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 M
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 1104 Experiences in Health
2 credit(s);
Instructor: Rosand, Jennifer A
Description: Designed for students who are interested in pursuing a health career other than a physician and wish to gain experience in a health care setting. Permission Number Required to register. Prerequisite: AHS 1101, AHS 1102, or AHS 1600. 40 hours of volunteer experience is required in this course. Course is primarily online with required in-person dates (see below). Attend Class IN-PERSON: in the Health Careers Center at 2-565 Moos Tower on both Friday, January 25, 2013, 3:35 to 4:25pm AND Friday, April 5th, 2013, 3:35 to 4:25pm.

AHS 1601 The Future Physician II
1 credit(s);
Instructor: Todd, Tricia
Description: Explore the field of medicine by hearing from and interacting with guest physician speakers from the U of M Medical School and the community. Think critically about the challenges and opportunities of a career in medicine through reflective exercises. Learn about the knowledge and skills needed to be an effective physician, along with the challenges and rewards gained when caring for patients and explore your own fit with a career in medicine.
Style: 20% Discussion, 80% Guest Speakers.
Grading: 15% attendance, 85% reflection paper.
AHS 1602 The Future Physician III: Experiences in Health
2 credit(s);
Instructor: Todd, Tricia
Description: Registration for this course requires instructor approval and a permission number. Requests to Tricia Todd, MPH, course instructor, at todd0002@umn.edu. An essential component of your application to medical school is experience in a health care setting. This course requires you to complete 35 hours of volunteer experience in a setting that employs physicians and serves patients. In addition, you will complete a medical school application plan and gain additional insight into your own fit with the field of medicine. Offered: Fall, spring, summer semesters; Offered online
Prerequisites: AHS 1601 and instructor approval
To Register/Permission Numbers:

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

AHS 2707 Global Health Challenges for Future Health Professionals
A-F only, 2 credit(s), max credits 4;
Instructor: Todd, Tricia
Description: Student may contact the instructor or department for information.

AHS 4300 Directed Study
1-3 credit(s), max credits 6;
Instructor: Todd, Tricia
Description: Student may contact the instructor or department for information.

Accounting 3-122 Carlson School of Management

Acct 2050 Introduction to Financial Reporting
A-F only, 4 credit(s); Soph Credit will not be granted if credit has been received for: APEC 1251;
Instructor: 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); Soph Credit will not be granted if credit has been received for: APEC 1251;
Instructor: Biondich, Nick E
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. You work independently, not as part of a student group. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. In this course, you will learn: --the nature of financial transactions; --the Generally Accepted Accounting Principles (GAAP) that businesses and nonprofit organizations in the U.S. must follow in reporting these transactions; --the vocabulary of financial accounting, sometimes described as the language of business; and --the representations made by financial statements. As you learn the fundamentals of accounting, you will gradually discern many areas that will affect you throughout your life. Whenever your corporate employer describes its financial goals, whenever you observe the stock market reacting to a corporation's earnings, whenever you learn about how a financially troubled company is taking steps to increase its profitability, accounting information is involved. This course will help you increase your understanding of events that take place daily in the financial community.
Style: Online with handwritten exams
Grading: See attached syllabus
Exam Format: Supervised, in-person (not online) exams

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

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

Acct 2050 Introduction to Financial Reporting
Acct 2050H Honors: Introduction to Financial Reporting
A­F only, 4 credit(s);
Instructor: Caliendo, Charles Michael
Description: This course introduces the topic of management accounting. The purpose of management accounting is to provide information to management for costing products, as well as for planning, controlling, and evaluating business activities. The purpose of this class is to introduce managerial accounting, which directly relates to managerial decision-making. The course will introduce the design and use of costing systems with specific emphasis on activity based costing systems. The role of managerial accounting in operational and strategic decisions of business firms will also be emphasized.
Style: 40% Lecture, 30% Small Group Activities, 30% Demonstration.
Grading: 30% mid exam, 32% final exam, 25% quizzes, 13% class participation.

Acct 3001 Introduction to Management Accounting
A­F only, 3 credit(s);
Instructor: Kirscht, Carrie Lynn
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 3150 Role of the Accountant in Today's Finance Function
S-N only, 1 credit(s);
Instructor: Batina, Tom
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);
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);
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 ACCT 3001. The course will hone and refine the tools and techniques learned in introductory management accounting classes as well as improve your decision-making skills. We will also explore several topics not covered in the introductory class as well as consider how management accounting supports overall business strategy.
Style: 10% Lecture, 45% Discussion, 45% Student Presentation.
Grading: 33% final exam, 27% written homework, 20% in-class presentation, 20% class participation.

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

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

Acct 5102W Intermediate Accounting II
A-F only, 4 credit(s);Meets CLE req of Writing Intensive
Instructor: Tranter,Terry L
Description: Students in class are juniors, seniors, and master's students. While most students are accounting majors, the course is also valuable for students in finance. The class covers the valuation of liabilities and owners' equity accounts, as well as cashflow statements and earnings per share calculations. Students need a thorough background in financial accounting and present value calculations to do well in Acct 5102.
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 5125 Auditing Principles and Procedures
A-F only, 4 credit(s);
Instructor: Beil,Frank J
Description: Student may contact the instructor or department for information.

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

Acct 5135 Fundamentals of Federal Income Tax
A-F only, 4 credit(s);
Instructor: Guttermann,Paul Gerard
Description: The course objectives are as follows: 1) to provide a historical perspective with respect to the system of income taxation in general and with respect to various specific provisions within the system; 2) to examine the interrelationships between legislative authority (the Internal Revenue Code), judicial and administrative authority; 3) to analyze the structure of the Internal Revenue Code and its provisions with respect to specific areas of the law, primarily with regard to the taxation of individuals; 4) to introduce the reading of case law and other tax authority; and 5) to provide a basic knowledge of tax research tools and techniques. The student will not be a tax expert on completion of the course, but will be familiar with fundamental income tax rules, primarily with respect to individuals, and how the federal tax system works. Although this course is a requirement for undergraduate accounting majors, only a minimal accounting understanding is required as a prerequisite and non-accounting majors are welcome.
Style: 60% Lecture, 15% Discussion. Problems
Grading: 53% mid exam, 30% final exam, 17% special projects.
Exam Format: multiple choice, short essay

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

Acct 5160 Financial Statement Analysis
A-F only, 2 credit(s);
Instructor: Caliendo,Charles Michael
Acct 5180 Consolidations and Advanced Reporting
A-F only, 2 credit(s);
Instructor: Biondich, Nick E
Description: Student may contact the instructor or department for information.

Acct 5236 Introduction to Taxation of Business
A-F only, 2 credit(s);
Instructor: Conlon, Roger John
Description: Student may contact the instructor or department for information.

Acct 5310 International Accounting
A-F only, 2 credit(s);
Instructor: Rayburn, Judy Ann
Description: Student may contact the instructor or department for information.

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

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

Acct 8803 Empirical Research: Accounting Choice
A-F only, 2 credit(s);
Instructor: Zhang, Ivy Xiying
Description: Student may contact the instructor or department for information.

Acct 8832 Theory of Contracts II: Renegotiation and Incomplete Contracting
2 credit(s);
Instructor: Gigler, Frank
Description: Student may contact the instructor or department for information.

Addiction Studies Credit Certificate Prog/College of Continuing Edu

AddS 5011 Foundations in Addiction Studies
A-F only, 2 credit(s);
Instructor: Van Cleve, Michael
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. Theoretical perspectives/concepts related to etiology of alcohol/drug dependency/abuse. Emphasizes bio-psycho-social models of addiction/disease: psychodynamics, social learning, contingency, family systems. Connection of theory to empirical research.
Style: Online
Grading: See attached syllabus

AddS 5011 Foundations in Addiction Studies
A-F only, 2 credit(s);
Instructor: Becher-Ingwalson, Ann M
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. Theoretical perspectives/concepts related to etiology of alcohol/drug dependency/abuse. Emphasizes bio-psycho-social models of addiction/disease: psychodynamics, social learning, contingency, family systems. Connection of theory to empirical research.
Style: Online
Grading: See attached syllabus
AddS 5021 Introduction to Evidence Based Practices and the Helping Relationship
A-F only, 2 credit(s);
Instructor: Boisen,Laura Sue

AddS 5021 Introduction to Evidence Based Practices and the Helping Relationship
A-F only, 2 credit(s);
Instructor: Wamsley,Debra S

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

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

AddS 5051 Methods and Models II: Cognitive Behavioral Therapy
A-F only, 2 credit(s);
Instructor: Van Cleve,Michael
Description: Components of cognitive model. Assessment, case formulation, automatic thoughts, core beliefs, cognitive restructuring, behavior change elements, therapeutic relationship. Students learn, practice and master key concepts.

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

AddS 5071 Foundations of Co-occurring Disorders
A-F only, 2 credit(s);
Instructor: Van Cleve,Michael
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. Understanding the mentally ill and chemically abusive or dependent client. Intervention, advocacy, education, and support for client and those that are part of his/her environment. Social, environmental, and multicultural factors that contribute resources for these clients.
Style: Online
Grading: See attached syllabus

AddS 5071 Foundations of Co-occurring Disorders
A-F only, 2 credit(s);
Instructor: Becher-Ingwalson,Ann M
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. Understanding the mentally ill and chemically abusive or dependent client. Intervention, advocacy, education, and support for client and those that are part of his/her environment. Social, environmental, and multicultural factors that contribute resources for these clients.
Style: Online
Grading: See attached syllabus
AddS 5081 Multicultural Foundations of Behavioral Health
A-F only, 3 credit(s);
Instructor: Wamsley, Debra S
Description: Student may contact the instructor or department for information.

AddS 5091 Assessment and Treatment Planning I
A-F only, 3 credit(s);
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 5091 Assessment and Treatment Planning I
A-F only, 3 credit(s);
Instructor: Wawro, George
Description: Core addictions counseling functions including clinical assessment, case management, documentation treatment planning, and ethical issues. Students begin process of securing internship.

AddS 5101 Adolescents and Co-occurring Substance Use and Mental Health Disorders
A-F only, 2 credit(s);
Instructor: Becher-Ingwalson, Ann M
Description: This is a fully online section offered through Online and Distance Learning (ODL). College of Continuing Education. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. This course covers the screening, assessment, and treatment of substance use in adolescents, including the development issues and bio-psycho-social effects related to adolescent substance use and various options and best practices for treating it.
Style: Online
Grading: See attached syllabus

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

Aerospace Engineering and Mechanics 107 Akerman Hall

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

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

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

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

AEM 2301 Mechanics of Flight
AEM 3031 Deformable Body Mechanics
A-F only, 3 credit(s);
Instructor: Leo, Perry H
Description: Student may contact the instructor or department for information.

AEM 3100 Software Applications in AEM: Introduction to Linux and its Command Line
S-N only, 1 credit(s), max credits 4, 4 completions allowed;
Instructor: Shield, Thomas William
Description: Student may contact the instructor or department for information.

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

AEM 4203 Aerospace Propulsion
A-F only, 4 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

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

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

AEM 4305 Spacecraft Attitude Dynamics and Control
A-F only, 3 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

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

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

AEM 4495 Problems in Aerospace Systems: Space Vehicle Systems: Design to Launch
A-F only, 3 credit(s);
Instructor: Flaten, James Alfred
Description: Note -- This class is using an Independent Study course number but is in fact a standard technical elective class, open to all CSE upper division students. It is expected to particularly appeal to students from Aerospace, Mechanical, Electrical, and Computer Engineering as well as Astronomy. Space Vehicle Systems: Lectures and discussions on designing, building, and operating space vehicles. Topics may include systems engineering, space environment, history of spaceflight, mission design, orbital mechanics, ground operations, as well as spacecraft subsystems (power, communications, propulsion, thermal, structures, attitude control, command/data). In addition, the class will implement an actual near-space mission, using weather balloons to lift miniature spacecraft into the stratosphere where conditions are similar to outer space. This hands-on project will involve designing, building,
testing, and operating a complete near-space-vehicle system (including ground station) to perform a variety of realistic spacecraft functions and collect scientific data. The near-space mission will require a 1-day commitment (date TBA? probably a Saturday in mid-April) to launch and operate the spacecraft and execute GPS tracking and other communication functions using ham radios. Assessment of near-space system performance, analysis of science data collected, and individual writing assignments about a specific space vehicle system will occupy the latter portion of the semester. Grades will be based on short assignments associated with lecture topics, a paper on an existing space vehicle system, and individual contributions to the near-space mission. Textbook: Required: Elements of Spacecraft Design, Brown, ISBN: 1-56347-524-3

Grading: Grades will be based on short assignments associated with lecture topics, a paper on an existing space vehicle system, and individual contributions to the near-space mission.

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

AEM 4511 Mechanics of Composite Materials
3 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

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

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

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

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

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

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

AEM 5651 Aeroelasticity
A-F only, 3 credit(s);
Instructor: STAFF
Description: Static aeroelastic phenomena, torsional divergence of a lifting surface, control surface reversal; aeroelastic flutter, unsteady aerodynamics; problems of gust response, buffeting. Design project required. Student may contact instructor for additional information.

AEM 8202 Fluid Mechanics II
3 credit(s);
AEM 8251 Finite-Volume Methods in Computational Fluid Dynamics  
3 credit(s);  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

AEM 8271 Experimental Methods in Fluid Mechanics  
3 credit(s);  
Instructor: Longmire, Ellen K  
Description: Student may contact the instructor or department for information.

AEM 8295 Selected Topics in Fluid Mechanics: Physical Gas Dynamics and Molecular Simulation  
3 credit(s), max credits 8, 8 completions allowed;  
Instructor: Schwartzentruber, Thomas E  
Description: Physical Gas Dynamics and Molecular Simulation

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

AEM 8411 Advanced Dynamics  
A-F only, 3 credit(s);  
Instructor: Ketema, Yohannes  
Description: Student may contact the instructor or department for information.

AEM 8421 Robust Multivariable Control Design  
3 credit(s);  
Instructor: Seiler Jr, Peter J  
Description: Student may contact the instructor or department for information.

AEM 8495 Advanced Topics in Aerospace Systems  
A-F only, 1-4 credit(s), max credits 8, 8 completions allowed;  
Instructor: STAFF  
Description: The aim of the course is to learn how to exploit information contained in data collected from a dynamical system to determine mathematical models describing the system's dynamical behavior. Methods of system identification are based on the theoretical principles of systems and signals. While the focus of the course is primarily on linear dynamical systems (described by a set of linear differential equations), the course will also cover general considerations about how to treat nonlinear. The system identification principles and methods apply to a wide range of areas. Examples used in the course will cover problems from current research in aerospace (e.g. miniature helicopter, micro-air vehicle) as well as problems from other areas like robotics, neurosciences, and economics. The primary textbook used for the course is "System Identification: Theory for the User" by L. Ljung. The other texts used as references in the course are listed in the reference section.

AEM 8551 Multiscale Methods for Bridging Length and Time Scales  
A-F only, 3 credit(s);  
Instructor: Tadmor, Ellad B  
Description: Student may contact the instructor or department for information.

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

Aerospace Studies 3 Armory

Air 1000 Leadership Laboratory  
S-N only, 1 credit(s);
Air 1104 Introduction to the Air Force Today I
A-F only, 1 credit(s);
Instructor: Bliss, Adam J
Description: The Foundations of the United States Air Force Air 1104 introduces the mission and organization of the Air Force, officership and professionalism, military customs and courtesies, Air Force officer opportunities, group leadership problems, and introduction to communication skills.
Style: 65% Lecture, 15% Film/Video, 10% Discussion, 10% Student Presentation.
Grading: 25% mid exam, 25% final exam, 13% special projects, 12% quizzes, 25% class participation.
Exam Format: Short Answer / Multiple Choice

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

Air 1204 History of Airpower and Communication Skills
A-F only, 1 credit(s);
Instructor: Bliss, Adam J
Description: AIR 1205 is a survey course designed to examine general aspects of air and space power through a historical perspective. This course covers a time period from the first balloons and dirigibles to the airpower in the Cold War. Historical examples are provided to extrapolate the development of Air Force capabilities, functions, and doctrine to demonstrate the evolution of what has become today's USAF air and space power. As a whole, this course provides the students with a knowledge level of understanding for the general element and employment of air and space power from an institutional, doctrinal, and historical perspective. Students will also give several speeches and write several papers to further their communication abilities.
Style: 65% Lecture, 15% Film/Video, 10% Discussion, 10% Student Presentation.
Grading: 25% mid exam, 25% final exam, 13% special projects, 12% quizzes, 25% class participation.
Exam Format: Short Answer and Multiple Choice

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

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

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

African American and African Studies 808 Social Sciences Tower

Afro 3002 West African History: 1800 to Present
3 credit(s); Meets CLE req of Global Perspectives
Instructor: Coifman, Victoria Bomba
Description: This course, which is deeply and firmly rooted in the African past, also is current and relevant for Africa and its people of today and tomorrow. It provides, for example, the historical information for understanding and evaluating the reasons for poor West African (and continental) governance institutions since the 1960s, as well as the move toward better governments becoming visible today. We look at how West Africans managed the tensions, wars, reconciliation and peace efforts from the nineteenth century on, including the historical causes of recent wars in Liberia and Sierra Leone and the current period of reconstruction in both countries. Study of the economies of the West African past are key to formulating policy for the future. Students planning travel, course work, or internships in West Africa and students with African backgrounds, will find valuable and timely historical information about the places they know or will visit. This can contribute to providing the building blocks of development and future planning which meets...
people "where they are" and therefore increases the chances for success. This information can also help understanding and planning for other parts of the continent. Themes of this course include the study of continuities with the pre-nineteenth century African past, and the profound, even revolutionary changes of the late nineteenth and most of the twentieth centuries. We identify the building blocks of West African society, which in turn makes visible the historical West African institutions for regulating representative governments. We study too, the organizations West Africans (and other Africans) developed for managing foreign relations. We study the impact of increasing contact with the Atlantic World, the continued spread of Islam, the European and American Industrial Revolution, the impact of colonial rule and the drastic changes in political and economic organization in West Africa in the last two hundred years. These have led to a very difficult post-colonial period in the last forty-five years. There are signs today, however, of hope, of difficult lessons learned, clearer indications of concrete roads to take towards a healthy, fruitful West African future.

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

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

**Exam Format:** identification of terms, essays, both have elements of choice within the questions.

---

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

A-F only, 3 credit(s);

Instructor: Pate, Alexs D.

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

---

**Afro 3205 History of South Africa from 1910**

3 credit(s); Credit will not be granted if credit has been received for: HIST 3435;

Instructor: Atkins, Keletso E

**Description:** Afro 3205 is the second half of a two sequence course on the history of South Africa from unification in 1910 to the final phase and collapse of the apartheid government. A major theme will be the development of African, Indian, Coloured and White political associations. We will examine post world war I political developments including the legal foundations of segregation; African trade union activities and unrest; African women and urbanization; African and Afrikaner nationalism after World War II; the legal frameworks of apartheid; the Soweto explosion; and towards a new South Africa. Target audience: undergraduates.

**Style:** 65% Lecture, 20% Discussion. 65-70% Lecture; 15%-20% Several videos on S. Africa.

**Grading:** 25% mid exam, 30% final exam, 30% reports/papers, 15% class participation. Term paper of roughly 15-20 pages.

**Exam Format:** Essay.

---

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

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

Instructor: Haltinner, Kristin

**Description:** Analytical overview of three major forms of inequalities in the United States today: race, class, gender. Focus on these inequalities as relatively autonomous from one another and as deeply connected/intertwined with one another. Intersectionality key to critical understanding of these social forces. Social change possibilities.

**Style:** 20% Lecture, 20% Film/Video, 50% Discussion, 5% Small Group Activities, 5% Guest Speakers.

**Grading:** 20% reports/papers, 20% attendance, 60% reflection paper.

---

**Afro 3301 The Music of Black Americans**

3 credit(s);

Instructor: Williams, Yolanda Y

**Description:** This course traces the "genres and styles impacted of music which...define African-American music in the United States."(Southern) We will follow elements found in West African culture and music such as "call and response" and the "2nd Line" as they travel to the "New World" and expressed through Spirituals, Symphonies, Gospel Music, Jazz, Rock and Roll, Step Bands and more. Through lectures, readings, discussion, audio visual examples, and homework assignments student can expect to gain a deeper understanding of the ways music both reflects and impacts the social history of all Americans.

**Style:** audio_visual presentations

**Grading:** 20% mid exam, 20% final exam, 20% reports/papers, 10% written homework, 10% reflection paper, 10% in-class presentation, 10% class participation. Written assignments: Live Performance Experiences, Blues composition, Listening Assignments, etc.
Afro 3426 African Americans, Social Policy, and the Welfare State
3 credit(s);
Instructor: Mayes, Keith A
Description: This is a course on the history of public and social policy and African Americans. It attempts to familiarize students with some of the most pertinent issues that continue to dominate the news. This course seeks to place into historical context the present-day commentary on social security, affirmative action, welfare, healthcare, and incarceration. Instead of focusing on political movements, we will address the outcome and manifestation of social and political movements, mainly policy concerns and questions. We will begin with the period that ushered in the tradition of social policy—the New Deal. The New Deal, the Great Society, and other attempts by the federal government to involve itself in the lives of ordinary people will be at the center of our course. But we will go beyond this and explore the racial, class, and gender implications of social and public policy. How are African-Americans situated within the welfare state? Do African-Americans receive and share in social benefits to the same degree as other groups? How are African-Americans impacted by education policies such as affirmative action and busing, reforms in welfare, sentencing, and incarceration? What presidential administrations have been amenable to policies that address the problems facing African-Americans? The goal of the course is to turn students into policy-makers.

Afro 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 Global Perspectives; meets CLE req of Historical Perspectives
Instructor: Gengenbach, Heidi
Description: Student may contact the instructor or department for information.

Afro 3592W Introduction to Black Women Writers in the United States
3 credit(s); Credit will not be granted if credit has been received for: ENGL 3592W; Meets CLE req of Writing Intensive
Instructor: Pate, Alexs D.
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 they 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.

Afro 3598W Introduction to African American Literature and Culture II
4 credit(s); Credit will not be granted if credit has been received for: ENGL 3598W; Meets CLE req of Literature; meets CLE req of Writing Intensive
Instructor: Wright, John S
Description: In AFRO/ENGL 3597W & 3598W, the new two-semester Writing Intensive introduction to African American literature, a cornucopia of literary texts, oral traditions, audiovisual materials, and internet resources bring black literary traditions out of the shadows and under an extended exploratory gaze. The Harlem Renaissance divides the first course (3597W) from this companion course (3598W). AFRO/ENGL 3598W focuses exclusively on the 20th century and opens with the Depression Era 1930s literary insurgency led by Richard Wright and then moves forward through the Civil Rights era and Black Power revolts of SNCC, CORE, and the Black Panthers that helped sponsor the 1960s and '70s "second black renaissance," or Black Arts Movement, of the "New Breed" generation: an urban black popular culture explosion analogous to the earlier "New Negro" era: Broadway and off-Broadway black theatre; African-inspired visual art; music-driven performance poetry and "rapping"; avant-garde Afro-Asian jazz; independent and Hollywood-based "badassed" black cinema; politico-religious sects and charismatic orators like Malcolm X and Stokely Carmichael; "soul music" performers like Ray Charles, James Brown, & Aretha Franklin; and the "young, gifted and Black" writers who celebrated and critiqued it all from the vantage point of the newly articulated, Third World-conscious "black aesthetic" which culminated in the achievements of novelists like Toni Morrison and playwrights like August Wilson.
Style: 40% Lecture, 40% Discussion, 5% Laboratory. CourseLib website on Lumina interface, plus a Course Handbook on Electronic Reserve.
Grading: 73% reports/papers, 17% quizzes, 10% laboratory evaluation.
Exam Format: multiple choice and short answer

Afro 3625W Black Women Writers in the Diaspora
3 credit(s); Meets CLE req of Global Perspectives; meets CLE req of Literature; meets CLE req of Writing Intensive
Instructor: Githire, Njeri R
Afro 3626 Literature of African American Men: Sex, Family, and Relationships  
**A-F only, 3 credit(s);**  
**Instructor:** Pate,Alexs D.  
**Description:** The primary goal of this course is to explore a sampling of fictional text, written by African American men which focus on family, sex and relationships. Our purpose: to identify and articulate the notion of manhood and masculinity as considered by these writers. And perhaps to juxtapose these notions with what we learn through the popular media.

Afro 3655 African American Cinema  
**3 credit(s);Credit will not be granted if credit has been received for: AFRO 4655;Meets CLE req of Arts/Humanities; meets CLE req of Diversity and Soc Justice US**  
**Instructor:** Wright,John S  
**Description:** This course, co-taught by John Wright from the Department of African American & African Studies, and Robert Silberman, Department of Art History, examines film representations of the African American experience. It features films by both African American directors (Oscar Micheaux, Gordon Parks, Julie Dash, Spike Lee, Haile Gerima, etc.) and directors who are not African American (Dudley Murphy, Otto Preminger, Michael Roemer, etc.). Among the films to be viewed are Within Our Gates, The Emperor Jones, Nothing But a Man, The Learning Tree, Sankofa, Superfly, Daughters of the Dust, and Malcolm X. The course follows a lecture-discussion format. Films will be screened in class each week; but students will be required to view additional films outside of class on DVD. Short papers and film responses will be assigned throughout the class. There will be a term paper (6-8 pages) and take-home mid-term and final exams.

Afro 3655 African American Cinema  
**3 credit(s);Credit will not be granted if credit has been received for: AFRO 4655;Meets CLE req of Arts/Humanities; meets CLE req of Diversity and Soc Justice US**  
**Instructor:** Silberman,Robert B  
**Description:** This course, co-taught by John Wright from the Department of African American & African Studies, and Robert Silberman, Department of Art History, examines film representations of the African American experience. It features films by both African American directors (Oscar Micheaux, Gordon Parks, Julie Dash, Spike Lee, Haile Gerima, etc.) and directors who are not African American (Dudley Murphy, Otto Preminger, Michael Roemer, etc.). Among the films to be viewed are Within Our Gates, The Emperor Jones, Nothing But a Man, The Learning Tree, Sankofa, Superfly, Daughters of the Dust, and Malcolm X. The course follows a lecture-discussion format. Films will be screened in class each week; but students will be required to view additional films outside of class on DVD. Short papers and film responses will be assigned throughout the class. There will be a term paper (6-8 pages) and take-home mid-term and final exams.

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

**Grading:** 40% reports/papers, 25% written homework, 10% reflection paper, 25% in-class presentation.
Jackson, Al Sharpton and Carol Moseley Braun, to the monumental election of Barack Obama in 2008.

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

**Grading:** 20% mid exam, 20% final exam, 50% reports/papers, 10% class participation.

**Afro 3910 Topics in the African Diaspora: Conflict & Peace in Eritrea, Ethiopia and Somalia**
- **3 credit(s), max credits 9, 3 completions allowed;**
- **Instructor:** Araia, Semhar

**Description:** The Horn of Africa is a diverse, complex region whose topography, natural resources, multi-ethnic groups and varied interests all too often lead to armed conflict and regional wars. Over the last fifty years, the Horn has undergone massive transformation through successive interstate and intrastate wars between armed groups and state authorities. Systematic and ongoing conflicts continue to plague the region, existing in low-level, high-intensity and highly militarized environments. These conflicts are exacerbated and often intensified due to reoccurring natural disasters, foreign intervention and geopolitical threats and interests. This course will introduce students to the modern political history of the Horn of Africa and examine the nature of conflict and peace in Eritrea, Ethiopia and Somalia. The specific themes that will be covered include post-colonization independence, reoccurring and systematic conflict, humanitarian crises, and the role of foreign aid, development and peacemaking. The course will also focus on the Horn’s relations with the international community with emphasis on US foreign policy, conflict resolution, security, and development in the region.

**Afro 4231 The Color of Public Policy: African Americans, American Indians, and Chicanos in the United States**
- **3 credit(s); Credit will not be granted if credit has been received for: AMIN 4231;**
- **Instructor:** Haltinner, Kristin

**Description:** Examination of structural or institutional conditions through which people of color have been marginalized in public policy. Critical evaluation of social theory in addressing the problem of contemporary communities of color in the United States.

**Style:** 20% Lecture, 20% Film/Video, 50% Discussion, 5% Small Group Activities, 5% Guest Speakers.

**Grading:** 20% reports/papers, 20% attendance, 60% reflection paper.

**Afro 4406 Black Feminist Thought**
- **3 credit(s); Credit will not be granted if credit has been received for: GWSS 4406;**
- **Instructor:** Isoke, Zenzele

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

**Afro 5182 Contemporary Black Theatre: 1960-Present**
- **3 credit(s); Credit will not be granted if credit has been received for: TH 5182;**
- **Instructor:** Taylor, Dominic A

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

**Afro 5406 Black Feminist Thought**
- **3 credit(s); Credit will not be granted if credit has been received for: GWSS 4406;**
- **Instructor:** Isoke, Zenzele

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

**Afro 5551 Methods: Use of Oral Traditions as Resources for History**
- **3 credit(s);**
- **Instructor:** Coifman, Victoria Bomba

**Description:** Africans and African Americans (like many other people such as Native Americans) have kept some or much of their history in spoken, rather than written form. To access this important data for writing history today, a methodology for the use of oral traditions by historians has been developed. This is based on the work of Jan Vansina, Emeritus Professor of History and of Anthropology, University of Wisconsin-Madison. This course’s focus is on the history methodology which allows for the use of oral traditions as sources for history. There is some study too, of the use of oral histories as sources for history. Oral traditions are “verbal messages which are reported statements from the past, beyond the present generation”. Jan Vansina, l985,27. They are spoken or sung, even carried in music. Oral histories on the other hand, consist of spoken accounts of events taking place in a person’s lifetime. Use of the canons of history to analyze and critique oral traditions and to use them along with written historical sources, are the central focus of this class. A popular section of the course is our study of the history of African history in various countries since the l950s. Also, while the focus is upon African American and African data, students of other peoples’ histories, and from the perspective of other disciplines, such as Anthropology, Urban Studies, Literature and Psychology will find much helpful information in the course, for their own work.

**Style:** 55% Lecture, 20% Film/Video, 15% Discussion, 10% Small Group Activities. Keeping current with reading and lecture assignment is important for fun and fruitful class times.
Grading: 25% mid exam, 25% final exam, 50% reports/papers. Each student fills out three non graded but mandatory sheets of terms from the course for identification. This becomes the base of class discussion, and serves too, as a review mechanism. Students like this a lot.

Exam Format: identification of terms and short essays each part contains elements of choice within the questions.

Afro 5910 Topics in African American and African Studies: Conflict & Peace in Eritrea, Ethiopia and Somalia
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Araia,Semhar
Description: The Horn of Africa is a diverse, complex region whose topography, natural resources, multi-ethnic groups and varied interests all too often lead to armed conflict and regional wars. Over the last fifty years, the Horn has undergone massive transformation through successive interstate and intrastate wars between armed groups and state authorities. Systematic and ongoing conflicts continue to plague the region, existing in low-level, high-intensity and highly militarized environments. These conflicts are exacerbated and often intensified due to reoccurring natural disasters, foreign intervention and geopolitical threats and interests. This course will introduce students to the modern political history of the Horn of Africa and examine the nature of conflict and peace in Eritrea, Ethiopia and Somalia. The specific themes that will be covered include post-colonization independence, reoccurring and systematic conflict, humanitarian crises, and the role of foreign aid, development and peacemaking. The course will also focus on the Horn's relations with the international community with emphasis on US foreign policy, conflict resolution, security, and development in the region.

Agricultural Industries and Marketing 235 Soils

AIM 4011 Student Project/Field Investigation
3 credit(s);
Instructor: Nefstead,Ward Elliot
Description: Student may contact the instructor or department for information.

Agricultural, Food, and Environmental Education 146 Ruttan Hall

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

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

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

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

AFEE 4221 Rural Leadership Development
3 credit(s);
Instructor: Peterson,Roland L
Description: Student may contact the instructor or department for information.

AFEE 5112 Agricultural Education Program Organization and Curriculum for Youth
3 credit(s);
Instructor: Smith,Amy Rae
Description: Student may contact the instructor or department for information.
AFEE 5114 Agricultural Education Teaching Seminar
1 credit(s);
Instructor: Westrom, Lyle Emil
Description: Student may contact the instructor or department for information.

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

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

AFEE 5220 Special Topics in Agriculture Education and Extension
1-3 credit(s), max credits 12, 12 completions allowed;
Instructor: Swenson, Rebecca Dean
Description: Student may contact the instructor or department for information.

AFEE 5220 Special Topics in Agriculture Education and Extension
1-3 credit(s), max credits 12, 12 completions allowed;
Instructor: Greiman, Brad
Description: Student may contact the instructor or department for information.

AFEE 5233 Advanced Procedures in Teaching Agricultural Education
A-F only, 2 credit(s);
Instructor: Smith, Amy Rae
Description: Student may contact the instructor or department for information.

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

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

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

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

AFEE 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

Agro 1093 Directed Studies
1-4 credit(s), max credits 12, 12 completions allowed;
Agro 1101 Biology of Plant Food Systems
4 credit(s); Meets CLE req of Biological Sciences
Instructor: Smith, Kevin Paul
Description: This course is designed for students who are not majors in a life science program, but who wish to acquire a better understanding of biological concepts especially as they relate to their lives. This course fulfills the University’s Council on Liberal Education Diversified Core requirement for a biology course with lab and the Designated Theme environment. Throughout this course, we will examine in depth, current issues related to food, food production and the environment. These issues will provide the context in which we investigate fundamental concepts of biology and examine ecological principles including productivity, energy, genetic change in populations, and environmental responses to human activity.
Style: 30% Lecture, 1% Film/Video, 7% Discussion, 40% Laboratory, 20% Small Group Activities, 2% Student Presentation.
Grading: 15% final exam, 21% reports/papers, 7% special projects, 6% quizzes, 27% written homework, 24% additional semester exams. 24% additional exams is really three tests that are worth 8% each. Each test is conducted individually and in a small group (collaboratively)
Exam Format: Multiple choice, short answer

Agro 3203W Environment, Global Food Production, and the Citizen
3 credit(s); Credit will not be granted if credit has been received for: AGUM 2224; Meets CLE req of Global Perspectives; meets CLE req of Writing Intensive
Instructor: Porter, Paul M
Description: Sustainable production of food is crucial to human survival. Different agricultural ecosystems have developed around the world that are influenced by and have an impact on the environment. This Course examines how the environment constrains the capacity to produce food and the impact of agriculture on the environment from a Global Perspective. Topics include human population growth and hunger, ecological properties of agricultural ecosystems, issues of biodiversity, natural resource conservation, pollution, water and waste management. The course is Writing Intensive and utilizes the Active Learning Classroom to provide a group learning environment. The course utilizes decision cases, discussions, writing and readings to enable you to reflect upon global perspectives of compelling contemporary and historical issues in the regions of Africa, Asia and the European Union involving sustainability and to engage in ethical debate about global food production with respect to environmental, societal and economic perspectives. Students with no prior exposure to agriculture are encouraged to enroll. An introductory knowledge of biological concepts would be helpful.
Style: 35% Lecture, 35% Discussion, 20% Small Group Activities. Active Learning, decision cases, group work
Grading: 20% mid exam, 20% final exam, 40% reports/papers, 20% class participation.
Exam Format: short essay and multiple choice

Agro 3203W Environment, Global Food Production, and the Citizen
3 credit(s); Credit will not be granted if credit has been received for: AGUM 2224; Meets CLE req of Global Perspectives; meets CLE req of Writing Intensive
Instructor: Raeth-Knight, Mary Louise
Description: Sustainable production of food is crucial to human survival. Different agricultural ecosystems have developed around the world that are influenced by and have an impact on the environment. This Course examines how the environment constrains the capacity to produce food and the impact of agriculture on the environment from a Global Perspective. Topics include human population growth and hunger, ecological properties of agricultural ecosystems, issues of biodiversity, natural resource conservation, pollution, water and waste management. The course is Writing Intensive and utilizes the Active Learning Classroom to provide a group learning environment. The course utilizes decision cases, discussions, writing and readings to enable you to reflect upon global perspectives of compelling contemporary and historical issues in the regions of Africa, Asia and the European Union involving sustainability and to engage in ethical debate about global food production with respect to environmental, societal and economic perspectives. Students with no prior exposure to agriculture are encouraged to enroll. An introductory knowledge of biological concepts would be helpful.
Style: 35% Lecture, 35% Discussion, 20% Small Group Activities. Active Learning, decision cases, group work
Grading: 20% mid exam, 20% final exam, 40% reports/papers, 20% class participation.
Exam Format: short essay and multiple choice

Agro 3660 Plant Genetic Resources: Identification, Conservation, and Utilization
A-F only, 3 credit(s);
Instructor: Stupar, Robert M
Description: This course is intended for undergraduate majors and non-majors interested in plant genetic resources and diversity. We will focus on methods of identifying, characterizing and conserving plant genetic resources. We will
examine the biological basis of genetic diversity and highlight several case studies in which plant genetic resources are currently being utilized for crop improvement. This course will consider plant genetic resources at the local, national and international levels. In the laboratory, students will gain experience with phenotypic, molecular and computer-based methods for distinguishing and cataloging plant genetic diversity.

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

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

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

---

**Agro 4005 Applied Crop Physiology and Development**

4 credit(s), max credits 8;
**Instructor:** Brakke, Mary Patricia

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

---

**Agro 4093 Directed Studies for Advanced Students**

1-4 credit(s), max credits 12, 12 completions allowed;
**Instructor:** Smith, Kevin Paul

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

---

**Agro 4096 Professional Experience Program: Internship**

S-N only, 1-3 credit(s), max credits 6, 6 completions allowed;
**Instructor:** Brakke, Mary Patricia

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

---

**Agro 4097 Undergraduate Research Thesis**

A-F only, 1-6 credit(s), max credits 12;
**Instructor:** Smith, Kevin Paul

**Description:** Students work with a faculty member to develop a research project, carry out the research, and write a thesis.

**Style:** Regular meetings are scheduled with instructor.

**Grading:** 100% reports/papers.

---

**Agro 4401 Plant Genetics and Breeding**

4 credit(s); [Biol 1009 or equiv or grad], instr consent Credit will not be granted if credit has been received for: HORT 4401;
**Instructor:** Thill, Christian A

**Description:** This course is designed for undergraduate or Master of Agriculture students. The emphasis will be on plant genetics and breeding and requires no prior genetics course (although a biology course is required). Students taking the course should be interested in using the products of plant breeding rather than being a professional plant breeder. The purpose of this course is to cultivate an appreciation for the fundamental principles of plant genetics and genetic processes and the procedures plant breeders use to create new varieties. Topics range from molecular aspects of genetics, Mendelian genetics, biotechnology, and genomics to variety development, seed multiplication, and intellectual property issues. Class material on Web CT/Web Vista.

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

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

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

---

**Agro 4505 Biology, Ecology, and Management of Invasive Plants**

3 credit(s);
**Instructor:** Wyse, Donald L

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

---

**Agro 5121 Applied Experimental Design**

4 credit(s); Stat 5021 or equiv or instr consent Credit will not be granted if credit has been received for: ENT 5121;
**Instructor:** Ehlke, Nancy Jo

**Description:** This class is designed for graduate students interested in developing practical statistical research skills beyond topics covered in Applied Statistical Analysis (STAT 5021). Successful students will learn central principles in sampling, experimental design, and statistical analysis, and will learn to recognize and analyze results from experimental designs that are commonly used in agricultural, food and natural resource sciences. Students will be able
to generate testable hypotheses, organize a work plan to collect research data, and analyze results using appropriate software such as R, SAS, Excel and others as appropriate for specific designs. The course consists primarily of lectures on basic concepts and applications, and discussion sections focus on problem sets, lecture topics that require additional depth, and student projects, as student needs dictate. Grades are based on seven problem sets (10% each) and a semester design project (30%) tailored to individual student research interests.

**Agro 5121 Applied Experimental Design**

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

**Agro 5321 Ecology of Agricultural Systems**

A-F only, 3 credit(s); [3xxx or above] course in [Agro or AnSc or Ent or Hort or PlPa or Soil] or instr consent
Credit will not be granted if credit has been received for: ENT 5321;
Instructor: Jordan, Nicholas Royal
Description: This course develops a concept of agriculture as the result of interactions between human social systems and ecological systems. These "eco-social" interactions define an agroecology that includes humans as ecological actors. The course aims to provide some useful concepts for viewing agriculture from this holistic, "systems" perspective, and some practical experiences in doing so. Our aim is to help our students become better able to work in the face of complex, tangled webs of problems and opportunities in agroecological challenges such as local food system development. Concepts of systems thinking are applied to agriculture through practical applications. The course features a community-based learning component, in which students apply methods of systems thinking to a local "live" agroecology problem, such as local food system development, in partnership with community organizations. The course may be useful for students interested in "the human factor" in any field of environmental studies or management. A manuscript describing the course is attached; please click on the 'syllabus' link below.
Grading: 75% reports/papers, 25% class participation.
Exam Format: Final written report

**Agro 5999 Special Topics: Workshop in Agronomy: A Primer of Plant Breeding**

1 credit(s), max credits 6, 3 completions allowed;
Instructor: Bernardo, Rex N
Description: Student may contact the instructor or department for information.

**Agro 8241 Chromosomal and Molecular Genetics of Plant Improvement**

3 credit(s);
Instructor: Stupar, Robert M
Description: Student may contact the instructor or department for information.

**Agro 8270 Graduate Seminar**

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

**Agro 8280 Current Topics in Applied Plant Sciences**

S-N only, 1 credit(s);
Instructor: Thill, Christian A
Description: Student may contact the instructor or department for information.
3 credit(s); Meets CLE req of Diversity and Soc Justice US
Instructor: STAFF
Description: This course is intended to give students a general overview of the contemporary and historic experiences of American Indian peoples in the United States and Canada. It challenges the dominant culture’s stereotypes and its unthinking assumptions about American Indian people in the past and present. It shows how the peoples of America's First Nations engaged the presence and representations of foreigners in their midst through acts of resistance, rebellion, accommodation, and innovation. In the process, it illustrates the great diversity of tribal cultures and histories in North America, and it gives evidence of this in the areas of identity, work, philosophy, politics, society, language, religion, literature, and the arts.

Amln 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 Global Perspectives
Instructor: Beane, Katherine Elizabeth
Description: Student may contact the instructor or department for information.

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

Amln 1902 Freshman Seminar: American Indian History in Literature and Film
A-F only, 3 credit(s); Meets CLE req of Diversity and Soc Justice US
Instructor: Child, Brenda J
Description: Student may contact the instructor or department for information.

Amln 3108 History of Anishinaabemowin, the Ojibwe Language
A-F only, 3 credit(s); 3107 Credit will not be granted if credit has been received for: AMIN 5108;
Instructor: Nichols, John David
Description: Student may contact the instructor or department for information.

Amln 3143 Language in American Indian Culture and Society
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: ANTH 3143;
Instructor: Fairbanks, Brendan George
Description: Student may contact the instructor or department for information.

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

Amln 3301 American Indian Philosophies
4 credit(s); Meets CLE req of Arts/Humanities; meets CLE req of Diversity and Soc Justice US
Instructor: STAFF
Description: The purpose of this course is to introduce students to the philosophical thought and spiritual beliefs of native peoples of North America. Students will examine a broad spectrum of issues which influence the worldview of
native people on this continent, including European contact and thought. Students may find some of the issues to be controversial and personally challenging, however, a thorough discussion of the impact of European influences is important to understanding native people's resistance and survival. Finally, students will also explore the ways in which native philosophy and spiritual practices shape native life experience in a society viewed by many native people as being at odds with their beliefs.

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

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

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

---

**AmIn 3312 American Indian Environmental Issues and Ecological Perspectives**

- **3 credit(s); Meets CLE req of Environment**
- **Instructor:** Carroll, Clint
- **Description:** This is a survey course devoted to understanding American Indian / First Nation environmental issues broadly speaking in both the United States and Canada. The class will encourage you to think critically and responsibly about a variety of contemporary debates and political topics, including off-reservation hunting and fishing, the protection of sacred sites on public lands, romanticized stereotypes, food sovereignty, and environmental justice for Native communities. We will also explore the unique perspectives of American Indian / First Nation peoples in the context of traditional ecological knowledge and practices, and how they both contrast with and complement Western science. We will view these topics through the lens of political ecology, an approach to environmental studies that emphasizes the influence of social, political, economic, and legal forces and institutions on environmental issues. As such, the course will stress the importance of understanding historical and contemporary American Indian environmental matters in the contexts of colonial histories and tribal sovereignty.

---

**AmIn 3314 Natural Resource Management and Environmental Policy in Indian Country**

- **3 credit(s); Meets CLE req of Environment**
- **Instructor:** Carroll, Clint
- **Description:** This course specifically explores historical and contemporary natural resource issues on American Indian / First Nation tribal lands in the United States and Canada. The course highlights the proactive measures that Native nations are taking in order to reclaim control over their lands and resources, and thus reassert their own unique values and norms of resource management. In this regard, we will assess a variety of cases studies throughout Indian country in which tribal management programs are drawing from traditional teachings and/or philosophies, and how they each practice sustainability in their own unique ways. Additionally, we will study the relationship between tribes and state/federal agencies with regard to the co-management of culturally significant off-reservation lands and resources in order to understand the political issues of co-management and the obstacles to the incorporation of indigenous traditional knowledge into scientific management plans. Further, we will explore new directions in what has been termed collaborative stewardship, and the implications this has for the well being of lands and peoples throughout the globe. The class will also emphasize the role of environmental law and policy in asserting tribal rights to environmental health and resource management.

---

**AmIn 3701 Ojibwe Culture and History**

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

---

**AmIn 3711 Dakota Culture and History**

- **3 credit(s); Meets CLE req of Diversity and Soc Justice US; meets CLE req of Historical Perspectives**
- **Instructor:** STAFF
- **Description:** This course focuses on Dakota culture and history. Our emphasis will be on the four bands of the Santee Dakotas: the Mdewakantons, Wahpekutes, Wahpetons, and the Sissetons. The content of the course will be regionally based, that is, we will study primarily the Dakota bands located in Minnesota and eastern South Dakota. This course will introduce you to many aspects of Dakota culture. We will first begin with a historical overview of the Dakota people, this section will lead us to a significant event in Dakota History: the Uprising/War/Conflict of 1862. As you learn about Dakota history, you will also become aware of the culture of the Santee Dakota. This will involve oral history and narratives, music and dance, artistic expression, language, and discussions of contemporary issues relevant to the Dakota people. Target audience: anyone interested in American Indian Studies.
- **Style:** 10% Lecture, 60% Discussion.
- **Grading:** 20% mid exam, 20% final exam, 40% reports/papers, 10% in-class presentation, 10% class participation.
- **Exam Format:** Multiple Choice, Essay
Amln 3713 Lands and Homelands in the American Indian Great Lakes
3 credit(s); Credit will not be granted if credit has been received for: AMST 3713; Meets CLE req of Diversity and Soc Justice US; meets CLE req of Historical Perspectives
Instructor: Child, Brenda J
Description: This course is a study of American Indian communities of the Great Lakes over time, with particular attention to Ojibwe, Dakota, and H-Chunk experiences. In the period before contact with Europeans, Algonquins and Siouan peoples of the Great Lakes formed clans, social policies, political structures, and religious societies. Tribes collaborated in ways that transcended barriers of language and culture. Formerly, the Mononinees and Ho-Chunks enjoyed traveling together to the prairies for communal buffalo hunts. Great Lakes tribes lived in and shaped an environment that at certain times of the year, such as during the autumnal wild rice harvest, allowed for abundance and a very rich life. The richness of the world Great Lakes tribes created was damaged, depressed, and altered but not destroyed by the arrival of Euroamericans. We will consider the emergence of the fur trade and its impact on tribal economies and gender roles, the introduction of disease, treaties, wars, the establishment of reservations, the allotment policy, and the movement to assimilate American Indians into the mainstream of American society. We will explore recent decades in the history of Great Lakes Indian communities through discussion of boarding school experiences, environmental change, urbanization, political activism, the struggle for treaty rights, and the emergence of what some have termed the “new buffalo” of tribal gaming.
Style: 75% Lecture, 25% Discussion.
Grading: 30% mid exam, 30% final exam, 30% reports/papers, 10% class participation.
Exam Format: Essay

Amln 3872 American Indian History: 1830 to the Present
3 credit(s); Credit will not be granted if credit has been received for: HIST 3872;
Instructor: O’Brien, Jean Maria
Description: How did American Indian nations navigate the turbulent nineteenth and twentieth centuries that brought a flood of intruders into their homelands and remake themselves into the vibrant and richly diverse peoples that they are in the present? Beginning with the turmoil surrounding Indian Removal policy in the 1830s, and extending into the present-day struggles of Indian nations to control their own destinies, this course serves as an introduction to American Indian history from 1830 to the present. Touching on such themes as cultural resistance and political resurgence in the face of U.S. colonialism, we will focus on the interface between the development of Federal Indian policy and American Indian resistance to U.S. initiatives as a unifying theme, and we will also consider major shifts in the nature of American Indian sovereignty into the present. This course stresses the integrity and adaptability of American Indian societies, and the centrality of ever-emergent American Indian identity to the experiences of Indian peoples. 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

Amln 4231 The Color of Public Policy: African Americans, American Indians, and Chicanos in the United States
3 credit(s); Credit will not be granted if credit has been received for: AFRO 4231;
Instructor: Haltinner, Kristin
Description: Examination of structural or institutional conditions through which people of color have been marginalized in public policy. Critical evaluation of social theory in addressing the problem of contemporary communities of color in the United States.
Style: 20% Lecture, 20% Film/Video, 50% Discussion, 5% Small Group Activities, 5% Guest Speakers.
Grading: 20% reports/papers, 20% attendance, 60% reflection paper.

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

Amln 4990 Topics in American Indian Studies
1-4 credit(s), max credits 8;
Instructor: Wilkins, David E
Description: "Vine Deloria, a Standing Rock Sioux citizen, is widely considered to be the leading indigenous intellectual. He spent his life in an unrelenting effort to provide native nations with the intellectual, cultural, and
substantive arguments necessary to support their sovereignty. He also was intent on improving intergovernmental relations as well, and sought to educate the broader public about the distinctive rights of native peoples and indigenous knowledge. Deloria was the most prolific native writer in history and published more than twenty-five books and hundreds of articles in a wide range of disciplines. In this course we will discuss and critically analyze a number of his major and lesser known works in several of the interconnected fields he worked in: metaphysics/philosophy, activism, law and policy, religion/spirituality, scientific critiques, and education."

Amln 5108 History of Anishinaabemowin, the Ojibwe Language
A-F only, 3 credit(s); 3107 or instr consent Credit will not be granted if credit has been received for: AMIN 3108; Instructor: Nichols, John David
Description: Student may contact the instructor or department for information.

Amln 5920 Topics in American Indian Studies: Indigenous Histories and American Colonialism
A-F only, 3 credit(s), max credits 12, 4 completions allowed; Instructor: Chang, David Anthony
Description: Student may contact the instructor or department for information.

Amln 5920 Topics in American Indian Studies: Art of the Aztec Empire
A-F only, 3 credit(s), max credits 12, 4 completions allowed; Instructor: Afanador-Pujol, Angelica J
Description: Student may contact the instructor or department for information.

American Sign Language 240 Learning & Environmental Sciences Building

ASL 1701 American Sign Language I
5 credit(s); Instructor: STAFF
Description: A study of the fundamentals of American Sign Language: Introduction to learning and understanding American Sign Language, cultural values and rules of behavior of the deaf community in the United States. Includes receptive and expressive readiness activities, sign vocabulary, grammatical structure, receptive and expressive finger spelling, and deaf culture. *Please note: A nominal fee may be required to attend a Deaf cultural and/or American Sign Language related event.

ASL 1702 American Sign Language II
5 credit(s); Instructor: STAFF
Description: Continuation of the study of the fundamentals of American Sign Language: Increased communication skill in American Sign Language, cultural values and behavioral rules of the deaf community in the U.S., receptive and expressive, sign vocabulary, grammatical structure, receptive and expressive finger spelling and aspects of deaf culture. (SP-ASL 1701 or instructor approval) Please note: A nominal fee may be required to attend a Deaf cultural and/or American Sign Language related event.

ASL 3703 American Sign Language III
5 credit(s); Instructor: STAFF
Description: Expanded instruction of American Sign Language receptive and expressive activities, sign vocabulary, grammatical structure, receptive and expressive finger spelling, narrative skills, cultural behaviors, and aspects of deaf culture. Abstract and conversational approach. (SP-ASL 1702 or instructor approval) Please note: A nominal fee may be required to attend a Deaf cultural and/or American Sign Language related event.

ASL 3704 American Sign Language IV
5 credit(s); Instructor: STAFF
Description: Increases the emphasis on more abstract and challenging conversational and narrative range. Includes receptive and expressive readiness activities, sign vocabulary, grammatical structure, receptive and expressive finger spelling, various aspects of deaf culture and cultural behavior rules. (SP-ASL 1703 or instructor approval) Please note: A nominal fee may be required to attend a Deaf cultural and/or American Sign Language related event.

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

**ASL 3800 ASL Independent Study: Extended Study**
- **S-N only, 1-3 credit(s), max credits 6;**
- **Instructor:** Applebee, Shirley D
- **Description:** Student may contact the instructor or department for information.

**ASL 3800 ASL Independent Study: Extended Study**
- **S-N only, 1-3 credit(s), max credits 6;**
- **Instructor:** Buchholz, Sandra Kay
- **Description:** Student may contact the instructor or department for information.

**ASL 3800 ASL Independent Study: Extended Study**
- **S-N only, 1-3 credit(s), max credits 6;**
- **Instructor:** Johnson, Rania Jung
- **Description:** Student may contact the instructor or department for information.

**ASL 3800 ASL Independent Study: Extended Study**
- **S-N only, 1-3 credit(s), max credits 6;**
- **Instructor:** Neubarth, Bradley E
- **Description:** Student may contact the instructor or department for information.

**ASL 3800 ASL Independent Study: Extended Study**
- **S-N only, 1-3 credit(s), max credits 6;**
- **Instructor:** Bianco, Sara
- **Description:** Student may contact the instructor or department for information.

**ASL 3800 ASL Independent Study: Extended Study**
- **S-N only, 1-3 credit(s), max credits 6;**
- **Instructor:** Vintinner, Ishaa
- **Description:** Student may contact the instructor or department for information.

**American Studies 104 Scott Hall**

**AmSt 1011 Religions and American Identity in the United States from World War II to the Present**
- **3 credit(s); Credit will not be granted if credit has been received for: RELS 1011; Meets CLE req of Civic Life and Ethics**
- **Instructor:** Prell, Riv-Ellen
- **Description:** How does religion become part of public and political life in the United States? Over the last sixty years religion has played an important role in most of the critical social movements of this period. In addition, the meaning of religious freedom has been contested in the courts leading to some of the most decisions made by the Supreme Court. The course is designed to give students the opportunity to analyze the political and cultural watersheds of the last sixty years through changing ideas about religion in America as well as debates within and between religious traditions and communities. This course will also demonstrate how gender, race, and class have shaped the relationships between religion and politics, and it will examine the persistent tensions between secularism and religiosity and liberalism and fundamentalism in American culture and politics. Some of the case studies will include school bussing, civil rights, gender equality, the War in Viet Nam, and building a mosque and culture center at the site of the World Trade Towers bombed on 9/11. The course emphasizes ethics within the context of public life. It encourages students to examine the meaning of citizenship, its relationship to moral values. It also teaches students about the study of religion as a cultural and social process and emphasizes the complex nature of religion as neither tradition bound, inevitably conservative, nor ahistorical. The class is not a study of comparative religions in America. Rather, it looks at the ways in which religious traditions have engaged public life, and how religious life developed and changed in the United States following WWII.
- **Style:** 50% Lecture, 30% Discussion, 20% Small Group Activities.

**AmSt 1012 Migrants, Refugees, Citizens, and Exiles: The U.S. on an Immigrant Planet**
- **3 credit(s); Meets CLE req of Civic Life and Ethics**
- **Instructor:** Esparza, Rene
- **Description:** Student may contact the instructor or department for information.
AmSt 1905 Freshman Seminar: U.S. Economic Crisis: From Wall Street to Main St.
3 credit(s);
Instructor: Karjanen, David J
Description: This course is an introductory American Studies seminar focused on the recent economic crisis. The course examines current research which discusses the causes, consequences, and policy options regarding current economic challenges. We also look at specific issues in greater depth: the housing crisis and predatory lending, financial regulation and banking, the labor market and job creation, and the broad public policy debate regarding how to "fix" the economy. These debates are situated in a broad, interdisciplinary framework, supplemented by guest speakers from the housing industry, community organizations, and banking. We will also be looking at the Federal Reserve and other key economic institutions, including visiting the Federal Reserve Bank and working on a Habitat For Humanity Project.
Style: 10% Lecture, 50% Discussion, 25% Small Group Activities, 5% Student Presentation, 5% Field Trips, 5% Guest Speakers.

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

AmSt 3113W America's Diverse Cultures
3 credit(s); Meets CLE req of Diversity and Soc Justice US; meets CLE req of Writing Intensive
Instructor: Fajardo, Kale Bantigue
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 Civic Life and Ethics; meets CLE req of Historical Perspectives; 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 Civic Life and Ethics; meets CLE req of Historical Perspectives; meets CLE req of Writing Intensive
Instructor: STAFF
Description: In this course, we will examine how the United States changed since World War II as a result of domestic and international struggles, exploring the role popular culture played in this transformation. During these years the nation became an international power, altering the ways in which Americans understood their place in the world. A new consumer culture and domestic ideal became linked to American identity and Cold War politics. Within the U.S., challenges to the mainstream took the form of a new counter culture, the assertion of black citizenship, and the rise of feminism, each demanding participation in public life and a redefinition of the hierarchies of the past. In this course, we will look at the ways in which these conflicts at home and abroad have changed the ways Americans think about themselves as citizens and the place of our nation in the world.
Style: To be announced instructor will provide specific information
Grading: Grading will be determined by to be announced instructor

AmSt 3632W Jewish Women in the United States
3 credit(s); Credit will not be granted if credit has been received for: JWST 3632W; Meets CLE req of Diversity and Soc Justice US; meets CLE req of Historical Perspectives; meets CLE req of Writing Intensive
Instructor: Prell, Riv-Ellen
Description: This class will examine the history of Jewish women in the United States over the past 150 years. Students will learn about how Jewish women changed family life, entered the work place, built communal structures and participated in the major social movements of this period. The class will look at the diversity of Jewish women's experiences understanding how their differences will allow us to understand that women can only be studied in relationship to issues such as class and race. In studying women within an American minority group the class will focus on the ways in which both anti-Semitism and changing ideas about Jews and race shaped Jewish women's experience. We will address four periods in American Jewish history, from the mid nineteenth century to the present, that marked key turning points in defining American Jewish life for woman. They coincide as well with times of dramatic change in American society. Students will read a variety of sources: fiction, historical narratives, autobiography- as well as viewing films and printed sources such as political cartoons. This body of work will allow the class to understand the ways in which Jewish women were viewed by the larger culture, by Jewish men and one another. The class will create the opportunity both to learn about Jewish women, but also to provide the tools to learn to analyze how forms of racism; including anti-semitism-- and sexism shape society and groups. Class Time: Lecture 30% Discussion 30% Films/DVDs 20% In Class Assignments 20% Work Load 50 pages per week; mid term and final;
three short papers

Style: 50% Lecture, 10% Film/Video, 40% Discussion.
Grading: 20% mid exam, 20% final exam, 40% reports/papers, 20% attendance. The class is writing intensive and the paper will have a number of steps
Exam Format: essay and short answer

AmSt 3713 Lands and Homelands in the American Indian Great Lakes
3 credit(s); Credit will not be granted if credit has been received for: AMIN 3713; Meets CLE req of Diversity and Soc Justice US; meets CLE req of Historical Perspectives
Instructor: Child, Brenda J
Description: Student may contact the instructor or department for information.

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

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

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

AmSt 4962W Second Proseminar in American Studies
3 credit(s); Meets CLE req of Writing Intensive
Instructor: May, Lary L
Description: In this the second proseminar students: 1) focus on the problems related to representative theme, figure, or period, and 2) research and write their senior thesis. American Studies majors engage in discussions and written exercises that demonstrate understanding of the discipline's subject matter, modes of inquiry, and particular insight into the human experience. A related goal of the proseminars is to provide a context in which students can engage in freedom of inquiry and speech and a vigorous exchange of ideas. Respect for different beliefs and points of view, set against a background of academic civility, is essential to our seminars. The aim of writing and debate is to strengthen the student's competence in reading, writing, and speaking with clarity. The seminars also encourage critical thinking and openness to new ideas, combined with intellectual independence and curiosity about the worlds in which we all live. The proseminars thereby expose students to an appreciation of the complexities of knowledge and the capacity to gain new perspectives about one's own life through the study of other groups and peoples. The second proseminar provides the classroom setting in which students develop a plan for researching and producing a project that helps define each student's academic interests. Finally, the writing of the senior paper comes as the culmination of the seminars.
Style: 10% Lecture. class projects (writing exercises for the research paper)
Grading: 30% class participation, 70% other evaluation. research paper

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

AmSt 8232 Cultural Fallout: The Cold War and Its Legacy, Research
3 credit(s);
Instructor: May, Elaine Tyler
Description: Student may contact the instructor or department for information.
AmSt 8401 Practicum in American Studies
5-N only, 3 credit(s);
Instructor: Fajardo, Kale Bantigue
Description: Student may contact the instructor or department for information.

AmSt 8920 Topics in American Studies: Comparative indigenities of the Americas
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Castellanos, Bianet
Description: This course brings together transnational and interdisciplinary scholarship to articulate new ways of pursuing critical Indigenous studies through a hemispheric frame. In light of the shared history of colonization, genocide, racial and sexual violence experienced by indigenous peoples, the goal for this course is to engage with the ways that indigenous and mestizo/o (mixed race) peoples enact resistance to state, nation-state, and imperial attempts to erase, deny, repress, disappear, circumscribe displace, and assimilate indigenous peoples. To do so, this course interrogates key concepts and methodologies, including their intellectual genealogies, used to analyze indigenous experiences across the Americas. Finally, this course attempts to promote a broader understanding of the relationships between Native and decolonizing mestizo/o (mixed race) peoples in the hemisphere.

AmSt 8920 Topics in American Studies: Transnationalism and the U.S.-Mexico Borderlands
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Padilla, Yolanda
Description: Student may contact the instructor or department for information.

Anatomy 6-125 Jackson Hall
ANAT 3601 Principles of Human Anatomy
3 credit(s): [BIOL 1002 or BIOL 1009 or BIOL 2002 or equiv], [Concurrent registration is required (or allowed) in 3602 or Concurrent registration is required (or allowed) in 3612], at least soph credit will not be granted if credit received for: Anat 3001/Anat 3301/Anat 3611/INMD 3001/INMD 3301 Credit will not be granted if credit has been received for: ANAT 3001;
Instructor: Weinhaus PhD, Anthony James
Description: Anatomical relationships. Function based upon form. Clinical applications. Gross (macroscopic) anatomy, histology (microscopic anatomy). Neuroanatomy (nervous system), embryology (developmental anatomy). This course has been renamed from ANAT 3001. (It is advised that students take Principles of Human Anatomy laboratory with this lecture). Prerequisites are: at least sophomore status, and completion of Biol 1001/1002 or 1009 (or equivalent).
Style: 100% Lecture.
Grading: 8% quizzes, 92% additional semester exams.

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

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

ANAT 3608H Principles of Human Anatomy Laboratory for Honors Students
A-F only, 3 credit(s);
Instructor: Cook, Mark S.
Description: Student may contact the instructor or department for information.
ANAT 3611 Principles of Human Anatomy
3 credit(s); [BIOL 1002 or BIOL 1009 or BIOL 2002 or equiv], at least soph; [Concurrent registration is required (or allowed) in 3602 or Concurrent registration is required (or allowed) in 3612] recommended credit will not be granted if credit received for: Anat 3001/Anat3301/Anat 3601/INMD 3001/INMD 3301Credit will not be granted if credit has been received for: ANAT 3001;
Instructor: Weinhaus PhD, Anthony James
Description: Anatomical relationships. Function based upon form. Clinical applications. Gross (macroscopic) anatomy, histology (microscopic anatomy). Neuroanatomy (nervous system), embryology (developmental anatomy). This course has been renamed from ANAT 3301. This course is identical to ANAT 3601. (It is advised that students take Principles of Human Anatomy laboratory with this lecture). Prerequisites are: at least sophomore status, and completion of Biol 1001/ 1002 or 1009 (or equivalent). Lecture for spring of 2010 will be in PWB 2-470
Style: 100% Lecture.
Grading: 8% quizzes, 92% additional semester exams.
Exam Format: Multiple choice

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

ANAT 4900 Directed Studies in Anatomy
S-N only, 1-6 credit(s), max credits 18, 3 completions allowed;
Instructor: Weinhaus PhD, Anthony James
Description: 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 5525 Anatomy and Physiology of the Pelvis and Urinary System
A-F only, 1-2 credit(s), max credits 2, 1 completion allowed; One undergrad anatomy course, one undergrad physiology course, instr consent Credit will not be granted if credit has been received for: PHSL 5525;
Instructor: Katz, Stephen A.
Description: Student may contact the instructor or department for information.

Animal Science 305 Haecker Hall

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

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

**Style:** 100% Lecture.

**Grading:** 100% other evaluation. Each of the 3 exams worth 33% each.

**Exam Format:** Fill-in-the-blanks, definitions, true/false, matching.

**AnSc 2012 Livestock and Carcass Evaluation**

- **3 credit(s);**
- **Instructor:** Rozeboom,Kyle James
- **Description:** Student may contact the instructor or department for information.

**AnSc 3007 Equine Nutrition**

- **3 credit(s);**
- **Instructor:** Hathaway,Marcia R
- **Description:** This course will include the basic principles of nutrition with emphasis on the unique aspects of equine nutrition. Emphasis will be on nutritional needs of healthy animals as well as the various factors that play a role in feeding an animal adequately. These factors include animal behavior, growth and development, physiological status, environmental conditions, food type and availability. The course will focus on developing an understanding of how the physiology of the horse's gastrointestinal tract, the utilization of feedstuffs and the horse's nutritional requirements interrelate. Students will learn how to formulate balanced rations and avoid nutritional related ailments. Students will learn how to seek and interpret information so they can make decisions on important issues such as pasture management, forage selection and the use of dietary feed additives and enhancers. Course Objectives: As a result of taking this course, students will be able to: 1. develop or enhance their appreciation of the nutritional requirements of the horse. 2. recognize the rationale behind the change in nutritional requirements of horses at different stages of development and under different physiological demands change. 3. become familiar with the physiology of the equine gastrointestinal tract. 4. understand the basic management skills that are required for the proper feeding of horses to avoid nutritional based ailments.
- **Style:** 75% Lecture, 25% Discussion.
- **Grading:** 50% mid exam, 20% final exam, 10% laboratory evaluation, 20% problem solving.
- **Exam Format:** short answer

**AnSc 3011 Statistics for Animal Science**

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

**AnSc 3141 Advanced Dairy Judging**

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

**AnSc 3203W Environment, Global Food Production, and the Citizen**

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

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

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

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

**AnSc 3203W Environment, Global Food Production, and the Citizen**

3 credit(s); Credit will not be granted if credit has been received for: AGRO 3203W; Meets CLE req of Global Perspectives; meets CLE req of Writing Intensive

**Instructor:** Raeth-Knight, Mary Louise

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

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

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

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

**AnSc 3301 Human and Animal Physiology**

3 credit(s);

**Instructor:** Wheaton, Jonathan E

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

**Style:** 100% Lecture.

**Grading:** 89% mid exam, 11% quizzes.

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

**AnSc 3302 Human and Animal Physiology Laboratory**

1 credit(s);

**Instructor:** Wheaton, Jonathan E

**Description:** This is a companion course to Human and Animal Physiology, AnSc 3301 (or an equivalent upper division course in systemic physiology). Students conduct computer-assisted and non-assisted laboratory experiments. Students usually work in teams. Each student prepares lab reports and answers discussion questions. These are due and reviewed the following week. At the end of the semester a team final written report and oral presentation is required that addresses a student-selected topic in physiology. Experiments cover the nervous system, muscles, cardiovascular, blood, respiration and metabolism.

**Style:** 46% Discussion, 54% Laboratory.

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

**AnSc 3307 Artificial Insemination Techniques**

S-N only, 1 credit(s);

**Instructor:** Seykora, Anthony James

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

**AnSc 3501 Farm Animal Environment**

3 credit(s);

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

**Description:** Student may contact the instructor or department for information.
AnSc 3511 Animal Growth and Development
3 credit(s);
Instructor: Dayton, William R
Description: Student may contact the instructor or department for information.

AnSc 3801 Livestock Merchandising
3 credit(s);
Instructor: Rozeboom, Kyle James
Description: Student may contact the instructor or department for information.

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

AnSc 4011 Dairy Cattle Genetics
3 credit(s);
Instructor: Hansen, Leslie Bennett
Description: This course is very applied in nature. Some problem solving assignments may be hypothetical, but in most cases, real circumstances are discussed. Much class time is devoted to discussion. The course has been popular with international students in the MAST program. Because dairy cattle genetics from the US has had a major impact on dairy cattle worldwide, the international flavor of discussions is very appropriate. There is some straight lecture, but this is usually sprinkled with questions that are followed by discussion. The instructor attempts to have students address questions that are raised and jointly arrive at a solution. Quantitative genetic principles are the primary focus, with rates of genetic improvement and systems of breeding emphasized.
Style: 35% Lecture, 40% Discussion, 25% Laboratory.
Grading: 20% mid exam, 20% final exam, 30% special projects, 30% problem solving.
Exam Format: Short answer, essay

AnSc 4092 Special Problems in Animal Science
1-4 credit(s), max credits 4, 1 completion allowed;
Instructor: Cox, Ryan Bradley
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;
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;
Instructor: Seymour, 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;
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;
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;
Instructor: Mauro PhD, Laura J.
Description: Student may contact the instructor or department for information.

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

AnSc 4096 Professional Experience Program: Internship
S-N only, 1-3 credit(s), max credits 6;
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;
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;
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;
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;
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;
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;
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: Reneau, Jeffrey Kimball  
Description: Student may contact the instructor or department for information.

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

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

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

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

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

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

AnSc 8510 Graduate Seminar  
1 credit(s), max credits 12, 12 completions allowed;  
Instructor: Dayton, William R  
Description: Student may contact the instructor or department for information.
Anth 1001 Human Evolution
4 credit(s); Meets CLE req of Biological Sciences
Instructor: Holt, Kirsten Elise
Description: Student may contact the instructor or department for information.

Anth 1001 Human Evolution
4 credit(s); Meets CLE req of Biological Sciences
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% Laboratory.

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

Exam Format: multiple choice

Anth 1003V Understanding Cultures: Honors
A-F only, 4 credit(s); Meets CLE req of Global Perspectives; meets CLE req of Social Sciences; meets CLE req of Writing Intensive
Instructor: McLean, Stuart J
Description: Student may contact the instructor or department for information.

Anth 1003W Understanding Cultures
4 credit(s); Meets CLE req of Global Perspectives; meets CLE req of Social Sciences; meets CLE req of Writing Intensive
Instructor: 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 1904 Freshman Seminar: Learning Anthropology through Science Fiction
A-F only, 3 credit(s);
Instructor: Tostevin, Gilbert B
Description: Student may contact the instructor or department for information.

Anth 1905 Freshman Seminar: Anthropology and Photography
A-F only, 3 credit(s);
Instructor: Wolbert, Barbara
Description: We will learn about the parallel histories of photography and anthropology. Our focus will be socio-cultural anthropologists? production of photographs and their use of photography from the 19th century to the present. By mapping out the changing role of photography in comparison to film and other visual media in the discipline of anthropology, we will examine photography as a social medium. We will unpack the relation of images and text by considering how photographs illustrate and words comment on (or speak back to) photographs. The course will treat photographs as documents and as artifacts, with special attention given to archives, exhibitions and museums contexts. Analysis of photographic work at the intersection of ethnography and art will allow us to evaluate critically the politics of contemporary image production and technology, and to reflect on our own photographic practices. We will take a rather experimental and hands-on approach by incorporating three student research projects as the focal point
of our endeavors. One small-scale research project will bring out the historian in you: This project will focus on a photograph, which has played a role in the acquisition of anthropological knowledge and the construction of ethnographic authority. The second project on photography as social practice turns you into an interviewer: You will ask another person to speak to you about a photograph he or she treasures. Finally, you will become the photographer as you embark on a field study for your third research project. Throughout the course, you will work individually and collaboratively (with a partner and as part of a group). The seminar format enables off-campus fieldtrips during class time, and allows us to divide our class time in immediate project-related activities and in lecture or panel sessions focusing on related readings.

**Anth 3001 Introduction to Archaeology**  
4 credit(s); Meets CLE req of Social Sciences  
Instructor: Monnier, Gilliane F  
Description:

**Anth 3002 Sex, Evolution, and Behavior: Examining Human Evolutionary Biology**  
A-F only, 4 credit(s); Credit will not be granted if credit has been received for: EEB 3002;  
Instructor: Wilson, Michael Lawrence  
Description: Evolutionary theory provides unique insights into fundamental aspects of human behavior, including sex differences, courtship, marriage, reproduction, aggression and cooperation. In this course, lectures, reading and discussion of primary literature will help students develop a critical understanding of the theory, methods, and findings of this rapidly growing field.

**Anth 3003 Cultural Anthropology**  
3 credit(s); Credit will not be granted if credit has been received for: GLOS 3003;  
Instructor: Ho, Karen  
Description: This course closely examines different theoretical approaches to the study of different cultures. Major conceptual frameworks in modern cultural anthropology will be selected, such as social structural, Marxist, poststructural, and globalization. We will delve into such key themes as the relationships between power, history, and representation; culture and identity; self and society; west and "non-west"; diversity and difference. In addition, we will focus on such social and conceptual problems such as the production and reproduction of social hierarchies and inequalities. Ethnographic monographs and essays will form the basis of the readings. Works such as Taussig's "The Devil and Commodity Fetishism" and Kondo's "Crafting Selves" will be read both for ethnographic and theoretical goals and contents. The course is meant for premajors, majors and other interested students. It will be taught using lecture format and small group activities.  
Style: 60% Lecture, 40% Discussion.  
Grading: 35% mid exam, 30% final exam, 20% written homework, 15% class participation.  
Exam Format: take-home essays and short answer questions

**Anth 3005W Language, Culture, and Power**  
4 credit(s); Meets CLE req of Diversity and Soc Justice US; meets CLE req of Social Sciences; 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 Historical Perspectives
Instructor: Wells, Peter S
Description: Examines the development of complex societies, from early hunter-gatherer groups through settled agricultural villages, to the rise of towns and cities. Comparison of processes of change in ten regions of the world. Intended for all undergraduates.
Style: 95% Lecture, 5% Discussion.
Grading: 45% mid exam, 35% final exam, 20% reports/papers.
Exam Format: multiple choice, essay

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

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

Anth 3035 Anthropologies of Death
A-F only, 3 credit(s); Meets CLE req of Global Perspectives; meets CLE req of Social Sciences
Instructor: Langford, Jean M
Description: In this course we explore death from anthropological, historical, and cultural studies perspectives. We consider and discuss death rites, mourning practices, treatments of dead bodies, understandings of afterlife, and relationships with the dead within different social and political contexts. We pay particular attention to how these practices are informed and transformed by historical conditions and conflicts. We also discuss the medicalization of death in the modern world, addressing some of the recent shifts and controversies related to biological definitions of death and cultural interpretations of what constitutes "good" or "natural" death. We explore the responses to contemporary bioethics of death on the part of various cultural communities. Finally we consider overtly politicized deaths, including the deaths of public figures and deaths due to political violence. We investigate the ways that the dead are recruited for contemporary national or community agendas, becoming voices for concerns about violence, alienation and injustice. The objective of the course is to reflect on the social and political meanings of death and to understand how ideas and practices related to death are shaped by historical experience. Texts and Readings include Passed on: African American Mourning Stories by Karla FC Holloway, Mourning and Melancholia by Sigmund Freud, A Contribution to the Study of the Collective Representation of Death by Robert Hertz, excerpts from The Last Word: Women, Death and Divination in Inner Mani by Nadia Seremetakis, excerpts from Death Without Weeping by Nancy Scheper-Hughes, excerpts from Western Attitudes Toward Death by Philippe Aries, excerpts from ...And A Time to Die: How American Hospitals Shape the End of Life, excerpts from Mourning Diana: Nation, Culture and the Peformance of Grief ed. by Adrian Lear and Deborah Lynn Steinberg, excerpts from The Political Lives of Dead Bodies by Katherine Verdery, and more. Readings are accompanied by documentary films. The class is largely constructed around large and small group discussion, with brief lectures.
Style: 20% Lecture, 10% Film/Video, 50% Discussion, 20% Small Group Activities.
Grading: 30% final exam, 30% reports/papers, 10% in-class presentation, 30% class participation.
Exam Format: Take-home short essay exam

Anth 3036 The Body in Society
3 credit(s);
Instructor: Valentine, David
Description: Student may contact the instructor or department for information.

Anth 3143 American Indian Languages and Cultures
3 credit(s); Credit will not be granted if credit has been received for: AMIN 3143;
Instructor: Fairbanks, Brendan George
Description: Student may contact the instructor or department for information.

Anth 3242W Hero, Savage, or Equal? Representations of NonWestern Peoples in the Movies
A-F only, 3 credit(s); Meets CLE req of Writing Intensive
Instructor: Lipset, David M
Description: This course will explore images of nonWestern peoples and cultures as they have appeared in the movies and in other popular media. It has four aims: 1) to introduce the problem of nonWestern peoples in the West from historical points of view, 2) to discuss the relationship between mass media and issue of representation to the marketplace, 3) to introduce the concept of morality in and through collective representations as developed by Durkheim, and 4) to analyze the problem of moral agency in a series of Hollywood and independent movies which portray nonwestern peoples and cultures. We will watch movies portraying three different groups of cultures, Pacific Islanders, Native Americans, and the Japanese. In each unit, we will first read important commentary on Western representations of each of these peoples, such as Bernard Smith on Pacific Islanders and Vine Deloria on images of Native Americans and Gina Marchetti on Hollywood's Japanese.
Style: 30% Lecture, 50% Film/Video, 10% Discussion, 10% Small Group Activities.
Grading: 95% reports/papers, 5% class participation.

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

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

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

Anth 3913 Senior Project Planning
1 credit(s);
Instructor: Tappen, Martha
Description: Student may contact the instructor or department for information.

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

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

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

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

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

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

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

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

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

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

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

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

Anth 3913 Senior Project Planning  
1 credit(s);  
Instructor: McKay, Ramah  
Description: Student may contact the instructor or department for information.

Anth 4001 Advanced Method and Theory in Archaeology  
3 credit(s), max credits 9, 3 completions allowed;  
Instructor: Monnier, Gilliane F  
Description: Student may contact the instructor or department for information.

Anth 4007 Laboratory Techniques in Archaeology  
1-4 credit(s), max credits 12, 3 completions allowed;  
Instructor: Soderberg, John A  
Description: This course offers an internship experience in the Department of Anthropology laboratories. Students gain hands-on experience with research and curation projects that faculty and graduate students are running. Each semester the projects vary according to what research is happening in the labs. The course is offered for variable credit, with students working in the lab three hours per credit per week. Meeting hours are arranged with the
supervisor for each project. Admission to the course is via an application. For more information contact John Soderberg (sode0018@umn.edu).

**Anth 4013 Senior Project**

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

**Anth 4013 Senior Project**

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

**Anth 4013 Senior Project**

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

**Anth 4013 Senior Project**

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

**Anth 4013 Senior Project**

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

**Anth 4013 Senior Project**

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

**Anth 4013 Senior Project**

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

**Anth 4013 Senior Project**

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

**Anth 4013 Senior Project**

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

**Anth 4013 Senior Project**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Anth 4035 Ethnographic Research Methods
3 credit(s);
Instructor: McKay, Ramah
Description: Student may contact the instructor or department for information.

Anth 4121 Business Anthropology
3 credit(s); Credit will not be granted if credit has been received for: ANTH 5121;
Instructor: Beeman, William O
Description: Student may contact the instructor or department for information.

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

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

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

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

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

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

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

Anth 4991 Independent Study
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Tostevin, Gilbert B
Description: Student may contact the instructor or department for information.
Anth 4991 Independent Study
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Wilson, Michael Lawrence
Description: Student may contact the instructor or department for information.

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

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

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

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

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

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

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

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

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

Anth 4992 Directed Readings
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Wells, Peter S
Description: Student may contact the instructor or department for information.

Anth 4992 Directed Readings
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Raheja, Gloria Goodwin
Description: Student may contact the instructor or department for information.
Anth 4992 Directed Readings
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Gudeman, Stephen Frederick
Description: Student may contact the instructor or department for information.

Anth 4992 Directed Readings
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Tappen, Martha
Description: Student may contact the instructor or department for information.

Anth 4992 Directed Readings
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Lipset, David M
Description: Student may contact the instructor or department for information.

Anth 4992 Directed Readings
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Langford, Jean M
Description: Student may contact the instructor or department for information.

Anth 4992 Directed Readings
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Taussig, Karen-Sue
Description: Student may contact the instructor or department for information.

Anth 4992 Directed Readings
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Tostevin, Gilbert B
Description: Student may contact the instructor or department for information.

Anth 4992 Directed Readings
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Wilson, Michael Lawrence
Description: Student may contact the instructor or department for information.

Anth 4992 Directed Readings
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Monnier, Gilliane F
Description: Student may contact the instructor or department for information.

Anth 4992 Directed Readings
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Ho, Karen
Description: Student may contact the instructor or department for information.

Anth 4992 Directed Readings
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Valentine, David
Description: Student may contact the instructor or department for information.

Anth 4992 Directed Readings
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: McLean, Stuart J
Description: Student may contact the instructor or department for information.

Anth 4992 Directed Readings
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Song, Hoon
Description: Student may contact the instructor or department for information.
Anth 4992 Directed Readings
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Beeman, William O
Description: Student may contact the instructor or department for information.

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

Anth 4992 Directed Readings
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Hayes, Katherine F H
Description: Student may contact the instructor or department for information.

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

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

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

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

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

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

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

Anth 4993 Directed Study
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Tostevin, Gilbert B
Description: Student may contact the instructor or department for information.
Anth 4993 Directed Study
  1-6 credit(s), max credits 6, 1 completion allowed;
  Instructor: Wilson, Michael Lawrence
  Description: Student may contact the instructor or department for information.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Anth 5031W Ethnographies of Science
A-F only, 3 credit(s); Meets CLE req of Writing Intensive
Instructor: Langford, Jean M
Description: In this course we will explore issues in science and technology studies, with an emphasis on ethnographic accounts of scientific practice and on examinations of the differences in scientific practice at a variety of U.S. and international sites. Questions addressed by the course include the following: What are some of the social and cultural influences in the development of scientific epistemologies and methods? How are scientific facts constructed and negotiated and disseminated? Who are the agents involved in scientific knowledge production? How is science translated for and interpreted by non-scientific communities? In what ways does science frame the relationships between humans and non-humans? What does it mean to study science ethnographically and what do we learn by doing so? How do scientific projects articulate with discourses and hierarchies of race, nationality, and gender? How is science deployed, reinterpreted and resisted outside of Europe and North American centers of scientific authority? In what ways is science implicated in particular political agendas and struggles? What is place of imagination in scientific encounters with the world? The course is conducted as seminar with discussion of readings accompanied by films. Readings will include Biocapital: The Constitution of Postgenomic Life by Kaushik Sunder Rajan, Wild Profusion: Biodiversity Conservation in an Indonesian Archipelago by Celia Lowe, The Nuclear Borderlands: The Manhattan Project in Post-Cold War New Mexico by Joseph Masco, When Nature Goes Public: The Making and Unmaking of Bioprospecting in Mexico, We Have Never Been Modern by Bruno Latour, and articles by Lorraine Daston, Donna Haraway, Michel Serres, Hugh Raffles, Gyan Prakash, Joseph Dumit, Ian Hacking, and others.
Style: 10% Film/Video, 75% Discussion, 15% Student Presentation.
Grading: 75% reports/papers, 25% class participation.

Anth 5121 Business Anthropology
2 credit(s); MBA student Credit will not be granted if credit has been received for: ANTH 4121;
Instructor: Beeman, William O
Description: Student may contact the instructor or department for information.

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

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

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

**Grading:** 25% reports/papers, 25% special projects, 50% class participation. Papers and site reports will be presented to the class.

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

**Anth 5403 Quantitative Methods in Biological Anthropology**
- A-F only, 4 credit(s);
- **Instructor:** McNulty, Kieran P
- **Description:** Student may contact the instructor or department for information.

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

**Anth 5446 Archaeology of Representation as Communication**
- A-F only, 3 credit(s);
- **Instructor:** Wells, Peter S
- **Description:** The seminar examines uses of representations - paintings, sculptures, drawings, photographs - as means of communication, from the earliest representations of 30,000 years ago to the present day.
- **Style:** 80% Discussion, 20% Student Presentation.
- **Grading:** 50% reports/papers, 10% special projects, 30% in-class presentation, 10% class participation.

**Anth 5448 Applied Heritage Management**
- A-F only, 3 credit(s);
- **Instructor:** Anfinson, Scott F
- **Description:** Student may contact the instructor or department for information.

**Anth 5980 Topics in Anthropology: Language and Gender**
- 1-6 credit(s), max credits 12;
- **Instructor:** Sheldon PhD, Amy
- **Description:** Language and Gender Taught with Anth 5980. Prereq: Introduction to Linguistics, Introduction to Linguistic Anthropology, or equivalent. Description: Language and Gender Taught with Anth 5980. Prereq: Introduction to Linguistics, or Introduction to Linguistic Anthropology, or the equivalent, or instr consent, 3 credits,
- **Instructor:** Sheldon, Amy
- **Description:** This course will critically examine whether and how language and communicative practices construct and represent normative and non-normative sexualities and genders. Possible topics: gender socialization through language; genderlects; gender as binarity or multiplicity; gender as linguistic stylization; language issues in LGBT communities; sexist and nonsexist language; language reform; conversational and rhetorical practices that create dominance, subordination, silencing and resistance. Language contexts include, but are not limited to: everyday conversational interactions that create personal relationships, personal narratives, talk in public spaces (e.g., radio/TV/print media, classrooms, workplaces, online language), etc. Students will observe their own and others' everyday speech and will work with found or recorded examples. Term projects can be started early and developed with guidance across the semester. The focus is on English but comparisons across languages are welcome. Moodle enhanced. Electronic reserves and text. If you have questions, please contact Professor Amy Sheldon, asheldon@umn.edu Moodle enhanced. Electronic reserves and text. If you have questions, please contact Professor Amy Sheldon, asheldon@umn.edu
- **Style:** 20% Lecture, 25% Discussion, 30% Small Group Activities, 20% Student Presentation, 5% Demonstration.
Anth 5980 Topics in Anthropology: Art & Politics: Post-War German Exhibits & Debates
1-6 credit(s), max credits 12;
Instructor: Wolbert, Barbara
Description: Description: Exploring identity politics in Germany, we will focus on art events and cultural institutions - such as exhibitions and museums - in the context of globalization and the formation of new geopolitical formations. 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. Through exhibits of art referred to as 'international art', 'world art', 'global art', 'ethnic art', 'Non-Western art', we will analyze the notion of otherness at a particular point in time and critically examine contemporary German and European cultural politics. We will describe the appropriation of concepts such as integration, multiculturalism and cultural commons into political discourses in Germany and we will take a critical view of visual culture and political power in a globalizing world. Aiming at a better understanding of post-wall Germany, this 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 Germany, and Unified Germany. While the selection of catalogs and slides from exhibition sites focuses on the German case, the theoretical readings allow for a more general and conceptual discussion. This course aims at broadening your general 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 dealing also with images and studying displays on site, this is also a course in visual cultural studies. You will be encouraged to formulate descriptions carefully, develop your own interpretations, and critically make use of images and readings. This course may serve the interests and needs of students who are seeking to expand their knowledge of German culture and politics during the past century. You may take this course furthermore as an introduction to contemporary German and European cultural politics.
Style: 30% Lecture, 5% Film/Video, 20% Discussion, 10% Small Group Activities, 25% Student Presentation, 10% Field Trips.
Grading: 5% mid exam, 15% final exam, 30% reports/papers, 10% written homework, 20% in-class presentation, 20% class participation.
Exam Format: Midterm exam: Questionnaire, Final Exam: Essay Format

Anth 5990 Topics in Archaeology: Historical Archaeology
A-F only, 3 credit(s), max credits 9, 3 completions allowed;
Instructor: Hayes, Katherine F H
Description: Graduate-level coursework in Historical Archaeology (see description for 3028 for course content); will require students to complete an independent research project on a topic approved by instructor. This research may be site-based, or focused on a specific type of material culture, and must be problem-oriented. Final products of the research will be a 15-20 page written paper, and an in-class presentation.

Anth 8203 Research Methods in Social and Cultural Anthropology
3 credit(s);
Instructor: McKay, Ramah
Description: Student may contact the instructor or department for information.

Anth 8213 Ecological Anthropology
3 credit(s); Credit will not be granted if credit has been received for: ANTH 3041;
Instructor: Wilson, Michael Lawrence
Description: Student may contact the instructor or department for information.

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

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

**Grading:** 25% reports/papers, 25% special projects, 50% class participation. Papers and site reports will be presented to the class.

**Anth 8510 Topics in Archaeology**
- 3-9 credit(s), max credits 9, 3 completions allowed;
- Instructor: Anfinson, Scott F
- **Description:** Student may contact the instructor or department for information.

**Anth 8510 Topics in Archaeology: Archaeology of Representation as Communication**
- 3-9 credit(s), max credits 9, 3 completions allowed;
- Instructor: Wells, Peter S
- **Description:** This course examines the archaeology of the British Isles, with an emphasis on Great Britain. The seminar covers the history of archaeology, as well as the material remains of societies that inhabited the British Isles from some 700,000 years ago to the present. Among the periods covered are the Neolithic, the Bronze Age, the Iron Age, the Roman Period, and the early Middle Ages. Different interpretations of the archaeological material are considered.
  - **Style:** 100% Discussion.
  - **Grading:** 35% special projects, 55% in-class presentation, 10% class participation.

**Anth 8510 Topics in Archaeology: Reconstruction Hominim Behavior**
- 3-9 credit(s), max credits 9, 3 completions allowed;
- Instructor: Tappen, Martha
- **Description:** Student may contact the instructor or department for information.

**Anth 8810 Topics in Sociocultural Anthropology**
- 3 credit(s), max credits 9, 3 completions allowed;
- Instructor: Taussig, Karen-Sue
- **Description:** Student may contact the instructor or department for information.

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

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

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

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

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

**Anth 8991 Independent Study**
- 1-18 credit(s), max credits 18, 1 completion allowed;
- Instructor: Langford, Jean M
- **Description:** Student may contact the instructor or department for information.
Anth 8991 Independent Study
1-18 credit(s), max credits 18, 1 completion allowed;
Instructor: Taussig,Karen-Sue
Description: Student may contact the instructor or department for information.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Anth 8993 Directed Study
1-18 credit(s), max credits 18, 3 completions allowed;
Instructor: Wells, Peter S
Description: Student may contact the instructor or department for information.

Anth 8993 Directed Study
1-18 credit(s), max credits 18, 3 completions allowed;
Instructor: Raheja, Gloria Goodwin
Description: Student may contact the instructor or department for information.

Anth 8993 Directed Study
1-18 credit(s), max credits 18, 3 completions allowed;
Instructor: Gudeman, Stephen Frederick
Description: Student may contact the instructor or department for information.

Anth 8993 Directed Study
1-18 credit(s), max credits 18, 3 completions allowed;
Instructor: Tappen, Martha
Description: Student may contact the instructor or department for information.

Anth 8993 Directed Study
1-18 credit(s), max credits 18, 3 completions allowed;
Instructor: Lipset, David M
Description: Student may contact the instructor or department for information.

Anth 8993 Directed Study
1-18 credit(s), max credits 18, 3 completions allowed;
Instructor: Langford, Jean M
Description: Student may contact the instructor or department for information.
Anth 8993 Directed Study  
1-18 credit(s), max credits 18, 3 completions allowed;  
Instructor: Taussig, Karen-Sue  
Description: Student may contact the instructor or department for information.

Anth 8993 Directed Study  
1-18 credit(s), max credits 18, 3 completions allowed;  
Instructor: Tostevin, Gilbert B  
Description: Student may contact the instructor or department for information.

Anth 8993 Directed Study  
1-18 credit(s), max credits 18, 3 completions allowed;  
Instructor: Wilson, Michael Lawrence  
Description: Student may contact the instructor or department for information.

Anth 8993 Directed Study  
1-18 credit(s), max credits 18, 3 completions allowed;  
Instructor: Monnier, Gilliane F  
Description: Student may contact the instructor or department for information.

Anth 8993 Directed Study  
1-18 credit(s), max credits 18, 3 completions allowed;  
Instructor: Ho, Karen  
Description: Student may contact the instructor or department for information.

Anth 8993 Directed Study  
1-18 credit(s), max credits 18, 3 completions allowed;  
Instructor: Valentine, David  
Description: Student may contact the instructor or department for information.

Anth 8993 Directed Study  
1-18 credit(s), max credits 18, 3 completions allowed;  
Instructor: McLean, Stuart J  
Description: Student may contact the instructor or department for information.

Anth 8993 Directed Study  
1-18 credit(s), max credits 18, 3 completions allowed;  
Instructor: Song, Hoon  
Description: Student may contact the instructor or department for information.

Anth 8993 Directed Study  
1-18 credit(s), max credits 18, 3 completions allowed;  
Instructor: Beeman, William O  
Description: Student may contact the instructor or department for information.

Anth 8993 Directed Study  
1-18 credit(s), max credits 18, 3 completions allowed;  
Instructor: McNulty, Kieran P  
Description: Student may contact the instructor or department for information.

Anth 8993 Directed Study  
1-18 credit(s), max credits 18, 3 completions allowed;  
Instructor: Hayes, Katherine F H  
Description: Student may contact the instructor or department for information.

Anth 8993 Directed Study  
1-18 credit(s), max credits 18, 3 completions allowed;  
Instructor: McKay, Ramah  
Description: Student may contact the instructor or department for information.
Anth 8994 Directed Research
1-18 credit(s), max credits 18, 1 completion allowed;
Instructor: Wells, Peter S
Description: Student may contact the instructor or department for information.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Apparel Design 240 McNeal Hall

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

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

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

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

ADes 2221 Apparel Design Studio I
A-F only, 4 credit(s);
Instructor: STAFF
Description: Introduction to theories and methods used to solve problems in designing clothing for a variety of user groups. Developing an understanding of the relationship of the 2-dimensional pattern shape to the 3-dimensional body. Introduction to basic flat pattern, draping and fitting principles. The objectives of the course are: To understand the basic relationship of the 2-dimensional plane to the 3-dimensional body in developing patterns; To understand and utilize flat pattern manipulation to vary pattern style while maintaining size in the design of clothing; To examine,
evaluate, and utilize pattern development techniques as appropriate for selected clothing designs; To learn the basic process of apparel design ideation through the use of a variety of illustration techniques; To learn and implement the basic process of apparel pre-production form design concept through finished sample. This class is designed for pre-clothing design majors who have completed the necessary prerequisites: DHA 1201, 1311, 1221, 1312. The class is designed for studio learning opportunities with supporting lecture and demonstrations. Project work requires an average of 15 hours outside of class.

**Style:** 25% Lecture. Studio  
**Grading:** 50% special projects, 50% problem solving.

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

**ADes 3224 Apparel Design Studio IV**  
**A-F only, 3 credit(s);**  
**Instructor:** Dunne, Lucy Elizabeth  
**Description:** This class uses an engineering-type design process to analyze and meet the functional needs of specific user groups. We design clothing that protects users from impact, from thermal and weather conditions, and to facilitate and/or expand body function and movement. A theoretical understanding of human anatomy and anthropometrics is applied in facilitating design for a variety of body types, work environments, and activities. Class projects are often conducted with an industry partner, and project work introduces advanced patterning techniques for function and mobility. Text is "Clothing: The Portable Environment", by Watkins. Prerequisite is Clothing Design Studio III.  
**Style:** 40% Lecture, 60% Studio.  
**Grading:** 70% special projects, 5% class participation, 25% other evaluation.

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

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

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

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

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

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

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

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

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

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

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

ADes 4215 Product Development: Softlines
A-F only, 4 credit(s);
Instructor: LaBat, Karen Louise
Description: Follow the product development process to develop a product or product line for a Minnesota company. Work in teams of design and merchandising students to identify the product opportunity within guidelines presented by the company, research background information to develop the product, conduct ideation sessions, select a product direction based on your research, develop and evaluate a prototype—present the results to the sponsoring company for their evaluation and feedback. Project this year with Target Corporation. Must be Apparel Design or Retail Merchandising senior with sufficient background to participate in this fast-paced project.
Style: 10% Lecture, 5% Discussion, 5% Laboratory, 45% Small Group Activities, 5% Student Presentation, 5% Demonstration, 5% Field Trips, 15% Studio, 5% Guest Speakers.
Grading: Grade based on work on the project for the company. Auality of effort is determined through evaluation of presentations and project results. Portion of grade determined through peer evaluation and evaluation by project sponsor.

Apparel Studies 240 McNeal Hall

ApSt 5121 History of Costume
A-F only, 4 credit(s);
Instructor: DeLong, Marilyn R
Description: Student may contact the instructor or department for information.
ApSt 5193 Directed Study in Apparel Studies
A-F only, 1-4 credit(s), max credits 8;
Instructor: STAFF
Description: Directed study in design, housing and apparel. The topics, course content and readings are developed under the guidance of the supervising faculty member. Typically reserved for graduate students.
Style: Working with supervising faculty
Grading: 100% reports/papers. Or may be related to a project

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

ApSt 8268 Behavioral Aspects of Dress
A-F only, 3 credit(s);
Instructor: Im, Hyunjoo
Description: Student may contact the instructor or department for information.

Applied Business 20 Ruttan Hall

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

ABus 3301 Introduction to Quality Management
A-F only, 3 credit(s);
Instructor: Martens, Scott L
**ABus 4022 Management in Organizations**
A-F only, 3 credit(s);
Instructor: Haarklau,Evon A

**Description:** This fully online section is offered through Online and Distance Learning (ODL), College of the Continuing Education. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. This course brings together key elements from the practical (on the job), the theoretical (in the classroom), and the personal (self-assessment) to facilitate a better understanding of management as a profession. By the conclusion of this course, you will have learned to: --compare and contrast theoretical and practical thinking on professional management, and apply this knowledge to current practice; --describe and apply the characteristics of a strong manager in a high-performance organization; --explain and illustrate how planning, organizing, leading, and controlling are accomplished in a specific industry or organization; and --assess your own aptitude, interest, and knowledge for entering the management profession.

**Style:** 100% Web Based.

**Grading:** See attached syllabus

---

**ABus 4023W Communicating for Results**
A-F only, 3 credit(s); Meets CLE req of Writing Intensive
Instructor: Lowry,Ann E.

**Description:** This is a fully online section offered through Online and Distance Learning (ODL), College of the Continuing Education. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. Aspects of communication essential for being persuasive and influential. Organizing and presenting ideas effectively, strategies for audience analysis, choosing communication methods, making appropriate use of informal influence methods, and handling dissent. Processes for intercultural communication.

**Style:** 100% Web Based.

**Grading:** See attached syllabus

---

**ABus 4041 Dynamics of Leadership**
A-F only, 3 credit(s);
Instructor: Kaiser,David

**Description:** This is a fully online section offered through Online and Distance Learning (ODL), College of the Continuing Education. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. In this course, your learning about leadership will occur in two ways: --learning about and understanding leadership strategies, values, characteristics, and styles (the context) --analyzing your own perspectives and beliefs about leadership (your interpretation of the context) This course will give you the knowledge and understanding of the qualities and skills necessary to become a leader within various contexts. It will assist you in working in various organizational environments and understanding the impact of globalization and diversity on achieving organizational directives.

**Style:** 100% Web Based.

**Grading:** See attached syllabus

---

**ABus 4101 Accounting and Finance for Managers**
A-F only, 3 credit(s);
Instructor: Vickman,Thomas M

**Description:** This fully online course is offered through Online and Distance Learning (ODL), College of Continuing Education. Visit "Class URL" for ODL policies, including fee and financial aid information. You will look at your career from a new perspective, and increase your contribution to the bottom line, whatever your role. Accounting is the language of business, and finance is not very far behind. Learn to talk the talk and make effective financial contributions. You will learn a variety of basic scenarios using accounting and finance models and the knowledge and tools for applying them to a particular business sector: retail, manufacturing, government, hospitality, non-profit, medical, construction.

**Style:** 100% Web Based.

**Grading:** See attached syllabus

---

**ABus 4104 Management and Human Resource Practices**
A-F only, 3 credit(s);
Instructor: Benraouane,Sid A.
**Description:** This is a fully online course offered through Online and Distance Learning (ODL), College of Continuing Education. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. Introduces students to a broad overview of human resource practices in organizations as well as basic responsibilities of front line managers. Emphasis is on providing day-to-day leadership including organizing work, motivating employees, delegating, coordinating and achieving results. Human resource practices carried out at the front line include selection induction and training of new employees, employee appraisal, handling grievances and discipline.

**Style:** Online  
**Grading:** See attached syllabus

**ABus 4151 Innovation for Leaders and Organizations**  
**A-F only, 3 credit(s);**  
**Instructor:** Flanders, Gordon R  
**Description:** This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. Innovation as a cornerstone of a knowledge economy. History and value of the innovation process, and importance to individuals and organizations. Strategies to foster personal and collaborative innovation. Responsibilities in personal innovation skill-building and leading innovation in organizations.

**Style:** Online  
**Grading:** See attached syllabus

**ABus 4509 New Product Development**  
**A-F only, 3 credit(s);**  
**Instructor:** McClernon, Susan Elizab  
**Description:** This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. This course will explore how new consumer, industrial, and service products are planned and developed. It will examine idea generation, concept and buyer testing, pricing, sales and profit strategies, product positioning techniques, promotion, packaging and distribution considerations from a new product development perspective, using marketing case histories and student project work.

**Style:** Online  
**Grading:** See attached syllabus

**ABus 4515 Strategy and Management for a Sustainable Future**  
**A-F only, 3 credit(s);**  
**Instructor:** Hickle, Garth Thomas  
**Description:** This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. You work independently, not as part of a student group. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. Explore the meaning and importance of sustainability in business. Characteristics of sustainable environments and their relationship to organizations. Potential economic and strategic enterprise value. Management and leadership to foster and support sustainability. Relationship of sustainable business practices to marketplace trends and realities.

**Style:** Online  
**Grading:** See attached syllabus

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

**Style:** Online  
**Grading:** See attached syllabus

**ABus 4701 Introduction to Marketing**  
**A-F only, 3 credit(s);**  
**Instructor:** Swanson, Katie  
**Description:** This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing
Applied Economics 231 Ruttan Hall

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

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

ApEc 1102H Honors: Principles of Macroeconomics
A-F only, 4 credit(s); [1101 or 1101H or ECON 1101 or ECON 1101H, honors] Credit will not be granted if credit has been received for: APEC 1102;
Instructor: Ritter, Joe
Description:

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

ApEc 3002 Applied Microeconomics: Managerial Economics
4 credit(s);
Instructor: King, Robert P
Description: This course focuses on the application of microeconomic theory to managerial problems. Lectures, readings, problem sets, lab sessions, case studies, and discussions integrate theory and applications. Topics include: an introduction to regression analysis, demand analysis and demand function estimation, cost function estimation, resource allocation decisions, linear programming, market structure, pricing policy, risk analysis, and capital budgeting. This course is the second in a sequence that begins with ApEc 3001, "Consumers, Producers, and Markets". The primary audience for this course is undergraduate students majoring in Agricultural Business Management, Agricultural Industries and Marketing and Applied Economics.
**ApEc 3006 Applied Macroeconomics: Government and the Economy**

3 credit(s);

- [1102 or Econ 1102], [3001 or Econ 3101] or instr consent

_Credit will not be granted if credit has been received for: ECON 3102;

- **Instructor:** Smith, Rodney B

**Description:** This course is concerned mainly with aggregate economic activity and economic growth. Major emphasis is on factors determining national income, employment, interest rates, and the price level. These factors include aggregate consumption, business investment, imports and exports, government spending and taxation, the money market, and the labor market. The impact of savings and technical progress on economic growth is examined using a simple model of economic growth.

- **Style:** 80% Lecture, 20% Laboratory. In class discussion.

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

- **Exam Format:** combination of true/false explain, multiple choice, and short essay

---

**ApEc 3007 Applied Macroeconomics: Policy, Trade, and Development**

3 credit(s);

- Meets CLE req of Global Perspectives

- **Instructor:** Runge, Carlisle Ford

**Description:** This is an undergraduate course in trade and economic development addressed in four main parts. Part I will lay out what we know about international trade and its role in the process of economic development: how trade has grown over recent centuries, the particular role of trade in agriculture, and concerns over globalization and the welfare of developing countries. Part II will consider what economists theorize about international trade—how we know about trade and development. We will consider traditional theories of trade and the roles of comparative advantage, resource endowments, and factor mobility as well as more contemporary aspects involving economies of scale and imperfect competition. Part III of the course will discuss the trade policy instruments and institutions that make trade and development happen: the private financial sector, the International Monetary Fund, World Bank, World Trade Organization, and World Intellectual Property Organization. Part IV will consider how the international movement of capital, technical change, and location affect trade and development.

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

- **Grading:** 30% mid exam, 40% final exam, 30% reports/papers.

- **Exam Format:** Multiple choice, short essay and numerical questions

---

**ApEc 3451 Food and Agricultural Sales**

3 credit(s);

- **Instructor:** Nefstead, Ward Elliot

**Description:** Professional selling of agricultural and food products. Building and refining sales abilities, identifying and qualifying prospects, delivering effective sales presentations and closing the sale, utilizing principles of market research including market segmentation methods. The class will involve explorations of careers in sales via guest speakers and other audiovisual aids. Students will develop and deliver a professional sales presentation.

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

- **Grading:** 15% mid exam, 20% final exam, 50% special projects, 15% laboratory evaluation.

- **Exam Format:** Essay

---

**ApEc 3611W Environmental and Natural Resource Economics**

3 credit(s);

- Meets CLE req of Environment; meets CLE req of Writing Intensive

- **Instructor:** Homans, Frances Reed

**Description:** This is a course on the use of economic tools in the analysis of policies for use and protection of natural resources and the environment. The focus will be on how we can use basic economic models to analyze problems of resource use and the potential effects of public policies, to help sharpen our thinking about how choices are made, by individuals and society, concerning natural resources and the environment. We will look at both environmental economics (which focuses on externalities) and natural resource economics (which looks at resource use over time). You will be asked, during the course, to set up and solve economic models that capture important aspects of the behavior and policies that we will consider throughout the semester. The objectives of this course are (1) to introduce the theory relating to these topic areas and (2) to show with applications how the theory can be used to solve real-world problems. I expect that a student successfully completing this course will understand the basic issues involved with use and protection of natural resources and the environment, and be able to analyze problems that reflect real-life situations encountered in contemporary society.

- **Style:** 45% Lecture, 15% Discussion, 25% Small Group Activities, 10% Student Presentation, 5% Guest Speakers.

- **Grading:** 25% mid exam, 25% final exam, 20% reports/papers, 10% quizzes, 10% journal, 10% class participation.
ApEc 3821 Retail Center Management
3 credit(s);
Instructor: Nefstead, Ward Elliot
Description: Management of garden centers, grocery stores and other retail units selling perishable agricultural products. This course will involve accounting and management aspects of related retail business. Part of the class will focus on e-commerce applications. Group exercises and management cases/simulations will be used as well as assigned projects off campus.
Style: 70% Lecture, 15% Discussion, 15% Laboratory.
Grading: 20% mid exam, 35% final exam, 20% special projects, 10% laboratory evaluation, 15% problem solving.
Exam Format: Multiple choice, essay, short answer

ApEc 3991 Independent Study in Applied Economics
1-4 credit(s), max credits 12, 3 completions allowed;
Instructor: STAFF
Description: Independent study and supervised reading and research on subjects and problems not covered in regularly offered courses. Coursework varies by instructor. No exams usually given.

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

3 credit(s);
Instructor: Gartner, Bill
Description: Growth in tourism has led, in the last thirty-five years, to development consequences that are not always planned for, or welcome. This course begins by discussing a very popular concept, sustainable tourism development, and proposes a measurement model that takes it from the conceptual to application stage. The historical evolution of what is being called the tourism industry is examined, and the economic, environmental and socio-cultural impacts, both positive and negative, of tourism development are discussed in detail. Government policies and organizations that influence tourism development are examined, models used to plan for development are discussed and the tools needed for successful development are reviewed. Target audience for this course is centered on the upper level undergraduate and graduate student pool. The instructor will offer many real world examples from his international work including a case study assignment dealing with a National Park development plan in Zambia.
Style: 70% Lecture, 30% Discussion.
Grading: 30% mid exam, 30% final exam, 30% reports/papers, 10% class participation.
Exam Format: Essay

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

ApEc 4501 Financial Modeling
A-F only, 3 credit(s);
Instructor: Pederson, Glenn Darwin
Description: The objective of the course is to give students experience in designing and implementing solutions to financial and management problems with the use of the advanced features of the Microsoft Excel spreadsheet software and its VBA programming language. The course will emphasize the development of computer-based tools, rather than the use of existing tools or templates. In this way students will gain valuable practical experience in how to interpret and implement concepts and theories that are found in the fields of economics, finance and management. This is a full-semester, 3-credit course that incorporates a combination of short introductory lectures, cases, and computer labs. The course will meet twice per week in the computer lab.
Style: 10% Lecture, 90% Laboratory.
Grading: 10% in-class presentation, 90% laboratory evaluation.

ApEc 4821W Business Economics and Strategy
3 credit(s); Meets CLE req of Writing Intensive
Instructor: Boland, Michael Aloysius
Description: The textbook is International Agribusiness Strategy: A Book in Honor of Professor Ray Goldberg
authored by myself and Ernesto Gallo which you will receive for no charge. Course Objectives and Student Learning Outcomes: This course integrates economic, management, and accounting principles. Emphasis is placed on the knowledge, critical thinking, communication, and life skills learning outcomes. This course makes great use of active student learning techniques. Specific Learner Outcomes: At the end of the semester, students will be able to: A. Complete an industry analysis using Porter’s Five Forces Model; B. Complete a firm analysis; C. Use economic concepts to explain strategic relationships among accounting concepts; D. Use the case study approach to explain strategic management concepts; and E. Help teach you skills in time management and group activities. All of these concepts are applied to firms and industries in the food economy. We will look at case studies on Blue Diamond Almond Growers, Sunkist, Mountain States Lamb, Coors, Cargill, CHS, Kroger, Dole Foods, and their firms. 

**Style:** 10% Lecture, 50% Discussion, 35% Small Group Activities, 5% Student Presentation.

**Grading:** Final presentation is 20%, exams are 40%, in class group work is 20%, and quizzes / homework are 20%. These are approximations as of 3-November 2010

**Exam Format:** you will be given all the questions in advance orally. It is a take home exam done in class on a case study. The questions are generally the same for each exam.

---

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

- **3 credit(s);**
- **Instructor:** Davis, Elizabeth E
- **Description:** This course explores statistical and econometric methods for the analysis of large data sets to support managerial and policy decisions. Topics include: Methods for organizing, accessing, and ensuring the quality of data; Estimation techniques including panel data methods, limited dependent variable models, and time series analysis; Clarity of reporting and design of procedures for maintaining and updating data and estimates. Focus is on SAS programming. The intended audience is graduate students who have taken a masters level course in econometrics. Prerequisites: ApEc 5031 or instructor consent.
- **Style:** 50% Lecture, 40% Laboratory, 5% Student Presentation, 5% Guest Speakers.

---

**ApEc 5152 Applied Macroeconomics: Income and Employment**

- **3 credit(s);**
- **Instructor:** Roe, Terry Lee
- **Description:** The course begins with a review of the fundamentals of micro economics of the consumer and firm. These fundamentals are used to develop, explain and apply a static general equilibrium trade model of an economy. Selected economy wide policies are discussed such as the basics of financial crises. The next section introduces the Solow model and growth accounting. The last section draws upon the static and the Solow model and growth accounting to develop a multi-sector growth model. This framework is used to explain savings, sources of growth, change in economy structure, and long-run equilibrium concepts.
- **Style:** 80% Lecture, 20% Discussion.
- **Grading:** 45% mid exam, 45% final exam, 10% problem solving.
- **Exam Format:** Essay

---

**ApEc 5321 Regional Economic Analysis**

- **3 credit(s);**
- **Instructor:** Mykerezi, Elton
- **Description:**
- **Style:** 70% Lecture, 25% Discussion, 5% Student Presentation.
- **Grading:** 25% mid exam, 35% final exam, 30% reports/papers, 10% in-class presentation.
- **Exam Format:** I prepare between 10 and 15 essay-type questions. These questions are provided to the students one week before the exam. For the in class exam 3 are selected randomly.

---

**ApEc 5481 Futures and Options Markets**

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

---

**ApEc 5651 Economics of Natural Resource and Environmental Policy**

- **3 credit(s);** [[3001 or ECON 3101], [3611 or ECON 3611 or ESPM 3261]] or instr consent Credit will not be granted if credit has been received for: PA 5722;
- **Instructor:** Bielicki, Jeffrey
- **Description:** Student may contact the instructor or department for information.

---

**ApEc 5721 Economics of Science and Technology Policy**

- **3 credit(s);**
- **Instructor:** Smith, Pamela Jane
ApEc 5731 Economic Growth and International Development
3 credit(s);
Instructor: Smith, Rodney B
Description: Student may contact the instructor or department for information.

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

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

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

ApEc 8003 Applied Microeconomic Analysis of Game Theory and Information
A-F only, 2 credit(s);
Instructor: Polasky, Stephen
Description: Student may contact the instructor or department for information.

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

3 credit(s);
Instructor: Runge, Carlisle Ford
Description: Student may contact the instructor or department for information.

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

**ApEc 8212 Econometric Analysis II**
4 credit(s);
Instructor: Mc Cullough, Gerard John
Description: Student may contact the instructor or department for information.

**ApEc 8602 Economics of the Environment**
3 credit(s);
Instructor: Coggins, Jay Steven
Description: Student may contact the instructor or department for information.

**ApEc 8902 Graduate Research Development Seminar**
S-N only, 1 credit(s);
Instructor: King, Robert P
Description: Student may contact the instructor or department for information.

**ApEc 8991 Advanced Topics in Applied Economics**
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Davis, Elizabeth E
Description: Student may contact the instructor or department for information.

**Applied Plant Sciences**

411 Borlaug Hall

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

20 Ruttan Hall

**Applied Professional Studies**

**APS 5201 Career and Job Search Preparation for Graduate Students**
S-N only, 1 credit(s);
Instructor: Okstad, Brian Clay
Description: This class is ideal for graduate students, from any area of study, interested in non-academic careers. Preparation is the focus of this class; though it will be useful to any graduate student, it will be most valuable if taken before students' last semester. Career and Job Search Preparation for Graduate Students will help you identify your top skills/strengths and learn how to market these qualities through cover letters, resumes, curriculum vitae (CV) and job interviews. Through this course you will also learn how to research employers to determine their fit for your unique skills and personality. You will also learn how to network effectively in your industry to identify job openings and to negotiate once you have received a job offer. Note: Course meets 11 times over 15 weeks.

**APS 8001 Introduction to Research in the Biological Sciences**
S-N only, 1 credit(s);
Instructor: Schottel, Janet L
Description: Student may contact the instructor or department for information.
### APS 8002 Final Project Course for Plan B MBS Students
- **S-N only, 2 credit(s);**
- **Instructor:** Schottel, Janet L
- **Description:** Student may contact the instructor or department for information.

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

### Arabic 220 Folwell Hall

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

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

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

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

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

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

**Arab 3102 Intermediate Arabic**

5 credit(s); 3101 or instr consent

**Credit will not be granted if credit has been received for:** ARAB 4122;

**Instructor:** Mohammed, Sidow Abdishariff

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

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

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

**Arab 3102 Intermediate Arabic**

5 credit(s); 3101 or instr consent

**Credit will not be granted if credit has been received for:** ARAB 4122;

**Instructor:** Elmeski, Mohammed

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

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

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

**Arab 3290 Arabic Language Teaching Tutorial**

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

**Instructor:** Khalek, Hisham A

**Description:** The class trains advanced level students who have received an "A" in Intermediate Arabic 3102, or who are native speakers of Arabic to tutor students of Arabic as a second language. Tutors will also lead weekly conversational sessions.

**Arab 4102 Beginning Arabic II**

3 credit(s); [4101 or equiv], grad student

**Credit will not be granted if credit has been received for:** ARAB 1102;

**Instructor:** Khalek, Hisham A

**Description:** Description: Beginning 1102 is the second in a sequence of Arabic courses designed to teach reading, writing, listening and speaking formal Arabic, also known as Modern Standard Arabic (MSA). The class continues to build upon and reinforce what was learned in 1101 with strong emphasis on learning basic communicative interactions. The course presents theme based topics aimed at delivering practical and functional material. The course also introduces students to the cultures of the Arabic-speaking people. The target audience includes undergraduate as well as graduate students. The text used is: Marhaba by Hisham Khalek.

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

**Grading:** 20% mid exam, 25% final exam, 15% quizzes, 15% written homework, 10% class participation, 15% laboratory evaluation. 20% homework.

**Exam Format:** Multiple choice and fill in the blank.

**Arab 4102 Beginning Arabic II**

3 credit(s); [4101 or equiv], grad student

**Credit will not be granted if credit has been received for:** ARAB 1102;

**Instructor:** Ben Zahra, Saloua
Description: Beginning 1102 is the second in a sequence of Arabic courses designed to teach reading, writing, listening and speaking formal Arabic, also known as Modern Standard Arabic (MSA). The class continues to build upon and reinforce what was learned in 1101 with strong emphasis on learning basic communicative interactions. The course presents theme based topics aimed at delivering practical and functional material. The course also introduces students to the cultures of the Arabic-speaking people. The target audience includes undergraduate as well as graduate students. The text used is: Marhaba by Hisham Khalek.

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

Grading: 20% mid exam, 25% final exam, 15% quizzes, 15% written homework, 10% class participation, 15% laboratory evaluation. 20% homework.

Exam Format: Multiple choice and fill in the blank.

Arab 4102 Beginning Arabic II
3 credit(s): [4101 or equiv], grad student
Credit will not be granted if credit has been received for: ARAB 1102;
Instructor: Elmeski, Mohammed
Description: Beginning 1102 is the second in a sequence of Arabic courses designed to teach reading, writing, listening and speaking formal Arabic, also known as Modern Standard Arabic (MSA). The class continues to build upon and reinforce what was learned in 1101 with strong emphasis on learning basic communicative interactions. The course presents theme based topics aimed at delivering practical and functional material. The course also introduces students to the cultures of the Arabic-speaking people. The target audience includes undergraduate as well as graduate students. The text used is: Marhaba by Hisham Khalek.

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

Grading: 20% mid exam, 25% final exam, 15% quizzes, 15% written homework, 10% class participation, 15% laboratory evaluation. 20% homework.

Exam Format: Multiple choice and fill in the blank.

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

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

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

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

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

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

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

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

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

**Arab 5102 Advanced Arabic II**
- 3 credit(s), max credits 4, 1 completion allowed;
- **Instructor:** Khalek,Hisham A
- **Description:** Arabic 5102 is a continuation of 5101 and the second in a two-course series. The course is designed to reinforce and capitalize on the beginning and intermediate levels to advance language proficiency in formal Arabic. In speaking, the course trains students to understand and use complex and compound sentences. In reading, the course trains students to apply to some extent dialectical marks when reading from scholarly textbooks and journals. Writing skills are enhanced through the writing of weekly journals, homework assignments, and translations. Listening exercises and drills are utilized in class as well as in the language lab by listening and watching audio and video materials. Students are also expected to deliver a weekly oral news journal. The target audience includes both undergraduate and graduate students.
- **Style:** 20% Lecture, 40% Discussion, 10% Laboratory, 20% Small Group Activities.
- **Grading:** 10% mid exam, 15% final exam, 20% reports/papers, 20% quizzes, 15% written homework, 10% in-class presentation, 10% laboratory evaluation.
- **Exam Format:** Content-based inference. Writing

**Architecture  110 Rapson Hall**

**Arch 1281 Design Fundamentals I**
- A-F only, 4 credit(s);
- **Instructor:** Swackhamer,Marc T
- **Description:** Student may contact the instructor or department for information.

**Arch 2281 Design Fundamentals II**
- A-F only, 4 credit(s);
- **Instructor:** Jarvi,Adam Thomas
- **Description:** Student may contact the instructor or department for information.

**Arch 3250 Design Workshop: Creating a Culture of Innovation: Env & Learning**
- A-F only, 2 credit(s), max credits 18, 9 completions allowed;
- **Instructor:** Patzke,Judith Ann
- **Description:** Student may contact the instructor or department for information.

**Arch 3250 Design Workshop: Material Limits: Wood / Metal in Arch Design**
- A-F only, 4 credit(s), max credits 18, 9 completions allowed;
- **Instructor:** Westbrook,Thomas Robert
- **Description:** Student may contact the instructor or department for information.

**Arch 3250 Design Workshop: Masonry Design & Construction**
- A-F only, 3 credit(s), max credits 18, 9 completions allowed;
- **Instructor:** Mensing,David Bryon
- **Description:** Student may contact the instructor or department for information.

**Arch 3250 Design Workshop: Space, Light, Material and Mies**
- A-F only, 2 credit(s), max credits 18, 9 completions allowed;
- **Instructor:** Dwyer,John G
- **Description:** Student may contact the instructor or department for information.

**Arch 3250 Design Workshop: Facade: Silhouette, Skin & Aperture**
- A-F only, 2 credit(s), max credits 18, 9 completions allowed;
- **Instructor:** Cayere-King,Laura C
- **Description:** Student may contact the instructor or department for information.
Arch 3250 Design Workshop: Cinematic Constructions
A-F only, 2 credit(s), max credits 18, 9 completions allowed;
Instructor: Madson, Nat P
Description: Student may contact the instructor or department for information.

Arch 3250 Design Workshop: Exploring Uncertainty: Design / Public Interest
A-F only, 3 credit(s), max credits 18, 9 completions allowed;
Instructor: Wheeler, James Anthony
Description: Student may contact the instructor or department for information.

Arch 3250 Design Workshop: The Use(r) of Everyday Things Matters
A-F only, 2 credit(s), max credits 18, 9 completions allowed;
Instructor: Montague, Jeffrey
Description: Student may contact the instructor or department for information.

Arch 3250 Design Workshop: luxury / utility / value
A-F only, 3 credit(s), max credits 18, 9 completions allowed;
Instructor: Lazor, Charles Lawrence
Description: Student may contact the instructor or department for information.

Arch 3250 Design Workshop: Modular Variations: Computational Approaches
A-F only, 4 credit(s), max credits 18, 9 completions allowed;
Instructor: Marcus, Adam C.
Description: Student may contact the instructor or department for information.

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

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

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

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

Arch 3412H Honors: Architectural History Since 1750
A-F only, 3 credit(s); Meets CLE req of Global Perspectives; meets CLE req of Historical Perspectives
Instructor: Solomonson, Katherine Mary
Description: History of Architecture of Since 1750 investigates buildings, landscapes, and cities during three centuries of dynamic change. Central to the course are questions concerning the interplay between the built environment, architectural theory, and shifting cultural, social, political, and economic conditions. Although the course focuses on