor or department for information.

SLHS 8994 Directed Research

1-12 credit(s), max credits 18, 18 completions allowed;

prereq instr consent;

Instructor: Zhang,Yang

Description: Student may contact the instructor or department for information.

SLHS 8994 Directed Research

1-12 credit(s), max credits 18, 18 completions allowed;

prereq instr consent;

Instructor: Rao,Aparna

Description: Student may contact the instructor or department for information.

SLHS 8994 Directed Research

1-12 credit(s), max credits 18, 18 completions allowed;

prereq instr consent;

Instructor: Sasisekaran,Jayanthi

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: Warren,Clinton J

Description: This course is designed as an introductory course for students who have an interest in, or have been admitted into, the Sport Management program. It is an assumption of the instructor that students have a strong interest in sport and athletics, and that the career aspirations of students are driven by this industry. The primary emphasis is to introduce students to the broad range of issues and challenges that pertain to the business of sport, while also providing a foundation to those interested in pursuing a career in any given area of sport. Students will be expected to complete all assigned text readings on time, come to class prepared to discuss the current topic, and follow current events and news in the sport industry. Also, industry professionals will be invited to class to provide their personal perspective of the industry and share their individual stories.

SMGT 3111 Sports Facility and Event Management

A-F only, 3 credit(s); prereq SMGT major or instr consent ;

Instructor: Richardson,Tiffany

Description: Student may contact the instructor or department for information.

SMGT 3143 Organization and Management of Sport

A-F only, 3 credit(s); prereq SMGT major;

Instructor: Kihl,Lisa A

Description: Principles, policies, and procedures in administration/management of sports programs at interscholastic/intercollegiate levels.

SMGT 3421 Business of Sport

A-F only, 3 credit(s); prereq SMGT or kin or rec major or instr consent ;

Instructor: Gaddey,Roy Arthur

Description: Student may contact the instructor or department for information.

SMGT 3501 Sport in a Diverse Society

A-F only, 3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;

Instructor: Buysse,Jo Ann

Description: There can be no question that sport is currently a prevalent social institution in North America. Clearly, sport and patterns of physical activity are symbolic of the larger socio-cultural order. This course is designed to examine the pervasive and significant relationships between the social constructions of sport and physical activity to contemporary social institutions such as politics, religion, economics, education and mass media. It will introduce students to a broad perspective of social issues related to sport. In addition it will afford students the opportunity to critically explore and increase their understanding of how specific social categories such as age, gender, race, sex, social class, religion, sexual orientation and physical disabilities, intersect to influence participation and experiences of individuals within sport and physical activity contexts. In short, students will explore the "deeper game?"

through which sports and physical activities become an integral part of the social and cultural worlds in which we live. Sport sociology is located within the discipline of social science and this course is designed to meet the criteria for the liberal education social science core (SSci). In this course students will be introduced to the ways of knowing within the social science discipline. Students will learn about social science including theories, the methods by which social scientists collect, analyze and interpret data, and how social scientists interpret and explain human behavior within sport and physical activity contexts. Students will develop critical thinking and reflection skills, broaden their ways of knowing and thinking about what they know, and have ample opportunity to hone discussion and writing skills.

Style: 30% Lecture, 40% Discussion, 5% Student Presentation, 10% Guest Speakers, 15% Service Learning.

Grading: 25% mid exam, 25% final exam, 35% reports/papers, 15% attendance.

SMGT 3501 Sport in a Diverse Society

A-F only, 3 credit(s); Meets CLE req of Cultural Diversity

Theme; meets CLE req of Social Science Core;

Instructor: LaVoi, Nicole Marie

Description: Relationship between sport and contemporary social institutions. Groups/individuals who have historically been marginalized or excluded from sport participation. Race, sex, social class, sexual orientation, physical (dis)abilities.

SMGT 3501 Sport in a Diverse Society

A-F only, 3 credit(s); Meets CLE req of Cultural Diversity

Theme; meets CLE req of Social Science Core;

Instructor: Bhalla, Jennifer Anita

Description: There can be no question that sport is currently a prevalent social institution in North America. Clearly, sport and patterns of physical activity are symbolic of the larger socio-cultural order. This course is designed to examine the pervasive and significant relationships between the social constructions of sport and physical activity to contemporary social institutions such as politics, religion, economics, education and mass media. It will introduce students to a broad perspective of social issues related to sport. In addition it will afford students the opportunity to critically explore and increase their understanding of how specific social categories such as age, gender, race, sex, social class, religion, sexual orientation and physical disabilities, intersect to influence participation and experiences of individuals within sport and physical activity contexts. In short, students will explore the "deeper game" through which sports and physical activities become an integral part of the social and cultural worlds in which we live. Sport sociology is located within the discipline of social science and this course is designed to meet the criteria for the liberal education social science core (SSci). In this course students will be introduced to the ways of knowing within the social science discipline. Students will learn about social science including theories, the methods by which social scientists collect, analyze and interpret data, and how social scientists interpret and explain human behavior within sport and physical activity contexts. Students will develop critical thinking and reflection skills, broaden their ways of knowing and thinking about what they know, and have ample opportunity to hone discussion and writing skills.

SMGT 3601 Ethics and Values in Sport

A-F only, 2 credit(s); prereq SMGT major;

Instructor: Schull, Vicki Denise

Description: Violence, demonstrative behavior, sportsmanship. Ethical issues in playing of sport and in management/governance of sport industry.

SMGT 3631 Sport Marketing

A-F only, 3 credit(s); prereq SMGT major or instr consent ;

Instructor: Richardson, Tiffany

Description: Student may contact the instructor or department for information.

SMGT 3861 Legal Aspects of Sport

A-F only, 3 credit(s); prereq SMGT major or instr consent ;

Instructor: Allison JD, Rayla

Description: U.S. legal system, its structure/terminology. Sport legal aspects of contract law, statutory law, constitutional law, intellectual property, negligence, risk management. Managerial analysis, decision making.

SMGT 3881W Senior Seminar in Sport Management

A-F only, 3 credit(s); prereq SMGT major, completion of major coursework, instr consent ; Meets CLE req of Writing Intensive;

Instructor: Brownlee PhD, Eric A

Description: Presentations/discussions on sport-related topics of interest. Preparation for a career in the sports industry or graduate school.

SMGT 3996 Practicum: The Sport Experience

S-N only, 2-8 credit(s), max credits 8, 4 completions allowed; prereq 3881, SMGT major, instr consent ;

Instructor: Buysse, Jo Ann

Description: This is an experiential learning course where students learn and work in a professional organization outside of the classroom. This course is designed for Sport Studies majors only. It is their final core course. It is similar to an internship, with the exception that practicum credits may be divided between two semesters and also between two sites.

Style: field experience

Grading: 20% reports/papers, 80% other evaluation. Supervisor evaluation of work

SMGT 3996 Practicum: The Sport Experience

S-N only, 2-8 credit(s), max credits 8, 4 completions allowed; prereq 3881, SMGT major, instr consent ;

Instructor: Brownlee PhD, Eric A

Description: Practical experience in one or more sport settings.

Statistics *313 Ford Hall*

STAT 1001 Introduction to the Ideas of Statistics

4 credit(s); prereq High school algebra; Meets CLE req of Mathematical Thinking Core;

Instructor: STAFF

Description: Introduction to the Ideas of Statistics is a course that teaches the basic ideas of statistics without getting bogged down in equations, Greek letters, and complicated calculations. Conceptual issues, which make the difference between valid and bogus uses of statistics, are faced squarely and not "dumbed down" but the mathematics is kept simple and explained in plain English, graphs, and diagrams. Topics covered are design of experiments (what makes a valid scientific experiment), descriptive statistics (histograms, the bell-shaped curve, and all that), regression and correlation, probability and the law of averages, chance variability of statistical estimates, the accuracy of polls and sample surveys, and the use of data as evidence in testing and plausibility of claims made about populations.

Style: 75% Lecture, 25% Laboratory.

Grading: 40% mid exam, 40% final exam, 20% problem solving.

Exam Format: essay, problem solving and multiple choice

STAT 3011 Introduction to Statistical Analysis

4 credit(s); prereq Two yrs high school math; Credit will not be granted if credit has been received for: STAT 5021; Meets CLE req of Mathematical Thinking Core;

Instructor: STAFF

Description: This course provides an introduction to basic methods of statistics, including descriptive statistics, elementary probability ideas and random variables, distributions of sample averages. One and two sample t-procedures, simple linear regression, basic ANOVA. The target audience is undergraduates from all majors. Stat 3011 and Stat 3021 are both entry courses into the statistics curriculum for undergraduates.

Exam Format: problem solving

STAT 3021 Introduction to Probability and Statistics

3 credit(s); prereq Math 1272;

Instructor: STAFF

Description: This course will start with an introduction of probability, including interpretations of probability, axioms of probability, and the use of counting methods for solving probability problems, conditional probability, Bayes theorem, independence, random variables and distributions, expected values, the binomial, Poisson, normal and other distributions, the law of large numbers, and the central limit theorem. Then we will cover applications of the above to the theory of statistical inference, including estimation, confidence intervals, and hypothesis tests.

Style: 100% Lecture.

Grading: 45% mid exam, 45% final exam, 10% problem solving.

Exam Format: Problem solving

STAT 3022 Data Analysis

4 credit(s); prereq 3011 or 3021;

Instructor: STAFF

Description: Further topics in regression and ANOVA; non-parametric methods; model selection and verification; writing statistical reports; use of statistical software; additional selected topics.

STAT 4101 Theory of Statistics I

4 credit(s); prereq Math 1272; Credit will not be granted if credit has been received for: STAT 5101;

Instructor: Okabayashi,Sai

Description: Student may contact the instructor or department for information.

STAT 4893W Senior Paper

1 credit(s); prereq Stat major; Meets CLE req of Writing Intensive;

Instructor: STAFF

Description: STAT 4893W is a requirement for a BA in Statistics in CLA. It also fulfills the University requirement of a Writing Intensive course in the major. It can be satisfied in several ways including but not limited to directed study culminating in a paper on a specialized area of Statistics (most common choice), carrying out a "case study" involving data collection and analysis and a report, and writing and documenting a computer program to implement a nontrivial statistical technique. Students should enroll in any semester of their Senior year. If work is unfinished at semester end (as frequently happens), an incomplete (I) is usually granted. The topic of the paper should be chosen in consultation with a Statistics faculty supervisor. Frequently this faculty member will be the student's instructor in STAT 5xxx, and the paper will build from the course. See <http://www.stat.umn.edu/ugrad/stat4893.html> for more information.

Grading: 100% reports/papers.

STAT 5021 Statistical Analysis

4 credit(s); prereq credit will not be granted if credit received for: 3011; College algebra or instr consent; Stat course recommended; Credit will not be granted if credit has been received for: STAT 3011;

Instructor: STAFF

Description: The primary audience for this course is graduate students in non-statistics- major programs who need statistical competence. Typical needs would be the analysis of data using common statistical methods, the design of single-factor experiments and the ability to read journal articles and assess their statistical content critically. After completion of the course, students are able to carry out one-and-two sample tests, set up confidence intervals for means, proportions and differences in means and proportions. They can fit single-predictor regressions and one-way analysis of variance, along with checks of the model assumptions underlying these methods. The course includes a brief non-calculus introduction to probability theory and statistical distributions.

Style: 50% Lecture, 25% Discussion, 25% Laboratory.

STAT 5101 Theory of Statistics I

4 credit(s); prereq Math 2263; Credit will not be granted if credit has been received for: STAT 4101;

Instructor: Geyer,Charles J

Description: Student may contact the instructor or department for information.

STAT 5101 Theory of Statistics I

4 credit(s); prereq Math 2263; Credit will not be granted if credit has been received for: STAT 4101;

Instructor: Geyer,Charles J

Description: This section meets in a classroom in Minneapolis but is also televised to Rochester. For that reason all of the course material is on the web at the Course URL where slides, handouts, computer examples, homework assignments, and old tests can be found. This section does not have a required textbook. All Stat 5101 sections are supposed to cover the same material as Math 5651 and vice versa. One can follow Math 5651 with Stat 5102 or follow Stat 5101 with Math 5652. This section has more emphasis on multivariate distributions and multiparameter families of distributions.

Style: 80% Lecture, 20% Demonstration.

Grading: 20% mid exam, 40% final exam, 20% written homework. there are two midterms, so these add to 100%

Exam Format: problems to solve, see old tests on class web site

STAT 5101 Theory of Statistics I

4 credit(s); prereq Math 2263; Credit will not be granted if credit has been received for: STAT 4101;

Instructor: Jiang,Tiefeng

Description: Student may contact the instructor or department for information.

STAT 5302 Applied Regression Analysis

4 credit(s); prereq 3022 or 4102 or 5021 or 5102 or instr consent;

Instructor: Wang,Zhan

Description: Student may contact the instructor or department for information.

STAT 5303 Designing Experiments

4 credit(s); prereq 3022 or 4102 or 5021 or 5102 or instr consent;

Instructor: Corbett,John Paul

Description: Student may contact the instructor or department for information.

STAT 5421 Analysis of Categorical Data

3 credit(s); prereq 5302 or instr consent;

Instructor: Lazar,Radu C

Description: Student may contact the instructor or department for information.

STAT 5601 Nonparametric Methods

3 credit(s); prereq 3022 or 4102 or 5021 or 5102 or instr consent;

Instructor: Lazar,Radu C

Description: Student may contact the instructor or department for information.

STAT 5931 Topics in Statistics: Environmental Statistics

3 credit(s);

Instructor: Oehlert,Gary W

Description: Student may contact the instructor or department for information.

STAT 5993 Tutorial

1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent;

Instructor: STAFF

Description: Students may contact the department for information.

STAT 8051 Applied Statistical Methods 1: Computing and

Generalized Linear Models

A-F only, 4 credit(s); prereq Statistics grad major or instr consent ;

Instructor: Wang,Lan

Description: Student may contact the instructor or department for information.

STAT 8053 Applied Statistical Methods 3: Multivariate Analysis and Advanced Regression

A-F only, 4 credit(s); prereq 8052, 8102;

Instructor: Weisberg,Sanford

Description: Student may contact the instructor or department for information.

STAT 8101 Theory of Statistics 1

4 credit(s); prereq Statistics grad major or instr consent ;

Instructor: Jiang,Tiefeng

Description: Student may contact the instructor or department for information.

STAT 8111 Mathematical Statistics I

3 credit(s); prereq [5102 or 8102 or instr consent], [[Math 5615, Math 5616] or real analysis], matrix algebra;

Instructor: Jones,Galin

Description: Student may contact the instructor or department for information.

STAT 8501 Introduction to Stochastic Processes with Applications

3 credit(s); prereq 5101 or 8101;

Instructor: Sudderth,William D.

Description: Text: Stochastic Processes by Sheldon Ross Brief Course Outline The course will cover material in Chapters 1 through 5 of the text on the Poisson process, renewal processes, and Markov chains in discrete and continuous time. Depending on time available and class preferences, we will also study topics from Chapters 6 through 8 on martin- gales, random walks, and Brownian motion. Other possible topics (not in the textbook) are Markov chains on general state spaces and diffusion processes.
Style: 100% Lecture.

STAT 8821 Curricular Practical Training

S-N only, 1 credit(s); prereq Statistics grad student, dept consent ;

Instructor: Jones,Galin

Description: Student may contact the instructor or department for information.

STAT 8913 Literature Seminar

S-N only, 1 credit(s), max credits 4, 4 completions allowed; prereq Statistics grad major or instr consent ;

Instructor: Meeden,Glen Dale

Description: Student may contact the instructor or department for information.

STAT 8931 Advanced Topics in Statistics: Sufficient dimension reduction

3 credit(s), max credits 12, 4 completions allowed;

Instructor: Cook,R. Dennis

Description: Student may contact the instructor or department for information.

Stem Cell Biology

Stem Cell Institute

STEM Cell 5051 Stem Cell Biology Practical Training Module

S-N only, 1 credit(s); prereq Acceptance into stem cell biology master's program;

Instructor: Slack,Jonathan M W

Description: Student may contact the instructor or department for information.

STEM Cell 5054 Stem Cell Institute Research Seminar and Journal Club

S-N only, 2 credit(s), max credits 6, 3 completions allowed; prereq Acceptance into stem cell biology [master's prog or PhD minor prog] or instr consent ;

Instructor: Keirstead,Susan Alice

Description: Student may contact the instructor or department for information.

STEM Cell 8181 Stem Cell Biology

3 credit(s); prereq [[GCD 4034 or 8121 or BIOC 8002], [GCD 4161 or 8161]] or instr consent ;

Instructor: Slack,Jonathan M W

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); prereq credit will not be granted if credit received for: CSCL 1201; Credit will not be granted if credit has been received for: CSCL 1201; Meets CLE req of Other Humanities Core;

Instructor: STAFF

Description: The emergence of what is variously referred to as the "Information Age" and "Society of the Spectacle" has made it necessary for us to think critically about the media. Since visual media have the most pervasive influence on our everyday lives, this course will focus on how forms such as advertising, film, and television work, affect perception, and structure meaning. We will read some of the most important theoretical and historical texts that provide insight into our "ways of seeing." No prior exposure to media theory is expected, but although this is an introductory class, students will be expected to read and work through challenging material. We will read a variety of critics who have attempted to analyze cinema and media culture and we will also begin to develop a vocabulary for formal visual analysis.

SCMC 3001W History of Cinema and Media Culture

4 credit(s); Meets CLE req of Writing Intensive;

Instructor: Johnson,Kjel Wayne

Description: SCMC 3001 examines "our" contemporary media culture and its artifacts by way of the history and current role of vision and visuality that has become our "window on the world" and the epistemological foundations that inform our (post?)modern understanding of aesthetics, politics, experience, perception, and identity -- in short, the ways we "make meaning" of our culture and our place (indeed, placement) within it. Rather than attempt to cover the linear development of the amorphous force called "media culture" (or, worse, to proceed with the idea that such a history is something comprehensible in the limited time we will share in this course), we will instead begin at "the end", with the purported "death of the cinema." From this situation, we will step back, in both scope and time, to explore key concepts and questions regarding the power of the visual as it has taken new forms and functions in Western culture from "the modern" to "the postmodern," the ways in which technological, social, and industrial developments in "the media" have given rise to new theoretical and philosophical perspectives in the academy, and the power, limits, and possibilities of systems of representation as they impact daily life ... all considered in terms of "how we got here," and if "here" is really all we think, see, and know it to be. As such, our journey will be one of a selective travelogue, composed in snapshots torn from the fabric of a larger whole, giving an incomplete but hopefully meaningful image of the complex intersections between media, culture, experience, and scholarship over time.

SCMC 3201 Fundamentals of Digital Filmmaking

A-F only, 4 credit(s); prereq instr consent ;

Instructor: Bizri,Hisham M.

Description: This course is an introduction to the practice of digital cinema production techniques. The main focus of the course will be practical, affording students ample time to direct, shoot, and edit (including post-production) original works of cinema. In doing so, students will begin to master the use of both optical and digital tools such as the camera, optics, lights, color, and the computer, and to explore how they might draw on other media (music, painting, theater, photography, and sculpture) in their productions. We will inform this practical focus by attending, as well, to how films are made in terms of space, light, action, dramatic structures, montage, and the overall visual vision of master filmmakers.

Style: 100% Studio.

Grading: 50% special projects, 50% attendance.

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; prereq Grad SST minor;

Instructor: STAFF

Description: This colloquium is a series of weekly lectures by nationally and internationally known scholars with diverse disciplinary and methodological backgrounds speaking on a variety of issues on the philosophy and history of science and technology.

SST 8400 Seminar: Science, Technology, and Society

3 credit(s); prereq HSci 8111 or [Phil 8601 or Phil 8602 or Phil 8605] or instr consent;

Instructor: STAFF

Description: Student may contact the instructor or department for information.

SST 8420 Seminar: Social and Cultural Studies of Science

3 credit(s), max credits 6; Credit will not be granted if credit has been received for: PHIL 8660;

Instructor: Borrello,Mark E

Description: Student may contact the instructor or department for information.

Sustainability Studies

190 Coffey Hall

SUST 3003 Sustainable People, Sustainable Planet

3 credit(s); prereq Soph or jr or sr; Credit will not be granted if credit has been received for: GLOS 3304; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Environment Theme;

Instructor: Arnold,Todd W.

Description: Sustainability recognizes that economic growth, social equity, and environmental integrity are all worthy goals, but that these goals compete so that it is impossible to maximize all three of them concurrently. Some objectives of sustainability are therefore realized at the cost of other equally valid objectives. Sustainable People, Sustainable Planet provides an historical, ethical and technical overview of various models for understanding sustainability. It also demonstrates, by utilizing a variety of real-world case studies, the conflicts and trade-offs that occur from trying to put sustainability into practice. The course is intended for sophomores and above who are interested in completing the Sustainability Studies Minor, and for all students who are interested in the subject and wish to satisfy the University's liberal education themes for Environment and Citizenship/Public Ethics. The course should be considered "reading intensive" but it has no prerequisites.

Style: 50% Lecture, 50% Discussion.

Grading: 67% reports/papers, 23% special projects, 10% class participation.

Sustainable Agricultural Systems

411 Borlaug Hall

SAGR 8010 Colloquium in Sustainable Agriculture

A-F only, 2 credit(s); prereq Coursework in biological or social sciences that provides intro to ag practices or issues;

Instructor: Sheaffer,Craig Charles

Description: Study the social, economic, political and environmental aspects of a sustainable agriculture through discussions with experts in the field. Specific topics can include: the history of agriculture and the family farm, government farm policy, the importance of biodiversity for healthy landscapes, rural communities, quality of life, community supported agriculture, organic agriculture, landscape health and non-profit organizations. Teaching approaches will include student, faculty and producer-led discussions. The course will include on-farm visits. Target audience: non-majors and majors interested in sustainable agriculture.

SAGR 8020 Field Experience in Sustainable Agriculture

S-N only, 1-4 credit(s), max credits 3, 1 completion allowed; prereq Coursework in biological or social sciences that provides intro to ag practices or issues;

Instructor: Jordan,Nicholas Royal

Description: Student may contact the instructor or department for information.

Swahili

808 Social Sciences Tower

SWAH 1221 Beginning Swahili, Semester I

5 credit(s);

Instructor: STAFF

Description: Student may contact the instructor or department for information.

SWAH 3225 Intermediate Swahili**5 credit(s); prereq 1 yr Swahili or equiv;****Instructor:** Muaka,Angaluki**Description:** Student may contact the instructor or department for information.**SWAH 4221 Beginning Swahili I****2 credit(s); prereq Grad student;****Instructor:** STAFF**Description:** Student may contact the instructor or department for information.**SWAH 4225 Intermediate Swahili****2 credit(s); prereq Grad student;****Instructor:** Muaka,Angaluki**Description:** Student may contact the instructor or department for information.**Swedish****205 Folwell Hall****SWED 1001 Beginning Swedish****5 credit(s); Credit will not be granted if credit has been received for: SWED 4001;****Instructor:** STAFF**Description:** This is the first course in the first-year language instruction sequence (1001-2), designed to develop a basic communicative proficiency in Swedish. Students will practice the four language skills (speaking, writing, reading, and listening) and learn to handle simple, everyday transactions. Class sessions will emphasize interactive communicative activities in pairs and small groups, with a focus on improving listening and speaking skills. Additional class time will be spent on reading, writing, and grammar. Students are expected to practice these skills outside of class as well. Learning about life and culture in Sweden is an integral part of the course. See the description for Swed 4001 for an option for qualified students to register for this course for 2 credits (and lower tuition) instead of 4 credits.**Style:** 10% Lecture, 70% Discussion, 20% Laboratory.**Grading:** 100% other evaluation. 50% reading/writing, 50% oral/aural**Exam Format:** structured exercises in all 4 modalities and grammar, pronunciation, vocabulary and culture**SWED 1002 Beginning Swedish****5 credit(s); prereq 1001; Credit will not be granted if credit has been received for: SWED 4002;****Instructor:** STAFF**Description:** This course continues the beginning sequence in Swedish, which covers four language skills: listening, speaking, reading and writing. Students will also gain knowledge of Swedish culture through various means, including audio-visual aids available in the language laboratory. Lecture, class discussions and classroom exercises will be conducted in Swedish. Class sessions will emphasize interactive communicative activities in pairs and small groups, with a focus on improving listening and speaking skills. Additional class time will be spent on reading, writing, and grammar. Students are expected to practice these skills outside of class as well.

Learning about life and culture in Sweden is an integral part of the course. You may register for this course under the number Swed 4002 for a reduced number of credits (and lower tuition) if you have already passed the Language Proficiency Exam (LPE) in another language or are a graduate student or a non-degree-seeking student. Contact the Department Office at (612) 625-2080 for a permission number.

Style: 10% Lecture, 70% Discussion, 20% Laboratory. 50% reading/writing; 50% oral/aural**SWED 1003 Intermediate Swedish****5 credit(s); prereq 1002; Credit will not be granted if credit has been received for: SWED 4003;****Instructor:** STAFF**Description:** This course continues the presentation of language skills--speaking, writing, listening and reading begun in Swedish 1001-2 (or quarter system courses 1101-2-3). 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 interactive will familiarize students with the different levels of formality and intimacy used in conversational settings, and the codes and mythologies unique to Swedish culture. See the description for Swed 4003 for an option for qualified students to register for this course for 2 credits (and lower tuition) instead of 4 credits.

Style: 10% Lecture, 70% Discussion, 20% Laboratory.**Grading:** 100% other evaluation. 50% reading/writing, 50% oral/aural**Exam Format:** written essays, listening and reading protocols, structural exercises, oral interviews**SWED 4001 Beginning Swedish****2 credit(s); prereq 1004 in another language or passing score on LPE or grad student; Credit will not be granted if credit has been received for: SWED 1001;****Instructor:** STAFF**Description:** See the course description for Swed 1001. This 4xxx-level course designator is a special option for qualified students to take the 1xxx-level course for reduced credits. If you have already passed the Graduation Proficiency Test (GPT) in another language or are a graduate student or are not seeking a CLA degree, you may register for Swed 1001 under the number Swed 4001 for 2 credits. Contact the department office, (612) 625-2080, for permission.**SWED 4003 Intermediate Swedish****2 credit(s); prereq 1004 in another language or passing score on LPE or grad student; Credit will not be granted if credit has been received for: SWED 1003;****Instructor:** STAFF**Description:** See the course description for Swed 1003. This 4xxx-level course designator is a special option for qualified students to take the 1xxx-level course for reduced credits. If you have already passed the Graduation Proficiency Test (GPT) in another language or are a graduate student or are not seeking a CLA degree, you may register for Swed 1003 under the number Swed 4003 for 2 credits. Contact the department office, (612) 625-2080, for permission.**TMJ/Craniofacial Pain****15-209 Malcolm Moos Health Sciences Tower****TMJP 8440 Advanced Theory and Principles of TMJ and Craniofacial Pain****A-F only, 0-3 credit(s), max credits 3, 1 completion allowed;****Instructor:** Mulet Pradera DDS,MS,Mariona**Description:** Student may contact the instructor or department for information.**TMJP 8441 Seminar in TMJ and Craniofacial Pain****A-F only, 1 credit(s);****Instructor:** Giri,Subha**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;**

prereq Participation in TMJ and orofacial pain advanced education program;**Instructor:** Mulet Pradera DDS,MS,Mariona**Description:** This course provides the student with clinical experience in the diagnosis and management of TMD, complex chronic orofacial pain and oral medicine conditions under the supervision of the course director and/or other faculty. A multidisciplinary treatment approach of patients with TMD and orofacial pain is used.**Teaching English as a Second Language****214 Nolte Center****TESL 3001W Basics in Teaching English as a Second Language****4 credit(s); prereq Have studied another language, [native speaker or [C-TOEFL score of at least 213 or equiv]; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Cultural Diversity Theme; meets CLE req of Writing Intensive;****Instructor:** STAFF**Description:** TESL 3001 is designed to be a practical course, using a service learning approach, to prepare students to teach ESL in community programs. The course uses lectures, demonstrations, discussions, group work, and practice teaching to develop student skill and understanding regarding techniques for teaching and assessing English as a second language listening, speaking, reading, and writing competencies. Students will also gain insight into the phonological and syntactic systems of English, the linguistic, psychological, and sociocultural factors that influence second language acquisition, and cultural knowledge of local immigrant groups, such as Hmong, Somali, and Hispanics. Course assignments aim to promote reflection about teaching and learning, cultural identity and cross cultural communications, and addressing lesson management issues and needs analyses. An internship at a school or agency teaching ESL is required and will be arranged on the first day of class. The internship requires 2-3 hours of volunteer teaching per week. The internship gives students a context to apply lessons from class and the class serves as a sounding board to discuss issues that arise during the internship. Giving presentations in class, participating in small group and whole class discussions, and writing to connect theory and practice are important parts of the class. The class is 4 credits, meets CLE requirement of Citizenship/Pub-Ethics Theme; meets CLE requirement of Cultural Diversity Theme; meets Writing Intensive requirements and is also part of the TESL minor.**Style:** 15% Lecture, 20% Discussion, 35% Small Group Activities, 10% Student Presentation, 20% Guest Speakers.

Note: service learning is a large part of this course, but occurs outside of class time.

Grading: 15% in-class presentation, 15% class participation, 25% other evaluation. Exams include short answers, essays, and multiple choice questions**Exam Format:** short answer essay**TESL 3501 Practical Language Learning for International Communication****3 credit(s);****Instructor:** Cohen,Andrew David**Description:** Going to study abroad to learn a new language and experience a new culture? What are your strengths as a language learner? This course is about improving language and culture learning-about getting a sense of your learning style preferences and language strategy preferences. You will also explore your motivation to learn languages in general and a given language in particular, and your motivation to do specific language tasks. Ideally, the course will not only make you more aware, but also better equip you to succeed at learning and using languages now and in the future, at home and abroad. The approach of the course is to provide you with background

readings on learning a new language; to engage you in diagnosing your learning style and language strategy preferences and those of your peers; and to have you participate in classroom exercises intended to simulate real language learning and language use situations. The topics include: (a) learning a new language, (b) learning style preferences, (c) defining and classifying language learner strategies; (d) strategies for cross-cultural awareness and enhancing adaptation to a new culture, (e) strategies by skill areas-listening, vocabulary learning, speaking, reading, writing, translation, and nonverbal strategies, (f) motivation in language learning, (g) the intersection of task, style, and strategy, and (h) learning language under differing teaching method. 2 term papers: describing yourself and then 3 peers as language learners.

Style: 20% Lecture, 30% Discussion, 20% Small Group Activities, 20% Student Presentation, 10% Guest Speakers. Group tasks, groups of 2-3 will lead a portion of the class sessions**Grading:** 50% reports/papers, 30% quizzes, 5% attendance, 10% in-class presentation, 5% class participation.**Exam Format:** Short-answer questions - on 3 quizzes, no exam.**TESL 5401 Language Analysis for Teachers of English as a Second Language****4 credit(s); prereq Ling 3001 or Ling 5001 or instr consent ; Instructor:** STAFF**Description:** Description: This course provides an overview of the structure of the English language that is specifically geared to the needs of teachers of English to speakers of other languages (both ESL and EFL). While not focusing on pedagogical issues per se, it will view the structures of English from the point of view of second language speakers as well as analyzing the ways in which native speakers use the language. The core function of the course is to make clear the links between theoretical concepts in linguistics and the structure of the language produced by native speakers of English. TESL 5401 is the first of a two-semester sequence. In TESL 5401 we will cover English phonetics and phonology, basic morphology of English, and the grammar of the simple sentence in English, including word order, subject-verb agreement, verb tense and aspect, modals, negation, and question formation. NOTE: Beginning in Fall Semester 2009, TESL 5401 will be taught only at the graduate level, appropriate for MA ESL and other graduate students. Undergraduate ESL Minor/TESL Certificate students are still welcome in this class, but they should know that the same course requirements will apply to all enrolled students; there will no longer be a different set of requirements for undergraduates. We strongly urge undergraduates to instead consider our new undergraduate Language Analysis course, TESL 3401, Introduction to Pronunciation and Grammar for ESL Teachers, to be offered for the first time in Spring 2010. Either TESL 3401 or 5401 will fulfill the ESL minor and/or TESL certificate requirements for undergraduate students.**Style:** 25% Lecture, 25% Discussion, 20% Laboratory, 30% Small Group Activities.**Grading:** 30% reports/papers, 50% quizzes, 10% in-class presentation, 10% class participation. (Class participation Includes online discussions.)**Exam Format:** short answer, essay, syntactic tree diagrams, phonetic transcription**TESL 5721 Methods in Teaching English as a Second Language****3 credit(s); prereq Ling 3001 or 5001 or instr consent;****Instructor:** Lazaraton,Anne**Description:** This course provides a broad introduction to the field of Teaching English as a Second Language, with a special focus on teaching ESL to adults at the college or university level. Students will: 1) Examine a number of approaches to language teaching, both traditional and innovative; 2) Review current practices in the teaching of the component language skills (listening, speaking, reading, writing) as well as grammar and vocabulary; 3) Examine current approaches to teaching these skills in ESL/EFL texts and classroom materials; 4) Discuss learner needs based on proficiency level as well as linguistic and cultural background; and 5) Overview skills for teachers,

including lesson planning, materials selection and evaluation, technology use, language assessment and test evaluation, and professional development. Students will be required to complete a number of homework assignments, observe several ESL classes, write a publishable quality ESL materials review, and prepare a presentation of some aspect of the TESOL profession. Finally, students will write a language learning autobiography and a reflective statement to be included in a portfolio of course work to be submitted at the end of the semester. This course is designed for graduate students and undergraduates with some language teaching experience; other undergraduates should consider TESL 3001, offered during the Fall and Spring semesters of every year.

Style: 20% Lecture, 80% Discussion.

Grading: 40% reports/papers, 10% in-class presentation, 10% class participation, 40% problem solving.

TESL 5724 Intro to Language Assessment

A-F only, 3 credit(s);

Instructor: Cohen, Andrew David

Description: This course deals with the principles and practice of assessing second or foreign language learning by adults. Students will learn about the assessment of adult ESL (or another foreign/second language) ability for instructional purposes. While the course has no prerequisites, it assumes that course participants will have some familiarization with the field of second language teaching and learning. Participants will both listen to and lead presentations and discussions about readings on the topic, and will perform a series of tasks involving assessment measures. For their final project, students will construct their own language assessment measure, and will use a computer program (Lertap) to analyze quantifiable results. The final paper will entail writing up the results of the assessment project.

Style: 20% Lecture, 30% Discussion, 20% Small Group Activities, 20% Student Presentation, 10% Web Based.

Grading: 50% reports/papers, 20% written homework, 20% in-class presentation, 10% class participation.

TESL 5805 Basics of Second Language Acquisition for Teachers

3 credit(s); prereq LING 3001 or 3001H or 5001 or instr consent ;

Instructor: Tarone, Elaine E

Description: Student may contact the instructor or department for information.

TESL 5993 Directed Studies

1-4 credit(s), max credits 9, 9 completions allowed; prereq instr consent , dept consent , college consent ;

Instructor: STAFF

Description: In order to obtain Directed Studies credit through TESL 5993, students must fill out a Student/Faculty Contract for Directed Study. On the form, the student indicates the title of the project, the number of desired semester credits(1-4), the learning objectives associated with it, methods and resources to be used (books, articles, etc.), and also indicate how the results of the project will be evaluated. Then a Faculty Member for ESL must approve it and sign as the supervisor for the project. Forms are available in the department office.

Theatre Arts *580 Rarig Center*

TH 1101V Honors Section: Introduction to the Theater

A-F only, 4 credit(s); prereq Honors; Meets CLE req of International Perspect Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;

Instructor: Lewis, Megan

Description: TH1101 is an entertaining, informative exploration of the art and profession of theatre. This course integrates intellectual stimulation with creative expression through lectures, small group discussion, and attending live performances in the

Twin Cities. Students study plays (classical and contemporary), the politics of theatre both past and present, elements of production, and learn how a play evolves from page to stage. Students also get a hands-on opportunity to collaborate on the creative project (no acting is required). For students interested in art and education, TH1101 introduces diversity and celebrates creativity; For students interested in business and law, TH1101 promotes collaboration and critical thinking and enhances oral communication skills; For students interested in the sciences, TH1101 strengthens interpersonal communication skills and promotes right-brain activity; For students interested in engineering and math, TH1101 encourages abstract thinking and creative application of knowledge; For students interested in the humanities, TH1101 explores the human experience and the intersections of art, history, and culture; For students interested in medicine, TH1101 emphasizes the well-being of the soul through collaborative exchange. A-F only, prereq Honors, meets Lib Ed req of Global Perspective Theme; meets Lib Ed req of Arts & Humanities Core; meets Lib Ed req of Writing Intensive; meets Honors req of Honors

Style: 40% Lecture, 20% Discussion, 20% Laboratory, 10% Small Group Activities, 5% Field Trips, 5% Guest Speakers.

Grading: 50% reports/papers, 15% special projects, 10% attendance, 20% reflection paper, 5% class participation.

TH 1101W Introduction to the Theatre

4 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;

Instructor: Lewis, Megan

Description: TH1101 is an entertaining, informative exploration of the art and profession of theatre. This course integrates intellectual stimulation with creative expression through lectures, small group discussion, and attending live performances in the Twin Cities. Students study plays (classical and contemporary), the politics of theatre both past and present, elements of production, and learn how a play evolves from page to stage. Students also get a hands-on opportunity to collaborate on the creative project (no acting is required). For students interested in art and education, TH1101 introduces diversity and celebrates creativity; For students interested in business and law, TH1101 promotes collaboration and critical thinking and enhances oral communication skills; For students interested in the sciences, TH1101 strengthens interpersonal communication skills and promotes right-brain activity; For students interested in engineering and math, TH1101 encourages abstract thinking and creative application of knowledge; For students interested in the humanities, TH1101 explores the human experience and the intersections of art, history, and culture; For students interested in medicine, TH1101 emphasizes the well-being of the soul through collaborative exchange. A-F only, prereq Honors, meets Lib Ed req of Global Perspective Theme; meets Lib Ed req of Arts & Humanities Core; meets Lib Ed req of Writing Intensive; meets Honors req of Honors

Style: 40% Lecture, 20% Discussion, 20% Laboratory, 10% Small Group Activities, 5% Field Trips, 5% Guest Speakers.

Grading: 50% reports/papers, 15% special projects, 10% attendance, 20% reflection paper, 5% class participation.

TH 1102 Drama and the Media

3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core;

Instructor: Lewis, Megan

Description: This introductory level course will explore the following questions: What are THE MEDIA?? What is DRAMATIC about them? What DRAMATIC CONVENTIONS are at play in various media? How are media CONSTRUCTED? PRODUCED? RECEIVED and UNDERSTOOD? And how do media MAKE MEANING? We will also focus on several in-depth case studies: Disney, The Documentary Form, Africa in Film, and Advertising & Culture Jamming. We will examine these fertile issues through selected readings, video and film clips viewed in class, class discussions and small group work, and online exercises. Guest speakers will expand our thinking with their insights on such topics as Sports and Drama, Virtual Spaces & Identities, Online Gaming, Surveillance Culture,

Dystopic Storytelling, and Radio Drama. We end the course with an opportunity to MAKE MEDIA through a collaborative radio drama project. Students will explore the dramatic potential of a single medium ? radio ? in creative collaboration. In small groups, you will write, direct, rehearse and perform a radio drama, complete with sound effects. The dramas will be recorded in front of a live studio audience: the class! COURSE GOALS After taking TH1102: Drama and the Media, you should be able to: ? View, encounter, and consume media with critical savvy ? Understand the ways in which media are constructed, produced, understood and how they make meaning in our culture ? Use ?drama? and ?theatre? as a lens through which to identify and unpack some of the myths circulating through various media in our culture

Style: 25% Lecture, 25% Film/Video, 25% Discussion, 10% Small Group Activities, 5% Guest Speakers, 10% Web Based.
Grading: 25% mid exam, 25% special projects, 5% attendance, 15% reflection paper, 5% class participation.

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); prereq 1101 or Concurrent registration is required (or allowed) in 1101;

Instructor: STAFF

Description: Introduces beginning students to a widely applicable, comprehensive vocabulary and techniques for practical performance studies, including the use and training of the instrument; the creation of theatrical ideas or choices; the creation of dramatic "phrases"; by sequencing ideas and choices to tell stories; and the significance of circumstances for choice making. The course has three overarching objectives: providing an introduction to creation processes specific to the performer, psychological and physical training of the acting instrument, and training the personal imagination. The first part of a two-course sequence (with TH 1322, Creating the Performance) intended for theatre arts majors. Required reading: A compilation of performance processes, theories and techniques including: Lecoq, Grotowski, Stanislavski, Meyerhold, Chekov, etc.

Style: 10% Discussion, 90% Laboratory.

Grading: 25% reports/papers, 25% in-class presentation, 25% other evaluation. Attendance & Participation; 25% Attitude & Growth.

TH 1322 Creating the Performance

3 credit(s); prereq 1321;

Instructor: Kayim,Gulgun Hayati

Description: Student may contact the instructor or department for information.

TH 1322 Creating the Performance

3 credit(s); prereq 1321;

Instructor: Rosen,Robert S

Description: Creative approaches to re-inventing life on-stage. To create a theatre of human nature, through diverse forms of visual expression, music, language and acting technique. This course is designed to stimulate individual expression and creativity through the exploration of theatrical genres and techniques while at the same time encouraging originality. Discover the art of the Director as a collaborator, guiding the efforts of the playwright, designers and actors. Students will

serve as both actors and directors to create solo, collaborative and student directed performances using acting techniques based in eclectic forms of visual and verbal expression. The course will explore original student generated work as well as previously conceived scripted work. Text work will include examining the relation between what is in the words of a text and what lies between the words

TH 1362 Dance for Musical Theatre

A-F only, 2 credit(s); Credit will not be granted if credit has been received for: DNCE 1362;

Instructor: Lee,Linda Talcott

Description: This class will introduce a variety of dance styles found in Musical Theatre currently and in the past. The works of prominent choreographers in this field, such as Jerome Robbins, Bob Fosse, Michael Bennett and Michael Kidd will be discussed and learned through movement across the floor, center exercises and center combinations. A technical jazz warm up will be given at the start of each class to prepare the body for energetic movement as well as giving the student an understanding of body placement, dance vocabulary, and style. Emphasis will be placed on stretching emotional boundaries through movement, creating the ability to develop a character, a talent needed in musical theatre dancing. Prior dance training is recommended, but not necessary as long as the student enters with an open mind. This class will have live accompaniment.

Style: Studio

TH 1391 BFA Acting I

A-F only, 3 credit(s); prereq Accepted into BFA acting program;

Instructor: Mitchell,Kenneth N

Description: Student may contact the instructor or department for information.

TH 1392 BFA Voice and Speech I

A-F only, 2 credit(s); prereq Accepted into BFA acting prog;

Instructor: Holshue,Lucinda A

Description: Student may contact the instructor or department for information.

TH 1393 BFA Movement I

A-F only, 2 credit(s); prereq BFA-acting major;

Instructor: Lorca,Marcella Kingman

Description: Student may contact the instructor or department for information.

TH 1501 Introduction to Design and Technology for Live Performance

A-F only, 3 credit(s); prereq 1101 or Concurrent registration is required (or allowed) in 1101;

Instructor: Gwinup,Martin Bruce

Description: Student may contact the instructor or department for information.

TH 1911W Freshman Seminar: Theatre, Entertainment With Attitude

A-F only, 3 credit(s); prereq Fr with no more than 30 cr;

Meets CLE req of Writing Intensive;

Instructor: Bernstein,David Joseph

Description: Is live performance obsolete? Are art and entertainment the same, as in "A & E"? In this freshman seminar for non-theater majors, we will address these questions by experiencing the power, immediacy, and social relevance of live theater. Our main goal is to use the rich cultural resources of the Twin Cities, supplemented by in-class discussions, talks with theater and dance professionals, and textual readings to develop a critical language - and a critical eye - with which to look at performance. We will attend performances at a variety of local theaters and use the experience of seeing them 'up close and personal' to focus on a number of questions. What does it mean for a theater to be mission-driven rather than market-driven? How does theater reflect social and political issues - and the cultural context in which it was created and/or performed? How, and how well, do acting, scenery, costumes, lighting, and sound combine into a total effect to make a text or concept come alive

on stage? And yes, we will also ask of each production whether or not it engaged and entertained us as audience members. Here is an excellent opportunity to experience live performance and think about its relationship to culture and values. In other words, to experience live theater as more than a way of passing the time on an otherwise boring Thursday night.

Style: 10% Lecture, 40% Discussion. attending theatre productions

Grading: 55% reports/papers, 25% special projects, 20% class participation.

Exam Format: No exams

TH 1950 Topics in Theater: Yoga for the Actor

1 credit(s), max credits 6;

Instructor: Longhi,Kym R

Description: Student may contact the instructor or department for information.

TH 2391 BFA Acting III

A-F only, 3 credit(s); prereq BFA student in theatre arts;

Instructor: Mitchell,Kenneth N

Description: Student may contact the instructor or department for information.

TH 2392 BFA Voice and Speech III

A-F only, 2 credit(s); prereq BFA student in theatre arts;

Instructor: Carlson,Madrid Elisa

Description: Student may contact the instructor or department for information.

TH 2393 BFA Movement III

A-F only, 2 credit(s); prereq BFA student in theatre arts;

Instructor: Lorca,Marcella Kingman

Description: Student may contact the instructor or department for information.

TH 3100 Theatre Practicum

S-N only, 1 credit(s), max credits 4, 4 completions allowed; prereq 1101; only two enrollments as actor may count toward a major;

Instructor: STAFF

Description: Do you want to get involved in production on the Main Season for University Theatre? This is a course that can give you that opportunity. You will be assigned a specific position on a production and get a chance to work on as well as see first hand what goes into a full scale theatrical production. Come and explore the possibilities.

Style: 5% Lecture, 95% Laboratory.

Grading: 5% class participation, 95% laboratory evaluation.

TH 3115 Introduction to Playwriting

3 credit(s);

Instructor: Obolensky,Kira

Description: Student may contact the instructor or department for information.

TH 3171 History of the Theatre: Ancient Greece Through Neo-Classicism

3 credit(s); prereq Th major or instr consent;

Instructor: Kobialka,Michal A

Description: The course focuses on a critical examination of representational practices in the period from Ancient Greece to the French Revolution. While reviewing these representational practices, which materialize as play-texts, performances, theatre architecture, theatre rebellions and regulations, theoretical writings, etc., the students will discuss how they were produced, given intelligibility, and disseminated. What are the consequences of using or promoting these and not other representational practices? In order to answer this question, the students will explore the following questions/issues: the Western origins of theatre and drama, Aristotle's Poetics, the practices of controlling and censoring creative activities in Rome and in Renaissance Italy and England, the emergence of medieval liturgical drama as well as medieval modes of representation, a shift from resemblance oriented visual systems to the neoclassical ideal of the French Academy, the female actors and

playwright in Restoration, the drama and theatre of the long eighteenth century and how they participated in the process of fashioning a new personality/economic type. This course investigates how performance events are brought to our attention, how they are made worthy of notice, and how they are rationalized as significant for theatre history.

Style: 60% Lecture, 40% Discussion.

Grading: 20% class participation, 80% other evaluation. three written essay exams

Exam Format: essay--the student is asked to answer four Questions during the exam.

TH 3314 Text and the Actor

A-F only, 3 credit(s); prereq 1101, 1321, 1322;

Instructor: Nash,Elizabeth

Description: This course focuses on the art of dynamic interpretation in the theatre. Our goal is to explore a wide range of dramatic forms and styles accompanied by lectures to set them in historical perspective. Along with the annotation and performance of monologues, there will be in-class viewings of Zoe Caldwell's MEDEA, Ian McKellan's ACTING SHAKESPEARE, Kenneth Branagh's MUCH ADO ABOUT NOTHING, Anthony Sher's TARTUFFE and Keira Knightley's PRIDE AND PREJUDICE. Periods to be addressed will be classical Greek, Shakespeare, high comedy, and modern stylized drama. Due to the ensemble and performing emphasis of this course, attendance is required and will figure in grading. By the end of the course, you will have the ability to interpret with confidence challenging texts of heightened language covering a period of 2,500 years.

Style: 10% Lecture, 10% Film/Video, 20% Discussion, 60% Student Presentation.

Grading: 100% class participation.

Exam Format: presentations

TH 3316 Voice for the Actor

A-F only, 3 credit(s); prereq 1101, 1321, 1322;

Instructor: Nash,Elizabeth

Description: The student will be taught anatomy and physiology of the vocal mechanism and respiratory system, abdominal breathing, forward tonal placement, clear articulation of consonants, vocal projection and pitch range, IPA phonetic transcription and vowel standardization for American Standard Stage Speech. These techniques will be applied to the performance of dramatic monologues. Due to the ensemble and performing emphasis of this course, attendance is required and will figure in grading.

Style: 10% Discussion, 90% Student Presentation.

Grading: 100% special projects.

Exam Format: presentations

TH 3331 Physical Approaches to Acting

3 credit(s); prereq 1322, [3314 or Concurrent registration is required (or allowed) in 3314], [3316 or Concurrent registration is required (or allowed) in 3316], audition;

Instructor: Seifert,Luverne G

Description: Physical approaches to acting will intensely explore the psychophysical methodology of Jacques Lecoq with emphasis on neutral mask, acrobatics, commedia, clowning and buffooning. The course will investigate poetic, tragic and playful performance through the analysis of movement and gesture. Students will create solo and collaborative performances. Entrance is by audition after completion of 1321 Fundamentals of Performance and 1322 Creating the Performance. Required reading: The Moving Body by Jacques Lecoq, Invisible Cities by Italo Calvino and selected plays and readings.

Style: 10% Lecture, 10% Discussion, 80% Laboratory.

Grading: 20% reports/papers, 30% in-class presentation, 50% class participation.

TH 3571 Introduction to Stage Technology

A-F only, 3 credit(s); prereq 1501;

Instructor: Gwinup,Martin Bruce

Description: Student may contact the instructor or department for information.

TH 4177W Survey of Dramatic Literature I: Strategic Interpretation

3 credit(s); prereq [[3171, 3172], [jr or sr]] or instr consent;
Meets CLE req of Writing Intensive;
Instructor: Werry, Margaret L
Description: Student may contact the instructor or department for information.

TH 4321 Career Preparation for the Actor

3 credit(s); prereq 3322;
Instructor: Diercks, Shirley V
Description: A comprehensive look at the world of Theatre that awaits today's young graduates. This class is intended to provide exposure to the myriad paths available to theatre majors upon completion of their formal education. The class will be comprised of discussions with varying personalities who have achieved a modicum of "success" measured by their own ambitions as well as the standards set by our profession. Students will also venture into the community at large and interview a specialist of their choosing and submit a written report as well as make a formal class presentation. We will also be devoting significant time in and outside of class to research the necessary tools of the trade - photos, resumes, contact sheets, and of utmost importance, the student's audition materials.
Style: 10% Lecture, 20% Discussion, 30% Laboratory, 30% Student Presentation, 10% Guest Speakers.
Grading: 30% attendance, 10% journal, 30% in-class presentation, 30% laboratory evaluation. This class is a laboratory/skill improvement class, and participation is key. Growth in performing for a professional career in Theatre and all related fields of opportunity.

TH 4322 Acting for the Camera

3 credit(s); prereq 1301 or 3321;
Instructor: Diercks, Shirley V
Description: This is a valuable course to help the actor/student interested in film, to find, through varied assignments their adaptability to the camera. The participant should be prepared to be on-camera most class days. We will assign storytelling, editorial presentation, industrial exercises, and finally performance in a short film scene with full preparation as to memory, scenic design and props, appropriate lighting and setting. There will be a crew of students to assist the Professor and TA in these productions. All will be followed by the student participation in the editing process of their own work. Welcome to the world of the camera Shirley Venard
Grading: 10% reports/papers, 10% quizzes, 60% in-class presentation, 20% class participation. "It is unnecessary to give a percentage amount to 'attendance' as none of the above percentages will be possible if you are not there."
Exam Format: Quizzes and then a final paper to serve as an exam.

TH 4380 Creative Collaboration

1-3 credit(s), max credits 12, 4 completions allowed; prereq
Audition, interview, instr consent ;
Instructor: STAFF
Description: Creative Collaboration students will explore multi-disciplinary creation and community building theater techniques while working together to create an original performance. The class will be led by Maren Ward of Bedlam Theatre, an experimental community based theater located on the West Bank. Well versed in creative collaboration, the Bedlam company has produced a wide range of exciting work including Terminus - a sci-fi extravaganza with revolving cardboard spaceship surrounding the audience, Unhinged- a feminist horror show, and the annual Barebones Halloween Show - a community created outdoor nighttime spectacle of larger than life puppets, originally composed live music, theater, dance and pyrotechnics. Bedlam's most recent hit, conceived and directed by Ms. Ward, was West Bank Story - an original musical about the West Bank neighborhood. The collaboration class will be following up on some of the connections made during this project and creating a new community based, site-specific performance. Students will have an opportunity to engage in an artistic dialogue with students and guest speakers from the following

courses: Place, Politics and Memory (geography), Urban Design, Arts and Social Engagement (visual arts) and Performance and Social Change - (theater arts)

TH 4391 BFA Intensive II

A-F only, 2 credit(s); prereq BFA student in theatre arts;
Instructor: Lorca, Marcella Kingman
Description: Student may contact the instructor or department for information.

TH 4393 BFA Rehearsal and Performance III

A-F only, 2 credit(s); prereq BFA student in theatre arts;
Instructor: Mitchell, Kenneth N
Description: Student may contact the instructor or department for information.

TH 4394 BFA Rehearsal and Performance IV

A-F only, 2 credit(s); prereq BFA student in theatre arts;
Instructor: Mitchell, Kenneth N
Description: Student may contact the instructor or department for information.

TH 4532 Makeup for the Actor

2 credit(s);
Instructor: Bundick, Theresa Jane
Description: Student may contact the instructor or department for information.

TH 4555 Audio Technology

3 credit(s);
Instructor: Gwinup, Martin Bruce
Description: Audio Technology is a course which delves into the areas of Sound and acoustics and the technology to manipulate those elements. The course begins with the discussion and demonstration of sound as a science. From there the course moves into the technology available for the manipulation of sound including, recording, amplification, mixing, effects processing, live reinforcement, and editing. Acoustic principles are also discussed. The course involves lecture, demonstration, laboratory, and theory. Projects require the student to work in the recording studio and gain hands on experience working with current audio technology. The course has no prerequisites. The course is open to anyone interested and often includes students from Music, Studio Arts, Computer Science, and Engineering as well as Theatre. This course is a prerequisite to TH5550 Sound Design, TH4557 Audio for Film/Video, TH5558 Audio Systems Analysis and Installation and is recommended before taking Th4-556 Digital Audio and MIDI in Performance and TH5554 Multimedia for Live Performance.
Style: 60% Lecture, 25% Demonstration, 15% Studio.
Grading: 15% mid exam, 15% final exam, 60% special projects, 5% quizzes, 5% written homework.

TH 4905H Honors: Tutorial Seminar in Theatre Arts

A-F only, 2-4 credit(s), max credits 4, 1 completion allowed; prereq =4905; honors, theatre arts, dept consent; limit [2 cr for [cum laude or magna cum laude], 4 cr for summa cum laude];
Instructor: STAFF
Description: Student may contact the instructor or department for information.

TH 5100 Theatre Practicum

1-4 credit(s), max credits 20, 10 completions allowed; prereq
instr consent, dept consent; 4 cr of 3100 for undergrads;
Instructor: STAFF
Description: Individual creative projects in production of approved plays as an actor, director, dramaturg or playwright.

TH 5179 Text and Performance

A-F only, 3 credit(s); prereq [1322, [3171 or 3172]] or grad student;
Instructor: Channer, Lisa E
Description: Student may contact the instructor or department for information.

TH 5340 Tragedy/Poetry: Advanced Physical Performance Studio
A-F only, 3 credit(s), max credits 6; prereq [3322, 3331, grad student] or instr consent ;
Instructor: Berlovitz,Barbra Ann
Description: Student may contact the instructor or department for information.

TH 5355 Puppetry: Techniques and Practice in Contemporary Theater
3 credit(s); prereq [[3513 or &3513], instr consent] or grad student;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

TH 5500 Theatre Design Practicum
1-3 credit(s), max credits 20, 10 completions allowed; prereq 3515, instr consent, dept consent;
Instructor: STAFF
Description: Individual projects in production of approved plays as a designer for scenery/properties, costumes, lighting or sound.
Style: 100% Laboratory.
Grading: 100% other evaluation. final production and prep work

TH 5510 Drawing, Rendering, and Painting for the Theatre Designer I
3 credit(s); prereq 3515 or grad or instr consent;
Instructor: Lefebvre,Mathew James
Description: Student may contact the instructor or department for information.

TH 5520 Scene Design
3 credit(s), max credits 9, 3 completions allowed; prereq 3515 or grad or instr consent;
Instructor: Sass,Joel D
Description: Student may contact the instructor or department for information.

TH 5530 Costume Design
3 credit(s), max credits 9, 3 completions allowed; prereq 3515 or grad or instr consent;
Instructor: Lefebvre,Mathew James
Description: Student may contact the instructor or department for information.

TH 5540 Lighting Design for the Theatre
3 credit(s), max credits 9, 3 completions allowed; prereq 3515 or grad or instr consent;
Instructor: Dilliard,Marcus F
Description: Student may contact the instructor or department for information.

TH 5580 Costume Technology
3 credit(s), max credits 15, 5 completions allowed; prereq 3515 or grad or instr consent ;
Instructor: Binder-Pettigrew,Susan M
Description: Spring Semester's emphasis is Draping. The student will gain working knowledge of pattern making using a technique where in a pattern is achieved by draping and manipulating fabric directly on a dressmaker's form.

TH 5590 Theatre Technology Practicum
1-3 credit(s), max credits 15, 15 completions allowed; prereq 3515, instr consent, dept consent; 4 cr max for undergrads;
Instructor: STAFF
Description: Individual creative projects in the technology or craft areas of theatre that further practical skills or knowledge in the fields of costum, lighting, makeup, props, scenery, sound, or theatre management.

TH 5716 Stage Management for the Theatre
4 credit(s); prereq [1101, 1321, soph] or grad;
Instructor: Swartwout,Christine M

Description: Student may contact the instructor or department for information.

TH 5718 Principles of Arts Management
3 credit(s); prereq instr consent ;
Instructor: Horejsi,Brooke
Description: This course is designed to provide an overview of the structure in which non-profit arts organizations are based. Topics of inquiry include, but are not excluded to, organizational concept, mission, structure, budgetary considerations and financial planning, marketing, and development (fundraising, grant writing, board relations) strategies. Class assignments include: assigned readings, from both the required text and supplemental readings as provided by your instructor; Class Evaluations include: the analysis and discussion of case studies, from both printed and on-line resources.(20%); participation within class discussions with guest professionals from the Twin Cities arts community. (20%); attendance at field trips to professional arts organizations (part of 20% above); mid-term conference (10%); final project presentation (50%) Graduate students and upper-level undergraduate students who are exploring arts management through journalism (PR), business, public policy and affairs, all arts disciplines are encouraged to take this course. BIS, IDIM, MLS and MPA and Non-Profit Management degrees are particularly good fits for this course.
Style: 30% Lecture, 50% Discussion. In class exercises and project synthesis

TH 5718 Principles of Arts Management
3 credit(s); prereq instr consent ;
Instructor: Hansen,Kathleen Louise
Description: This course is designed to provide an overview of the structure in which non-profit arts organizations are based. Topics of inquiry include, but are not excluded to, organizational concept, mission, structure, budgetary considerations and financial planning, marketing, and development (fundraising, grant writing, board relations) strategies. Class assignments include: assigned readings, from both the required text and supplemental readings as provided by your instructor; Class Evaluations include: the analysis and discussion of case studies, from both printed and on-line resources.(20%); participation within class discussions with guest professionals from the Twin Cities arts community. (20%); attendance at field trips to professional arts organizations (part of 20% above); mid-term conference (10%); final project presentation (50%) Graduate students and upper-level undergraduate students who are exploring arts management through journalism (PR), business, public policy and affairs, all arts disciplines are encouraged to take this course. BIS, IDIM, MLS and MPA and Non-Profit Management degrees are particularly good fits for this course.
Style: 30% Lecture, 50% Discussion. In class exercises and project synthesis

TH 5760 Advanced Stage Management
2-3 credit(s), max credits 3, 1 completion allowed; prereq 5716 or concurrent enrollment 5716, instr consent; [4 cr max for undergrads];
Instructor: Swartwout,Christine M
Description: Student may contact the instructor or department for information.

TH 5950 Topics in Theatre: The Washburn Project
3 credit(s), max credits 20, 20 completions allowed;
Instructor: Seifert,Luverne G
Description: Student may contact the instructor or department for information.

TH 5993 Directed Study
1-5 credit(s), max credits 20, 20 completions allowed; prereq 6 Th cr, instr consent, dept consent, college consent;
Instructor: STAFF
Description: Guided individual reading or study.

TH 8102 Theatre Historiography
3 credit(s);
Instructor: Kobialka,Michal A

Description: Student may contact the instructor or department for information.

TH 8120 Seminar

3 credit(s), max credits 12, 4 completions allowed;

Instructor: Kuflinec, Sonja

Description: TH 8120 Arts-Based Action Research: Performing Civic Engagement How might graduate students with interests in public arts and civic engagement effectively and ethically develop dialogic relationships with communities of shared interest, location, and/or values? How might we contextualize these dialogic practices within a history of critical pedagogy (Paulo Freire, bell hooks, Miles Horton), decolonizing philosophies (Frantz Fanon, Aime Cesaire, Ngugi wa Thiong'o, Linda Tuhiwai Smith, Chela Sandoval), and contemporary civic arts practices (Augusto Boal, Suzanne Lacy, Zakes Mda, Judy Baca)? How do we connect this published history to practice-based theories generated within, around, and beyond the Twin Cities? This course invites an interdisciplinary cohort of students with research interests in arts-based community development or civic engagement to build individual and communal praxis through participatory workshops, critical readings, reflections, and discussions. Together we will work out and critique reflexive methodologies in conversation with each other, with various critical theorists, and with local practitioners such as Marlina Gonzalez (curator of civically engaged digital storytelling/independent programs consultant for Intermedia Arts), Mona Smith (multimedia Dakota artist), and Sandy Agustin (artistic director with Neighborhood House St. Paul). We will focus on building practical facilitation and documentary skills, critical analyses and assessments, and dialogic relationships with community partners. Students will have the opportunity to work on their own ongoing practice-based research projects, to generate, and/or to support projects in collaboration with other students and local communities. Prof. Sonja Kuflinec has worked with performance as a medium for community engagement, intercultural communication, and conflict transformation since 1989. Selected publications include *Staging America: Cornerstone and Community-Based Theatre* (SIU Press 2003), numerous articles on ethics, activism, and the arts, and the forthcoming *Theatre, Facilitation and Nation Formation in the Balkans and Middle East* (Palgrave Macmillan 2009).
Style: 25% Discussion, 30% Small Group Activities, 25% Student Presentation, 10% Guest Speakers, 10% Web Based. Students will be encouraged to attend outside of class events.
Grading: 25% reports/papers, 25% special projects, 10% written homework, 20% in-class presentation, 20% class participation.

TH 8950 Topics in Theatre: Theatre Pedagogy & Professionalization

2 credit(s), max credits 8;

Instructor: Werry, Margaret L

Description: Student may contact the instructor or department for information.

Therapeutic Radiology

M-26 Masonic Cancer Ctr (Box 494)

TRAD 8204 Tumor Clinic Conference

0 credit(s);

Instructor: Dusenbery MD, Kathryn E

Description: Student may contact the instructor or department for information.

TRAD 8240 Radiation Therapy Conference

0 credit(s);

Instructor: Lee, Chung Kyu

Description: Student may contact the instructor or department for information.

TRAD 8310 Fundamentals of Radiation Therapy

1 credit(s);

Instructor: Lee, Chung Kyu

Description: Student may contact the instructor or department for information.

TRAD 8320 Radiation Therapy Treatment Planning Problems

1 credit(s);

Instructor: Orner MD, James B

Description: Student may contact the instructor or department for information.

TRAD 8325 Radiation Therapy Pediatrics Oncology

1 credit(s);

Instructor: Dusenbery MD, Kathryn E

Description: Student may contact the instructor or department for information.

TRAD 8350 Research: Radiation Therapy

1-15 credit(s), max credits 15, 1 completion allowed;

Instructor: Dusenbery MD, Kathryn E

Description: Student may contact the instructor or department for information.

TRAD 8450 Research: Radiation Biology

1-15 credit(s), max credits 15, 1 completion allowed;

Instructor: Ritenour, E Russell

Description: Student may contact the instructor or department for information.

TRAD 8550 Research: Radiological Physics

1-15 credit(s), max credits 15, 1 completion allowed;

Instructor: Gerbi PhD, Bruce John

Description: Student may contact the instructor or department for information.

Toxicology

244 Veterinary Diagnostic Lab

TXCL 5195 Veterinary Toxicology

A-F only, 3 credit(s); prereq Grad student or instr consent; Credit will not be granted if credit has been received for: CVM 6195;

Instructor: Murphy, Michael J

Description: Student may contact the instructor or department for information.

TXCL 8013 Advanced Toxicology II

A-F only, 3 credit(s); prereq 8012, BioC 4332, Phsl 5062 or Phsl 6101 or instr consent;

Instructor: Murphy, Michael J

Description: Student may contact the instructor or department for information.

TXCL 8100 Investigative Toxicology

A-F only, 1 credit(s), max credits 2; prereq 8013 or instr consent;

Instructor: Wallace, Kendall B.

Description: Student may contact the instructor or department for information.

Translation and Interpreting

101 Wesbrook Hall

TRIN 1201 Health Care Terms and Concepts for Interpreters

A-F only, 3 credit(s);

Instructor: Meininger, Eric Thomas

Description: Student may contact the instructor or department for information.

TRIN 1301 Legal Terms and Concepts for Interpreters

3 credit(s);

Instructor: Arnold, Valerie Ann Downing

Description: Student may contact the instructor or department for information.

TRIN 3001 Introduction to Translation

3 credit(s); prereq Bilingual proficiency in [English, second language of instruction];

Instructor: STAFF

Description: An introductory course in translation oriented toward the translation of documents written in English into the languages of non-English-speaking residents of our communities. The course includes both theory and supervised practice. As an exercise in re-expressing meaning in a second language, the course provides a solid basis for training in interpreting, as well as for translation.

TRIN 3005 Principles of Translation

3 credit(s); prereq Fluent in English, proficient in a second language, not in CCE certificate prog in interpreting; basic knowledge of English grammar recommended;

Instructor: Bogoslaw, Laurence Hersche

Description: Introduces students to key linguistic principles that help us understand how language makes meaning. Examines ways to apply these principles to translation. Designed for students working in languages not covered by lab sections in other TrIn courses. Does not count towards CCE's Certificate Program in Interpreting.

TRIN 3101 Introduction to Interpreting

3 credit(s); prereq high level of proficiency in spoken English and another language; 3001 recommended;

Instructor: STAFF

Description: A practical and theoretical introduction to interpreting in health, human service, and legal settings. Emphasis on understanding the unique role of the interpreter, current models and modes of interpreting, ethical issues and professional standards of practice, and developing skills in understanding and analyzing spoken language.

TRIN 5993 Directed Study

1-3 credit(s), max credits 3, 1 completion allowed;

Instructor: Downing, Bruce T

Description: Student may contact the instructor or department for information.

Turkish

214 Nolte Center

TURK 1001 Beginning Turkish I

5 credit(s); Credit will not be granted if credit has been received for: TURK 4001;

Instructor: Colak, Zuleyha

Description: Student may contact the instructor or department for information.

TURK 3001 Intermediate Turkish I

5 credit(s); prereq 1002 or instr consent ; Credit will not be granted if credit has been received for: TURK 4003;

Instructor: Colak, Zuleyha

Description: Student may contact the instructor or department for information.

TURK 3900 Topics in Turkish Language, Literature, and Culture: Advanced Turkish and Ottoman I

4 credit(s), max credits 12, 3 completions allowed;

Instructor: Colak, Zuleyha

Description: Student may contact the instructor or department for information.

TURK 4001 Beginning Turkish I

3 credit(s); prereq 4th sem course in another language or grad student; Credit will not be granted if credit has been

received for: TURK 1001;

Instructor: Colak, Zuleyha

Description: Student may contact the instructor or department for information.

TURK 4003 Intermediate Turkish I

3 credit(s); prereq [4002, 4th semester course in another language] or grad student; Credit will not be granted if credit has been received for: TURK 3001;

Instructor: Colak, Zuleyha

Description: Student may contact the instructor or department for information.

TURK 5900 Topics in Turkish Language, Literature, and Culture: Advanced Turkish and Ottoman I

1-4 credit(s), max credits 12, 3 completions allowed;

Instructor: Colak, Zuleyha

Description: Student may contact the instructor or department for information.

University College

20 Classroom Office Building

UC 1485 Creativity: Photography

4 credit(s); prereq Own camera [35 mm w/adjustable controls preferred], UC; \$50 lab fee; Credit will not be granted if credit has been received for: PSTL 1485;

Instructor: Millikan, Jeffrey B

Description: Student may contact the instructor or department for information.

UC 3201 Web Designer Introduction

4 credit(s);

Instructor: Husom, David Harold

Description: See and learn the Web design process by mastering the four phase process of site development: plan, design, produce and publish. Learn design principles, business practices and site analysis. Use industry standard Web design software including Adobe Photoshop, Dreamweaver and Flash to build your own Website. Also get a firm foundation in HTML and CSS. The class includes lectures, exercises, and lab time in a small, hands-on class. No prerequisites or previous experience required. Course notes will be available at the Coffman Bookstore.

Style: 10% Lecture, 10% Discussion, 50% Laboratory, 5% Student Presentation, 25% Demonstration.

Grading: 75% special projects, 10% quizzes, 5% in-class presentation, 10% class participation. Students create a Web site for a final project

UC 5950 Special Topics: Foundations of Addiction Studies

2 credit(s), max credits 16;

Instructor: Van Cleve, Michael

Description:

UC 5950 Special Topics: Introduction to Resilience/Health Realization

2 credit(s), max credits 16;

Instructor: Marshall, Kathy M

Description: This ?short course? includes seven sessions 9/19 ? 10/29, 2008, intentionally suited for working professionals. Credits apply towards Addictions Studies Certification, education lane changes, graduate and undergraduate electives, and a variety of professional continuing education requirements. The class is designed for educators; addiction and prevention specialists; and health, human service and other helping professionals seeking an effective and positive approach to bringing out the best in self, youth, adults, families and whole systems. Course projects are customized to students? personal and professional interests and needs. This course offers an in-depth exploration of Resilience/Health Realization and practical applications of the model in students? personal, professional and organizational lives. Relevant literature, theory

and research are explored with significant focus on practical applications. The course supports personal growth and reflection, and fosters professional development. It becomes a highly interactive, enjoyable, and significant learning community. Objectives include exploration of personal resilience, introduction to resilience research theory and health realization principles while developing a conceptual framework for tapping natural resilience. Students will (1) apply the principles of the resilience/health realization model in personal and professional settings, (2) propose criteria and standards for assessing resilience and healthy development in oneself and others, and (3) synthesize a functional understanding of Resilience/Health Realization by designing a practical application project relevant to the individual student. Former participants report this learning has "changed my life," should be "required of all UM students" and "takes the stress and burden out of being a helping professional." One end-stage doctoral student said, "I had hit bottom and thought I would never be a counselor. I was just too burned out and I was not being taught to do what my heart knew was essential. My hope and enthusiasm for what I had always dreamed of being able to do have been restored as a result of this learning." Instructor Kathy Marshall has directed substance abuse prevention and community-based system change efforts for more than 30 years, and heads the UM National Resilience Resource Center in the College of Continuing Education. She reports consistently common outcomes for professionals who gain a functional understanding of Resilience/Health Realization. These are: "increased personal reflection, improved sense of personal well-being (physical to emotional), improved relationships with others, and increased satisfaction in the workplace. In a nutshell, people find their natural resilience and navigate life more successfully. This personal change transforms how they work with clients and students."

Style: 20% Lecture, 10% Film/Video, 30% Discussion, 20% Small Group Activities, 20% Student Presentation. Dates: 4:30-7:30 9/19(F), 24(W), 10/8(W), 24(F), 29(W) & two Saturdays 9-4:30 on 9/20 & 10/18. Contact Kathy Marshall, marsh008@umn.edu, for details. To register, contact Sara Cook, 612-625-2088. For ideal learning, seminar seats are limited. **Grading:** 80% reports/papers, 20% class participation. May be taken S/N, graded or audited graduate or undergraduate. **Exam Format:** None

provide additional insight about U. S. cities. The course requires fieldwork and is writing intensive (3 cr.). Taught fall and spring.

URBS 3201 Urban Studies Colloquium

A-F only, 1 credit(s), max credits 4, 4 completions allowed; prereq dept consent; Instructor: STAFF

Description: Sec 003 Corridor and redevelopment studies play an important role in planning, land use and development within large and small communities. This course will explore the inter-relationship that public realm, housing and redevelopment, transportation, economics and social issues play in creating a sense of place among corridors. During this course we will examine each of these elements and how they function within the greater context of a corridor. Mike Darrow is a planner with SEH

URBS 3301W American Cities As Settings for Cultural Diversity 3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Writing Intensive;

Instructor: Pentel, Paula R

Description: What do ethnic restaurants, murals, office towers, houses, malls and corner stores tell us about the cultural evolution of urban areas? How does institutional planning enable or constrain expressions of culture? American Cities as Settings for Cultural Diversity is a dynamic, interactive course, which gives students a chance to apply classroom learning to a creative semester project. In all city landscapes, urban and suburban, the imprint of arts, ethnicity, race, gender, age, religion and class are visible. The goal of this course is to enable students to comprehend how and why our cities reflect these differences, and to see how places change over time due to various cultural influences. The impact of cultural diversity can be inequity, or it can suggest a celebration of place. So, bring your creative mind and be prepared to develop your analytical gaze.

URBS 3301W American Cities As Settings for Cultural Diversity 3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Writing Intensive;

Instructor: Brinda, Mark Richard

Description: What do ethnic restaurants, murals, office towers, houses, malls and corner stores tell us about the cultural evolution of urban areas? How does institutional planning enable or constrain expressions of culture? American Cities as Settings for Cultural Diversity is a dynamic, interactive course, which gives students a chance to apply classroom learning to a creative semester project. In all city landscapes, urban and suburban, the imprint of arts, ethnicity, race, gender, age, religion and class are visible. The goal of this course is to enable students to comprehend how and why our cities reflect these differences, and to see how places change over time due to various cultural influences. The impact of cultural diversity can be inequity, or it can suggest a celebration of place. So, bring your creative mind and be prepared to develop your analytical gaze.

URBS 3500 Urban Studies Workshop

A-F only, 3 credit(s), max credits 9, 3 completions allowed; prereq instr consent ;

Instructor: STAFF

Description: URBS 3500 Urban Studies Workshops sec -001 Revitalization: Planning and Implementation, 06:30 P.M. - 09:30 P.M. M (01/22/2008 - 05/09/2008) 3 credits This workshop examines what it takes to revitalize neighborhoods or commercial areas in disadvantaged communities. This is a daunting challenge because of the multiple and inter-related dynamic factors that perpetuate the disadvantaged condition. As a class, we will work to understand the nature of that challenge, and we will explore and discuss a toolkit of analytical methods, development and business strategies, and organizational approaches that can be instrumental in overcoming barriers and fostering positive change. Students will develop a case study that examines a successful revitalization process, and identifies the planning and implementation elements that were most pivotal in that process. Tom Leighton, AICP is a principal planner with

Urban Studies

348 Social Sciences Building

URBS 1001W Introduction to Urban Studies: The Complexity of Metropolitan Life

A-F only, 3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Writing Intensive;

Instructor: Martin, Judith A

Description: This course is an overall introduction to the field of Urban Studies. It draws from a number of different disciplines which contribute to the study of cities, and tries to promote an understanding of the complexity of urban environments. The course ranges from historical considerations of cities to contemporary problem areas, and promotes active learning on the part of students.

URBS 3001W Introduction to Urban Studies: The Complexity of Metropolitan Life

A-F only, 3 credit(s); prereq =1001; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Writing Intensive;

Instructor: Martin, Judith A

Description: This course is cross listed with UrbS 1001. Students may register for either level. Drawing from multiple disciplines, this course examines the complexities of urban and metropolitan environments. A breadth of topics is covered amid changing social, political and economic contexts including governance, technology, planning and design concepts, investment and uneven development, citizen activism and cultural representations in art and film. International comparisons

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 3861 Financing Cities

A-F only, 3 credit(s);

Instructor: Kayzar,Brenda

Description: An expectation exists among residents of cities that certain services will be provided and an acceptable quality of life will be maintained, regardless of funding shortfalls or expanding municipal financial obligations. Through readings, lecture, discussion, and coursework you will learn about the numerous services and projects cities provide or initiate and the innovative ways they finance them. You will also examine the ways in which non-governmental actors such as developers and consumers participate in urban development and community building through the use of various policies and financial tools. As a result, you will be able to comprehend the challenges cities face in determining socially equitable and fiscally responsible budgets, and understand the difficulties associated with civic responsibility.

Style: 50% Lecture, 10% Film/Video, 20% Discussion, 10% Student Presentation, 10% Guest Speakers.

Grading: 40% reports/papers, 30% special projects, 5% in-class presentation, 25% class participation. 'term' quizzes included in class participation total

Exam Format: Two smaller 'discussion' projects and one individual semester project, two 'term' quizzes.

URBS 3900 Urban Studies Internship Seminar

A-F only, 2 credit(s), max credits 4; prereq Sr, internship placement, dept consent, instr consent;

Instructor: Pentel,Paula R

Description: This weekly seminar integrates a student's internship experience with their academic program. This course is appropriate for any student completing an internship that has an urban focus. Students must have their internships secured prior to the beginning of the term, and must speak to Paula Pentel prior to registering. The course has five short assignments designed to have the students reflect critically on their internship experience. Additionally a journal is required. Class discussions are held around the assignments and some are student-led discussions.

Style: 10% Lecture, 90% Discussion.

URBS 3955W Senior Paper Seminar

A-F only, 2 credit(s); prereq dept consent ; Meets CLE req of Writing Intensive;

Instructor: Martin,Judith A

Description: This seminar is intended for urban studies seniors who are undertaking their senior papers. Methods and resources for research will be the focus and significant writing will be expected. Students will share experiences, work on drafts, and should expect to have a first draft completed well before the term. Students should have a paper proposal ready before taking the class (paragraph describing the paper) Judith Martin

URBS 3993 Urban Studies Directed Study

A-F only, 2-3 credit(s), max credits 6, 3 completions allowed;

prereq UrbS majors, instr consent, dept consent;

Instructor: STAFF

Description: For students with a specific educational objective that cannot be satisfied through regular curriculum (e.g., foreign study) and for honors students to complete an honors opportunity.

URBS 5861 Financing Cities

A-F only, 3 credit(s);

Instructor: Kayzar,Brenda

Description: Student may contact the instructor or department for information.

Urdu

453 Folwell Hall

URDU 3131 Intermediate Urdu

5 credit(s); prereq 1102 or instr consent;

Instructor: Latif,Riyaz

Description: Student may contact the instructor or department for information.

URDU 4003 Intermediate Urdu

3 credit(s); prereq 1102 or 4002;

Instructor: Latif,Riyaz

Description: Student may contact the instructor or department for information.

URDU 5990 Directed Research

1-5 credit(s), max credits 10; prereq instr consent , dept consent , college consent ;

Instructor: Sahota,G.S.

Description: Student may contact the instructor or department for information.

URDU 5993 Directed Readings

1-5 credit(s), max credits 10; prereq instr consent , dept consent , college consent ;

Instructor: Sahota,G.S.

Description: Student may contact the instructor or department for information.

Veterinary & Biomedical Sciences

VBS 2032 General Microbiology with Laboratory

4 credit(s); prereq [CHEM 1011, one semester college biology] or instr consent, primarily for non-microbiology majors; Credit will not be granted if credit has been received for: MICB 3301;

Instructor: Isaacson,Richard

Description: Student may contact the instructor or department for information.

Veterinary Clinical Sciences

C-339 Veterinary Teaching Hospital

VCS 4600 Small Animal and Equine Behavior

A-F only, 3 credit(s);

Instructor: Fonseth,Sherry

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; prereq [One-page proposal, bibliography of works to be read] submitted to faculty;

Instructor: Modiano,Jaime

Description: Student may contact the instructor or department for information.

VCS 4993 Directed Study in Veterinary Clinical Sciences
A-F only, 1-6 credit(s), max credits 12; prereq One-page proposal submitted to faculty member;

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; prereq One-page proposal submitted to faculty member;

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 5093 Directed Studies in Population Medicine

A-F only, 1-4 credit(s), max credits 8; prereq Grad student, instr consent ;

Instructor: Goyal,Sagar M

Description: Student may contact the instructor or department for information.

VMED 5190 Seminar and Presentation Development

S-N only, 2 credit(s); prereq Grad student;

Instructor: Godden,Sandra Michele

Description: Student may contact the instructor or department for information.

VMED 5210 Advanced Large Animal Physiology I

1-3 credit(s), max credits 6;

Instructor: Malone,Erin

Description: Student may contact the instructor or department for information.

VMED 5232 Comparative Clinical Veterinary Dermatologic Pathology

S-N only, 1 credit(s), max credits 2; prereq DVM degree or foreign equiv;

Instructor: Torres,Sheila Mello

Description: Student may contact the instructor or department for information.

VMED 5242 Advanced Small Animal Pathobiology III

A-F only, 1 credit(s); prereq CVM grad student, [DVM or foreign equivalent] degree;

Instructor: Patterson DVM,Ned

Description: Student may contact the instructor or department for information.

VMED 5293 Directed Studies in Comparative Medicine and Pathology

A-F only, 1-4 credit(s), max credits 8; prereq Grad student, instr consent;

Instructor: Carlson,Cathy Sue

Description: Student may contact the instructor or department for information.

VMED 5295 Problems in Large Animal Clinical Medicine/Surgery and Theriogenology

A-F only, 1 credit(s), max credits 3, 3 completions allowed;

prereq VMED grad student, possess DVM;

Instructor: Valberg,Stephanie J

Description: Student may contact the instructor or department for information.

VMED 5310 Topics in Veterinary Clinical Pathology

S-N only, 1 credit(s), max credits 2; prereq Grad student in CVM;

Instructor: Sharkey,Leslie Carol

Description: Student may contact the instructor or department for information.

VMED 5319 Veterinary Gross Pathology

S-N only, 1 credit(s), max credits 3, 3 completions allowed; prereq Grad student in CMB or [VMED, [DVM degree or foreign equivalent], college consent];

Instructor: Wuenschmann,Arno

Description: Student may contact the instructor or department for information.

VMED 5330 Veterinary Descriptive Histopathology

1 credit(s), max credits 2; prereq Grad student in VMED or [CMB, [DVM degree or foreign equiv]] or instr consent ;

Instructor: Armien,Anibal Guillermo

Description: Student may contact the instructor or department for information.

VMED 5380 Veterinary Diagnostic and Comparative Pathology

A-F only, 2 credit(s), max credits 4; prereq [DVM/VMD or equiv degree] from a foreign institution, [resident or grad student] in [veterinary anatomic or clinical pathology], instr consent ;

Instructor: O'Brien,Timothy David

Description: Student may contact the instructor or department for information.

VMED 5395 Problems in Veterinary and Comparative Pathology

A-F only, 3 credit(s); prereq Grad student in CVM, [DVM degree or foreign equiv];

Instructor: O'Brien,Timothy David

Description: Student may contact the instructor or department for information.

VMED 5410 Scientific Writing and Speaking

A-F only, 2 credit(s); prereq Grad student in health sciences;

Instructor: Goyal,Sagar M

Description: Student may contact the instructor or department for information.

VMED 5493 Directed Studies in Infectious Disease

A-F only, 1-4 credit(s), max credits 8; prereq Grad student, instr consent ;

Instructor: Dee,Scott Allen

Description: Student may contact the instructor or department for information.

VMED 5496 Training in Swine Production and Management

S-N only, 4 credit(s); prereq VMED grad student or instr consent ;

Instructor: Dee,Scott Allen

Description: Student may contact the instructor or department for information.

VMED 5596 Swine Diseases and Diagnostics

2-3 credit(s);

Instructor: Joo,Han Soo

Description: Student may contact the instructor or department for information.

VMED 5670 Bovine Surgery Practicum

S-N only, 2 credit(s); prereq [VMed grad student, [DVM or equiv foreign degree]] or instr consent ;

Instructor: Malone,Erin

Description: Student may contact the instructor or department for information.

VMED 5691 Independent Research in Veterinary**Anesthesiology**

A-F only, 1-6 credit(s), max credits 6, 1 completion allowed; prereq [Biology major or prevet or vet or grad student], instr consent ;

Instructor: Mandsager DVM,Ron E

Description: Student may contact the instructor or department for information.

VMED 5693 Directed Studies in**Surgery/Radiology/Anesthesiology**

A-F only, 1-4 credit(s), max credits 8; prereq Grad student, instr consent ;

Instructor: Pluhar,Liz

Description: Student may contact the instructor or department for information.

VMED 8134 Ethical Conduct of Animal Research

A-F only, 3 credit(s); prereq [Grad or professional school] student or instr consent ; Credit will not be granted if credit has been received for: ANSC 8134;

Instructor: Molitor,Thomas William

Description: Student may contact the instructor or department for information.

VMED 8201 Advanced Small Animal Veterinary Medicine

A-F only, 1-5 credit(s), max credits 5, 1 completion allowed; prereq instr consent;

Instructor: Polzin,David J

Description: Student may contact the instructor or department for information.

VMED 8202 Internal Medicine in Small Companion Animals

A-F only, 1-3 credit(s), max credits 3, 1 completion allowed; prereq instr consent;

Instructor: Polzin,David J

Description: Student may contact the instructor or department for information.

VMED 8203 Advanced Diagnosis and Therapeutics of Animal Disease

A-F only, 1-2 credit(s), max credits 2, 1 completion allowed; prereq instr consent ;

Instructor: Osborne,Carl A

Description: Student may contact the instructor or department for information.

VMED 8210 Seminar: Veterinary Medicine

1 credit(s); prereq instr consent;

Instructor: Polzin,David J

Description: Student may contact the instructor or department for information.

VMED 8220 Advanced Nephrology/Urology Clinics

1-3 credit(s), max credits 3, 1 completion allowed; prereq instr consent ;

Instructor: Polzin,David J

Description: Student may contact the instructor or department for information.

VMED 8230 Medical Conference

1-3 credit(s), max credits 3, 1 completion allowed; prereq instr consent;

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; prereq instr consent;

Instructor: Valberg,Stephanie J

Description: Student may contact the instructor or department for information.

VMED 8293 Advanced Studies in Nephrology and Urology

A-F only, 1-3 credit(s), max credits 3, 1 completion allowed; prereq instr consent;

Instructor: Lulich PhD,Jody P

Description: Student may contact the instructor or department for information.

VMED 8294 Research Studies in Nephrology and Urology

1-3 credit(s), max credits 3, 1 completion allowed; prereq instr consent;

Instructor: Osborne,Carl A

Description: Student may contact the instructor or department for information.

VMED 8394 Research in Veterinary Medicine

1-3 credit(s), max credits 3, 1 completion allowed; prereq instr consent;

Instructor: Osborne,Carl A

Description: Student may contact the instructor or department for information.

VMED 8396 Diagnostic and Therapeutic Techniques of Animal Diseases

1-3 credit(s), max credits 6, 6 completions allowed; prereq DVM student, vet med student, instr consent;

Instructor: Ames DVM,Trevor Richmond

Description: Student may contact the instructor or department for information.

VMED 8492 Seminar: Infectious Diseases and Swine Medicine

1 credit(s), max credits 2;

Instructor: Molitor,Thomas William

Description: Student may contact the instructor or department for information.

VMED 8494 Research in Infectious Diseases

1-3 credit(s), max credits 3, 1 completion allowed;

Instructor: Joo,Han Soo

Description: Student may contact the instructor or department for information.

VMED 8495 Problems in Infectious Diseases

1-3 credit(s), max credits 3, 1 completion allowed;

Instructor: Joo,Han Soo

Description: Student may contact the instructor or department for information.

VMED 8592 Infectious Disease Journals: Critical Thinking

1 credit(s);

Instructor: Dee,Scott Allen

Description: Student may contact the instructor or department for information.

VMED 8681 Advanced Small Animal Surgery

1-3 credit(s), max credits 3, 1 completion allowed;

Instructor: Pluhar,Liz

Description: Student may contact the instructor or department for information.

VMED 8682 Advanced Large Animal Surgery

A-F only, 1-3 credit(s), max credits 6, 6 completions allowed; prereq DVM or equiv degree, instr consent;

Instructor: Malone,Erin

Description: Student may contact the instructor or department for information.

VMED 8691 Research in Large Animal Surgery

A-F only, 1-6 credit(s), max credits 6, 1 completion allowed; prereq DVM or equiv degree, instr consent ;

Instructor: Trent,Ava M

Description: Student may contact the instructor or department for information.

VMED 8692 Seminar: Small Animal Surgery

A-F only, 1 credit(s);

Instructor: Pluhar,Liz

Description: Student may contact the instructor or department for information.

VMED 8693 Seminar: Large Animal Surgery

A-F only, 1 credit(s), max credits 6, 6 completions allowed; prereq DVM or equiv degree, instr consent;

Instructor: Malone, Erin

Description: Student may contact the instructor or department for information.

VMED 8694 Research in Small Animal Surgery

S-N only, 1-3 credit(s), max credits 3, 1 completion allowed;

Instructor: Pluhar, Liz

Description: Student may contact the instructor or department for information.

VMED 8695 Problems in Large Animal Surgery

A-F only, 1-3 credit(s), max credits 6, 6 completions allowed; prereq DVM or equiv degree, instr consent ;

Instructor: Malone, Erin

Description: Student may contact the instructor or department for information.

VMED 8780 Advanced Avian Critical Care: Principles and Procedures

A-F only, 2 credit(s); prereq Course each in vet pathology, physiology, pharmacology, anatomy, small animal anesthesiology and critical care;

Instructor: Redig, Patrick Thomas

Description: Student may contact the instructor or department for information.

VMED 8791 Research in Veterinary Anesthesia

A-F only, 1-3 credit(s), max credits 3, 1 completion allowed; prereq 8781 or equiv, SACS 5380 or equiv;

Instructor: Graham DVM, Lynelle

Description: Student may contact the instructor or department for information.

VMED 8792 Seminar: Veterinary Radiology

1 credit(s), max credits 6, 6 completions allowed;

Instructor: Feeney, Daniel A

Description: Student may contact the instructor or department for information.

VMED 8793 Seminar: Veterinary Anesthesiology

A-F only, 1-2 credit(s), max credits 2, 1 completion allowed; prereq [CVM 6321 or equiv], DVM degree;

Instructor: Graham DVM, Lynelle

Description: Student may contact the instructor or department for information.

VMED 8794 Research in Veterinary Radiology

1-3 credit(s), max credits 3, 1 completion allowed;

Instructor: Feeney, Daniel A

Description: Student may contact the instructor or department for information.

VMED 8795 Problems: Veterinary Radiology

1-3 credit(s), max credits 6, 6 completions allowed;

Instructor: Feeney, Daniel A

Description: Student may contact the instructor or department for information.

Vietnamese

453 Folwell Hall

VIET 1015 Accelerated Beginning Vietnamese

5 credit(s); prereq Ability in basic spoken Vietnamese;

Instructor: Dang, Nhat Thong

Description: This course is the first of a two semester sequence of beginning Vietnamese: it is for heritage students who have

some background knowledge of Vietnamese or non-Vietnamese students who have some experiences with the language. The learners will be able to speak, read, and write simple sentences, and to understand short paragraphs or stories related to everyday life activities and some notions of history and culture of Vietnam.

Style: 50% Lecture, 20% Discussion. language drills

Grading: 25% final exam, 8% reports/papers, 40% quizzes, 7% class participation, 20% other evaluation. homework

Exam Format: multiple choice, fill in the blank, interview, essay, matching, dictation.

Water Resources Science

173 McNeal Hall

WRS 5241 Ecological Risk Assessment

3 credit(s); prereq instr consent;

Instructor: Andow, David

Description: Student may contact the instructor or department for information.

WRS 8100 Interdisciplinary Seminar in Water Resources

0.5-3 credit(s), max credits 3, 3 completions allowed;

Instructor: Nieber, John Little

Description: Student may contact the instructor or department for information.

WRS 8100 Interdisciplinary Seminar in Water Resources

0.5-3 credit(s), max credits 3, 3 completions allowed;

Instructor: Brown, Erik Thorson

Description: Student may contact the instructor or department for information.

Work and Human Resource Education

330 Wulling Hall

WHRE 3011W Introduction to Technology and Public Ethics

3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Writing Intensive;

Instructor: Davis PhD, Joan Audrey

Description: Student may contact the instructor or department for information.

WHRE 5001 Survey: Human Resource Development and Adult Education

3 credit(s);

Instructor: Twohig, Catherine Carol

Description: Student may contact the instructor or department for information.

WHRE 5011W Technology and Public Ethics

A-F only, 3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Writing Intensive;

Instructor: Davis PhD, Joan Audrey

Description: Student may contact the instructor or department for information.

WHRE 5401 Distance Learning in Adult Education and Training

A-F only, 3 credit(s);

Instructor: Woldeab, Daniel

Description: Student may contact the instructor or department for information.

WHRE 5601 Student and Trainee Assessment

A-F only, 2 credit(s); prereq credit will not be granted if credit received for: BIE 5601; Credit will not be granted if credit has been received for: HRD 5601;

Instructor: Stertz EdD, Tom

Description: Student may contact the instructor or department for information.

WHRE 5628 Multimedia Presentations in Business

3 credit(s); prereq 5011 or equiv;

Instructor: Anderson,Michelle Marie

Description: Student may contact the instructor or department for information.

WHRE 5629 Course Development for Business and Industry

A-F only, 2 credit(s); Credit will not be granted if credit has been received for: HRD 5629;

Instructor: Stertz EdD,Tom

Description: Student may contact the instructor or department for information.

WHRE 5697 Teaching Internship: School and Classroom Settings

2 credit(s); prereq 5696 for initial licensure program;

Instructor: Cudworth,Rachel Beth

Description: Student may contact the instructor or department for information.

WHRE 5697 Teaching Internship: School and Classroom Settings

2 credit(s); prereq 5696 for initial licensure program;

Instructor: Leising,James G

Description: Student may contact the instructor or department for information.

WHRE 5821 Diversity Issues and Practices in Work and Human Resource Education Settings

3 credit(s);

Instructor: Digby,Cynthia LB

Description: Student may contact the instructor or department for information.

WHRE 5901 Using Research in Work and Human Resource Education

3 credit(s);

Instructor: Peterson,Shari L

Description: This course provides an overview of the theory and practice of the quantitative, interpretive, and critical science research paradigms. The focus is practical?how to find, read, evaluate, and interpret published research. This course is intended to supplement and enhance other research courses, and can be taken prior to or following those courses. While statistics will be discussed, the text and class discussions will suffice (e.g., you do not need to have taken a statistics course prior to taking this course). The format is interactive, participatory, and student-centered, and designed to encourage self-directedness. Participants are expected to become involved in their own learning and take responsibility for achieving their own objectives through individual and group activity. Course Objectives: The overarching objective is that students become informed consumers of research; thus the specific objectives are to 1. Identify and distinguish between methodological research paradigms and the types of research questions appropriately addressed by these paradigms; 2. Identify and distinguish between various methods within the paradigms; 3. Identify the nature of data collection and analysis appropriate within various methods; 4. Locate, interpret, and evaluate research; 5. Recognize practical implications of research.

WHRE 8142 Comparative Systems in Work and Human Resource Education

3 credit(s); prereq 8141;

Instructor: Ardichvili,Alexandre A

Description: Student may contact the instructor or department for information.

WHRE 8912 Quantitative Research In Work and Human Resource Education

3 credit(s); prereq 8911;

Instructor: Lambrecht,Judith J.

Description: Student may contact the instructor or department

for information.

WHRE 8915 Ethics and Responsible Research

A-F only, 1 credit(s);

Instructor: Brown PhD,James M

Description: Student may contact the instructor or department for information.

WHRE 8990 Research Seminar

S-N only, 1 credit(s), max credits 6, 6 completions allowed; prereq 8911, [8912 or 8913 or 8914] or dept consent;

Instructor: Brown PhD,James M

Description: Student may contact the instructor or department for information.

Writing Studies

180 Wesbrook Hall

WRIT 1201 Writing Studio

A-F only, 4 credit(s); prereq Placement in Writ 1201; Credit will not be granted if credit has been received for: PSTL 1421;

Instructor: STAFF

Description: WRIT 1201 introduces students to general writing strategies encountered at the college level. Through frequent practice and feedback, students learn to see writing as a tool for learning and a vehicle for expression of ideas and informed views. Students also learn a working vocabulary for discussing writing. Typical assignments include informal writing derived from personal experience, response to readings, analysis and evaluation of sources on the web and in print, and formal papers that increasingly make use of sources as well as close reading of texts. The course emphasizes the active practice of writing, from gathering ideas for a paper, through the drafting of papers, to careful editing. Many sections meet in computer classrooms. Some sections are designated for non-native speakers and are joined to other learning community courses. This course does NOT meet the first-year writing requirement.

Style: 10% Lecture, 15% Discussion. instructor-directed practice of writing related to papers

Grading: 80% reports/papers, 20% class participation.

Percentages may vary slightly by section. Class participation includes required in-class writing

WRIT 1301 University Writing

A-F only, 4 credit(s); prereq Placement in Writ 1301 credit will not be granted if credit already received for 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. Instructor-directed work on writing assignments, including one-to-one conferences.

Grading: 80% reports/papers, 20% class participation. Percentages may vary slightly by section. Class participation includes required in-class writing.

WRIT 1401 Writing and Academic Inquiry

A-F only, 4 credit(s); prereq Placement in Writ 1401 credit will not be granted if credit already received for 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 1511 Writing Studio I

A-F only, 1 credit(s); prereq Only Rochester-admitted students will be able to enroll in this course.;

Instructor: Taniguchi, Yuko

Description: Student may contact the instructor or department for information.

WRIT 1908W Topics: Freshman Seminar: What Is College? Past, Present, Future of Univ

A-F only, 3 credit(s); prereq Fr; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Writing Intensive;

Instructor: Bruch Jr, Patrick Leonard

Description: This seminar will introduce students to the intellectual projects of studying and participating in higher education as a participatory institution by inviting students into critical dialogue with past, present, popular, and academic, representations of higher education and its civic purposes. We will examine the shifting role of the university in public life and the roles that students and other constituencies have played in shaping the character of higher education through writing and other activities. Designed specifically for first-year students, the course will combine academic skill building with personal and collective reflection on the actual and possible purposes and values of higher education for individuals and the society.

WRIT 1910W Topics: Freshman Seminar: Fashioning a World: Magazines in American Culture

3 credit(s); prereq Fr; Meets CLE req of Writing Intensive;

Instructor: Reynolds, Thomas Joseph

Description: From Fashion to Fashioning a World: Magazines in American Culture will provide students who are likely interested in pursuing Journalism, Art, English, Fashion Design and other majors the opportunity to study magazines and other smaller publications as an academic topic. Forms of magazine writing and reading, magazine visuals, magazine production, magazine audience reception, and current forms of 'zines are some of the topics to be discussed and written about in the course. Students

will study both well-known national and international publications as well as local publications. Students will be asked to think about how publications contribute to the making and telling of their own stories, whether as a young person, a gendered person, an immigrant, a member of a particular ethnic/racial group, a person with particular topical interests (gaming, for example) and/or individuals with other markers. Students will learn about a variety of approaches commonly used to study magazines.

WRIT 3001 Introduction to Scientific and Technical Communication

A-F only, 2 credit(s);

Instructor: STAFF

Description: Research origins/history. Defining technical communication in professional world. Focuses on audience, purpose, ethics, global communication, and collaboration. Journal articles, student/professional organizations, guest presentations, interviews. Career assessment inventories, in-class/electronic discussions, oral presentations, feasibility report.

WRIT 3029W Business and Professional Writing

3 credit(s); prereq Daily access to e-mail; Credit will not be granted if credit has been received for: ENGL 3029W; Meets CLE req of Writing Intensive;

Instructor: Berkenkotter, Carol Ann

Description: Practice writing for various purposes/audiences. Using styles, tones, and organizational elements. Potential genres include proposals, reports, Web content, e-mail, executive summaries, job search portfolios. Workplace collaboration, issues of professional literacy.

WRIT 3029W Business and Professional Writing

3 credit(s); prereq Daily access to e-mail; Credit will not be granted if credit has been received for: ENGL 3029W; Meets CLE req of Writing Intensive;

Instructor: Weinberg, Joseph M

Description: Student may contact the instructor or department for information.

WRIT 3152W Writing on Issues of Science and Technology

A-F only, 4 credit(s); prereq 1301 or equiv; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Writing Intensive;

Instructor: STAFF

Description: Ethical, social, and political challenges created by science/technology. Analyzes persuasion strategies through which experts, political decision-makers, and citizens meet these challenges. Bioscience controversies such as cloning, organ transplantation. Controversies over pollution, ozone depletion.

WRIT 3152W Writing on Issues of Science and Technology

A-F only, 4 credit(s); prereq 1301 or equiv; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Writing Intensive;

Instructor: Berkenkotter, Carol Ann

Description: Students read books and articles, discuss, and write about a major issues in science and technology. Instructors chose different topics which can include: DNA and the Human Genome; Animal/Human interaction; Global Warming; Alternative Energies; Animal / Human Cloning and Stem-Cell Research; Vaccines from Smallpox to AIDS, Why Civilizations Collapse, etc. This course is for non-specialists.

WRIT 3221W Communication Modes and Methods

4 credit(s); prereq Soph or jr or sr or instr consent Credit will not be granted if the student has already completed Rhet 3221W; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Social Science Core; meets CLE req of Writing Intensive;

Instructor: Graff, Richard J

Description: Major topic areas include theories of language and nonverbal communication, models of relational communication, and methods of rhetorical criticism. In addition to introducing the theories, the course seeks to develop competencies in

evaluating and applying them in the analysis of communication occurring in the context of interpersonal relationships, the mass media, and cyberspace. The course also encourages reflection on issues such as gender and race in everyday language use and the societal impact of new communication technologies. Discussion, lecture. Writing intensive.

Style: 25% Lecture, 70% Discussion, 5% Small Group Activities.

Grading: 10% mid exam, 10% final exam, 60% reports/papers, 10% quizzes, 10% class participation.

WRIT 3257 Scientific and Technical Presentations

3 credit(s); prereq COMM 1101 or instr consent ;

Instructor: Coggio, Grace Leinbach

Description:

WRIT 3257 Scientific and Technical Presentations

3 credit(s); prereq COMM 1101 or instr consent ;

Instructor: Schultz, Kimberly A

Description: Student may contact the instructor or department for information.

WRIT 3291 Independent Study

1-3 credit(s), max credits 6; prereq instr consent , dept consent ;

Instructor: STAFF

Description: Student may contact the instructor or department for information.

WRIT 3315 The Land in American Experience

3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core;

Instructor: STAFF

Description: Land in America as idea and as actual space. History of cultural values and the meanings land holds for us. Contrasting views of land, especially those of certain Native American peoples. Rise of the conservation movement and the urbanization of U.S. space.

WRIT 3361 Literature of Social Movements in the United States: 1950 to 2000

A-F only, 3 credit(s); prereq Soph or jr or sr or instr consent

; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Literature Core;

Instructor: STAFF

Description: Analysis of literature (fictional, nonfictional) of social movements in the United States in last half of 20th century. Artistic truth in relation to historical truth. Roles/obligations of citizens to protest/change social structures.

WRIT 3361 Literature of Social Movements in the United States: 1950 to 2000

A-F only, 3 credit(s); prereq Soph or jr or sr or instr consent

; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Literature Core;

Instructor: Schuster, Mary Lay

Description: This course focuses on six social movements in the last half of the twentieth century in order to demonstrate how literary analysis helps us understand the personal and political reasons why people become involved in social movements and how they express their arguments and ideologies within the public arena. It also focuses on how literary analysis helps us understand how and why authors and film makers have attempted to capture the events and the ideologies of these acts of protest and the responding acts of control. The course satisfies both a LE literature core requirement and a citizenship and public ethics theme requirement. Thus, the course investigates how these arguments and ideologies, these personal and political reasons, are represented in works of fiction (novels, drama, and film) and in memoirs and documentaries. The six social movements examined within the course are as follows: Civil Rights Movement, Women's Movement, Vietnam War Protests, AIDS Activism, Disability Movement, and Environmental Movement. Through class discussion and reading, we will identify the persuasive strategies involved in these movements (the rhetorical stances that people for and against the movement might take), the motivations for

involvement and commitment on one side or the other, the public expression of these ideals and commitments, and the degree and kind of action taken. We then identify the literary expression of the ideals of each movement as interpreted by a novelist, playwright, documentary filmmaker, and/or popular filmmaker.

One of the central questions of the course is why and how people tell stories about important social events--what choices they make in terms of plot, point of view, character, theme, and setting, and why they seem to make these choices to achieve the desired effects on the reader or viewer. The course also invites a critique of the success of these literary or visual efforts given the knowledge we have about the events depicted and the ideologies that drove the events or the historical and contemporary contexts. The other central question of the course is to assess how social movements function rhetorically to persuade and influence public debate and democratic political decision-making. Thus, course discussion and the take-home exams allow students to reflect upon the features of responsible citizenship.

Style: 100% Discussion.

Grading: 35% mid exam, 35% final exam, 15% quizzes, 15% in-class presentation.

Exam Format: The exams are take-home exams with two weeks given to complete them.

WRIT 3371 Technology, Self, and Society

3 credit(s); prereq Soph or jr or sr or instr consent ; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Historical Perspective Core;

Instructor: Nichols, Capper

Description: Student may contact the instructor or department for information.

WRIT 3381 Writing and Modern Cultural Movements

A-F only, 3 credit(s); Meets CLE req of Other Humanities Core;

Instructor: Reynolds, Thomas Joseph

Description: This course introduces students to modern cultural movements and the role that written texts play in bringing about and consolidating them. The focus of the course is a study of how written texts, from artist manifestos to feminist underground zines, contribute to movements in art and culture. How, for example, did Picasso's written statements about painting serve to define and extend understanding of Cubism? How did online and other writing by political movements such as MoveOn.org play a role in recent elections? The course will encourage students to explore the interaction of written texts and other form of media within specific artistic and cultural movements.

WRIT 3441 Editing, Critique, and Style

A-F only, 3 credit(s); prereq Soph or jr or sr;

Instructor: Rendahl, Merry

Description: Student may contact the instructor or department for information.

WRIT 3562W Technical and Professional Writing

A-F only, 4 credit(s); prereq Jr or sr or instr consent ; Meets CLE req of Writing Intensive;

Instructor: STAFF

Description: Written/oral communication in professional settings. Gathering information, analyzing audience, assessing conventional formats. Drafting, testing, revising documents. Oral presentation of final reports.

WRIT 3577W Rhetoric, Technology, and the Internet

A-F only, 3 credit(s); prereq Soph or jr or sr or instr consent ; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Writing Intensive;

Instructor: Logie, John

Description: The Internet from a rhetorical perspective. How the Internet is changing language, power to persuade, scientific/technical knowledge, and legal issues such as copyright, privacy, and free speech. Emphasizes how scientific/technical information is conveyed on the Internet. Ethical issues specific to use of computers.

WRIT 3671 Visual Rhetoric and Document Design**A-F only, 3 credit(s); prereq [3562W, STC major] or instr consent ;****Instructor:** Horvath, Barbara Ann**Description:** Rhetorical principles applied to visual presentation of information/data in print documents. Students create examples of visual communication and design selected technical publications. Principles of technical writing.**WRIT 4196 Internship in Scientific and Technical Communication****S-N only, 3 credit(s); prereq 3562W, 24 cr in STC major;****Instructor:** STAFF**Description:** Student may contact the instructor or department for information.**WRIT 4258 Information-Gathering Techniques in Scientific and Technical Communication****A-F only, 3 credit(s); prereq Jr or Sr or grad student or instr consent ;****Instructor:** Mc Dowell, Earl Ernest**Description:** Informational, employment-cycle, and problem-solving interviews. Emphasizes guides, schedules, questioning techniques, and communication theories. Descriptive statistics used to analyze data for various projects.**WRIT 4573W Writing Proposals and Grant Management****A-F only, 3 credit(s); prereq [[3562W or equiv], [[jr or sr] STC major or grad student]] or instr consent ; Meets CLE req of Writing Intensive;****Instructor:** Longo, Bernadette**Description:** Students will participate in grant writing project(s) with community partner, First Step Initiative (www.firststepinitiative.org). Tentatively planning to explore UN Foundation's Technology Initiative (<http://www.unfoundation.org/global-issues/technology/>) to work with women entrepreneurs in Democratic Republic of Congo. Other projects will also be considered. After taking this class, students should be able to research funding sources, understand elements of a Request for Proposals (RFP), and write grants that address the key points of the RFP. Microsoft Project will not be taught during this semester.**Style:** 10% Lecture, 20% Discussion, 20% Small Group Activities, 10% Student Presentation, 20% Web Based, 20% Service Learning. will work with client organization**Grading:** 30% reports/papers, 50% special projects, 10% in-class presentation, 10% class participation.**Exam Format:** essay**WRIT 5001 Introduction to Graduate Studies in Scientific and Technical Communication****A-F only, 3 credit(s); prereq Grad student or instr consent ;****Instructor:** Longo, Bernadette**Description:** This course introduces students in Scientific & Technical Communication and graduate students in related fields to issues in the field of scientific & technical communication, such as professional code of practice, audience analysis, media selection, international communication, legal concerns, usability, and issues specific to fields such as medicine, information design, or computer development. Issues may change from semester to semester. Recommended for students in their first semester or two of graduate coursework.**Style:** 20% Lecture, 30% Discussion, 20% Small Group Activities, 10% Student Presentation, 10% Guest Speakers, 10% Web Based. in-class groups**Grading:** 20% mid exam, 30% final exam, 30% reports/papers, 20% in-class presentation.**Exam Format:** essay**WRIT 5051 Graduate Research Writing Practice for Non-native Speakers of English****3 credit(s); prereq Grad student;****Instructor:** Holt, Sheryl Lynn**Description:** Graduate-level writing techniques/formats for summaries, critiques, research, and abstracts. Persuasion, documentation, structure, grammar, vocabulary, field-specific

requirements. Writing through several drafts, using mentor in specific field of study. Revising/editing to meet graduate standards. Discussions.

WRIT 5052 Graduate Research Presentations and Conference Writing for Non-Native Speakers of English**3 credit(s); prereq [Grad student, non-native speaker of English] or instr consent ;****Instructor:** Holt, Sheryl Lynn**Description:** Writ 5052 helps you learn and practice strategies and specific skills for effective delivery of professional, graduate-level presentations to a U.S. audience. The course systematically and sequentially exposes you to the major principles and features of American professional presentations and provides ample opportunities to practice the language and content to most effectively deliver a dynamic presentation. This course uses an action-learning approach with a heavy emphasis on self-assessment and skill building through video demonstrations, videotaping, and coaching. Individual instruction and feedback will be given on videotaped (DVD) presentations and audio taped pronunciation exercises, as needed. Regular attendance, oral participation in classroom presentations and activities, written self-feedback and correction, and informal, impromptu presentations are expected. In addition, some exercises will be assigned for individual practice for accent reduction, as needed. Students select their own field-specific topics for the presentations according to their areas of research or interests. Presentation practice may include skills for persuasive, topic-based, and research-based presentations. Limited discussion will also include writing abstracts for conferences and other writing related to professional presentations. Pronunciation activities and delivery strategies will be specific to non-native speakers of English including cultural analysis, audience awareness, cultural based delivery techniques, enunciation, stress and rhythm, pacing, volume, and non-verbal communication (eye contact, gestures, facial expressions).**Style:** 35% Lecture, 35% Discussion. 65% Instructor-directed work on presentation activities and assignments including in-class presentations.**Grading:** 10% written homework, 60% in-class presentation, 30% class participation. Percentages may vary slightly by section.**WRIT 5111 Information Design: Theory and Practice I****A-F only, 3 credit(s); prereq Grad student or instr consent ;****Instructor:** Anderson, Janel**Description:** Student may contact the instructor or department for information.**WRIT 5196 Internship in Scientific and Technical Communication****S-N only, 3-6 credit(s), max credits 6, 1 completion allowed; prereq STC grad or instr consent;****Instructor:** STAFF**Description:** Student may contact the instructor or department for information.**WRIT 5291 Independent Study****1-3 credit(s), max credits 3, 1 completion allowed; prereq instr consent, dept consent;****Instructor:** STAFF**Description:** Student may contact the instructor or department for information.**WRIT 5531 Introduction to Writing Instruction: Composition Pedagogy****A-F only, 3 credit(s); prereq Grad student;****Instructor:** Bruch Jr, Patrick Leonard**Description:** Pedagogical philosophy/methodology in composition, primarily first-year writing. Introduction to theories underlying teaching/tutoring with technology.**WRIT 5664 Science Writing for Popular Audiences****A-F only, 3 credit(s); prereq Rhet 3562 or instr consent;****Instructor:** Logie, John

Description: Student may contact the instructor or department for information.

WRIT 5775 Major Figures in Rhetorical Tradition: Classical Period

A-F only, 3 credit(s);

Instructor: Graff, Richard J

Description: Classical theories of rhetoric. Epistemological status of rhetoric. Ethical implications of persuasion. Emphasizes "Aristotle's Rhetoric" as founding document. Other figures (e.g., Plato, Isocrates, Cicero, Quintilian).

WRIT 8012 Applied Research Methods in Scientific and Technical Communication

A-F only, 3 credit(s), max credits 6; prereq [8011, grad student] or instr consent ;

Instructor: Gurak PhD, Laura J

Description: Student may contact the instructor or department for information.

Youth Development and Research

190 Peters Hall

YOST 1001 Seeing Youth, Thinking Youth: Media, Popular Media, and Scholarship
3 credit(s);

Instructor: Baizerman, Michael Leon

Description: This course is our invitation to meet and engage the field of Youth Studies and the Youth Studies Program. By the end of our fifteen weeks together, we expect you to be better able to notice the young people around you in your everyday lives; wonder about them and their lives and worlds; name, describe and analyze what you see and hear, watch, read and look up about youth. And we suspect that while you are doing this, you will also become more attentive to your own everyday life and, indeed, to yourself as a youth. For some of you, this may lead to reflecting on your life's work, on your occupational future and vocational call. This too is encouraged. As always in our Youth Studies Program, this course is about all young people, in Minnesota, in the United States and also internationally. This means that we are attentive to and work hard at including material about youth from all ethnic/racial, social class, geographic, sexual background and communities, as well as those who don't speak English, have a variety of physical and mental capacities, are "ordinary", "normal" and "typical", or are not, as seen by themselves, adults and/or other youth. We are after the full range of young people and the full range of ways they live, are perceived, understood and responded to, directly and indirectly, e.g. in public policy, in shopping malls, at skateboard sites and in music venues, for example. We want you to read newspapers, teen magazines, and adolescent novels, watch television and movies, visit youth venues, and begin to make sense of all of this using scholarly perspectives, theories, concepts and research. We expect that you will spend at least three hours per week (of the nine total hours required for a three credit course) "in the field" " in the community watching, talking, being with and assisting teenagers. Along with the three class hours, this leaves three per week to read and write " i.e. for making sense of what you learn in class in relation to what you read and what you see and do in the community. The result should be a powerful scholarly experience, at once "practical", reflective and integrative. This is an introductory course to a subject you know much about ? you've lived its content, thought about it, and may even written poems, made a video or rapped about this life-moment. Since you know this so well, why take a university course on it? Because we believe that a course is a space and time to reflect, analyze and learn about what matters to you, about who you are (and where), about scholarly ways of reflecting, analyzing and learning and about the work others have done on this topic. In these ways, this course introduces ways of being an engaged and thoughtful person, citizen and student. We want you to touch the everyday worlds of young people so we require that you do

fieldwork. This is basic to all Youth Studies courses, and could help you decide whether this is the major you want.

Style: 20% Lecture, 15% Film/Video, 40% Discussion, 20% Small Group Activities, 5% Student Presentation.

Grading: 20% special projects, 20% written homework, 15% reflection paper, 5% in-class presentation, 40% class participation.

YOST 2241 Experiential Learning

4 credit(s); prereq [1001, 2001] or instr consent ; Credit will not be granted if credit has been received for: YOST 5241; Instructor: STAFF

Description: "The best thing for being sad," replied Merlyn, "...is to learn something. That is the only thing that never fails. You may grow old and trembling in your anatomies, you may lie awake at night listening to the disorder of our veins, ... you may see the world around you devastated by evil lunatics, or know your honor trampled in the sewers of baser minds. There is only one thing for it then - to learn. Learn why the world wags and what wags it. That is the only thing which the mind can never exhaust, never alienate, never be tortured by, never fear or distrust, and never dream of regretting. Learning is the thing for you." T.H. White, *The Once and Future King* Youth work is often described as "highly experiential" and transformative. But what does that really mean? What is learning? What makes something transformative? When is learning emancipatory? When is it oppressive? Youth workers understand, sometimes intuitively, that "learning by doing" makes sense, but why? What does "doing" really mean? What is learned in youth work? What should be learned? Is all experience equally valid, moral, and educative? What is the difference between active learning and experiential learning? This course will explore the wide range of definitions given to experiential learning and will lay a sound theoretical foundation for understanding it, particularly in the practice of youth work and the field of youth studies. Students will practice applying experiential learning theory across contexts, paying particular attention to culture, class, geography, age, and the formal to informal education continuum.

YOST 3001 Introduction to History & Philosophy of Youthwork
4 credit(s); prereq 2xxx or instr consent ; 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 3234 Youth Agencies, Organizations, and Youth Service Systems

3 credit(s); prereq [Two soc/anth courses, work experience in youth [agency or org]] or instr consent ; Credit will not be granted if credit has been received for: YOST 5234;

Instructor: VeLure Roholt,Ross Ronald

Description: Ask a local teenager where to find the nearest youth agency and you may, or may not, receive a helpful answer. It all depends on whether that young person has established a relationship with the local ?Y,? Boys and Girls Club, community center or recreation programs at the park. Ask about programs for youth and you are likely to get better answers, but ask about school, the police, or the hospital and chances are your informant will have real answers. A quick Google search returns with over two hundred and sixty million hits for the word ?youth,? twenty million hits for the phrase ?youth development,? eight million for ?youth organization,? four and half million for ?youth agency? ? What does all this tell us? There is a complex and busy world out there of policies, programs and organizations designed to impact the lives of young people ? some would even say a youth development industry ? but sometimes the very individuals the organizations target know little about them, or do not experience them as safe, constructive contributors to their everyday lives. Just because an organization or service delivery system claims to help young people does not mean it does. This course introduces students to the world of youth program service delivery in the United States and prepares them to navigate it effectively and ethically as citizen and youth work professional committed to the healthy development of young people.

YOST 3291 Independent Study in Youth Studies

1-8 credit(s), max credits 8, 1 completion allowed; prereq instr consent ;

Instructor: Stein,Jerome A

Description: Student may contact the instructor or department for information.

YOST 3291 Independent Study in Youth Studies

1-8 credit(s), max credits 8, 1 completion allowed; prereq instr consent ;

Instructor: VeLure Roholt,Ross Ronald

Description: Student may contact the instructor or department for information.

YOST 3291 Independent Study in Youth Studies

1-8 credit(s), max credits 8, 1 completion allowed; prereq instr consent ;

Instructor: Johnston-Goodstar,Caterina Marie

Description: Student may contact the instructor or department for information.

YOST 3291 Independent Study in Youth Studies

1-8 credit(s), max credits 8, 1 completion allowed; prereq instr consent ;

Instructor: Ross PhD,Terrance Kwame

Description: Student may contact the instructor or department for information.

YOST 3291 Independent Study in Youth Studies

1-8 credit(s), max credits 8, 1 completion allowed; prereq

instr consent ;

Instructor: Tebben,Jessica Elda

Description: Student may contact the instructor or department for information.

YOST 3291 Independent Study in Youth Studies

1-8 credit(s), max credits 8, 1 completion allowed; prereq instr consent ;

Instructor: Baizerman,Michael Leon

Description: Student may contact the instructor or department for information.

YOST 4196 Youthwork Internship

4 credit(s); prereq Declaration of youth studies major, instr consent ;

Instructor: VeLure Roholt,Ross Ronald

Description: This is the required youth work practice course.

The course includes a 100 hour field component and a weekly 2 hour seminar. the focus of the class is on integrating knowledge and youth work skills for entry-level professional work with young people, individually and in groups.

Style: 40% Discussion, 25% Small Group Activities, 10% Student Presentation, 25% Guest Speakers. Internship of 100 hours

Grading: 40% reports/papers, 30% special projects, 20% journal, 10% class participation.

YOST 4301 Communicating With Adolescents About Sexuality

3 credit(s); prereq 1001 or 2002W or instr consent ;

Instructor: STAFF

Description: The course will provide participants with increased knowledge and practical skills to communicate sensitively and effectively with adolescents and their concerned persons about sexuality in everyday life. Participants will explore a variety of adolescent sexual issues with a focus on healthy adolescent sexual development and diversity. With this perspective as a base, other topics will include gender, body image, sexual values, sexual orientation, sex and cyberspace, laws affecting young people and their bodies, disease concerns, adolescent sexual victimology and offenderology, sexual harassment and professional and ethical boundaries in working with youth. Pertinent theory, research, strategies and experience will be reviewed using historical and contemporary readings, films, daily news media, guest speakers, and participant interaction in a safe, sensitive and even fun atmosphere. Note: This is not a course in human anatomy. It is a course examining the lived experience of young people as sexual beings. Nonetheless, every effort will be made to identify accurate anatomical and physiological language that complements the vernacular young people hear and use. Students will build a lexicon to facilitate talking about sexuality in a wide variety of cultural settings.

YOST 5234 Youth Agencies, Organizations, and Youth Service System

3 credit(s); prereq [Two soc/anth courses, work experience in [youth agency or org]] or instr consent ; Credit will not be granted if credit has been received for: YOST 3234;

Instructor: VeLure Roholt,Ross Ronald

Description: Ask a local teenager where to find the nearest youth agency and you may, or may not, receive a helpful answer. It all depends on whether that young person has established a relationship with the local ?Y,? Boys and Girls Club, community center or recreation programs at the park. Ask about programs for youth and you are likely to get better answers, but ask about school, the police, or the hospital and chances are your informant will have real answers. A quick Google search returns with over two hundred and sixty million hits for the word ?youth,? twenty million hits for the phrase ?youth development,? eight million for ?youth organization,? four and half million for ?youth agency? ? What does all this tell us? There is a complex and busy world out there of policies, programs and organizations designed to impact the lives of young people ? some would even say a youth development industry ? but sometimes the very individuals the organizations target know little about them, or do not experience them as safe, constructive contributors to their everyday lives. Just because an

organization or service delivery system claims to help young people does not mean it does. This course introduces students to the world of youth program service delivery in the United States and prepares them to navigate it effectively and ethically as citizen and youth work professional committed to the healthy development of young people.

YOST 5291 Independent Study in Youth Studies**1-8 credit(s), max credits 8, 1 completion allowed;****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 8, 1 completion allowed;****Instructor:** VeLure Roholt, Ross Ronald**Description:** Student may contact the instructor or department for information.**YOST 5291 Independent Study in Youth Studies****1-8 credit(s), max credits 8, 1 completion allowed;****Instructor:** Johnston-Goodstar, Caterina Marie**Description:** Student may contact the instructor or department for information.**YOST 5291 Independent Study in Youth Studies****1-8 credit(s), max credits 8, 1 completion allowed;****Instructor:** Ross PhD, Terrance Kwame**Description:** Student may contact the instructor or department for information.**YOST 5291 Independent Study in Youth Studies****1-8 credit(s), max credits 8, 1 completion allowed;****Instructor:** Tebben, Jessica Elda**Description:** Student may contact the instructor or department for information.**YOST 5291 Independent Study in Youth Studies****1-8 credit(s), max credits 8, 1 completion allowed;****Instructor:** Baizerman, Michael Leon**Description:** Student may contact the instructor or department for information.**YOST 5301 Communicating With Adolescents About Sexuality****3 credit(s); prereq [Upper div AdPy course, exper working with youth] or instr consent ;****Instructor:** STAFF**Description:** Student may contact the instructor or department for information.