ABRD 900   Study Abroad Program  Mim Cr. 1-Max Cr. 12
Course placeholder for students going abroad. Students do not register for this class.

ACCT 231   Principles of Accounting I  Mim Cr. 3-Max Cr. 3
Introduction to financial accounting as an information system, double-entry, business income, accounting cycle, assets, liabilities, capital, and retained earnings. Prerequisite: second semester freshman standing. Technological prerequisite: Basic knowledge of Windows operating systems and the Microsoft Office suite. (F, Sp, SS)

ACCT 232   Principles of Accounting II  Mim Cr. 3-Max Cr. 3
Introduction to the information needs of internal management for decision making; use and interpretation of accounting data in the planning and controlling of business activities, cost accounting, variance and statement analysis, and statement of cash flows. Prerequisite: ACCT 231. Technological prerequisite: Basic knowledge of Windows operating systems and the Microsoft Office suite. /n(F, Sp, SS)

ACCT 279   Internship  Mim Cr. 1-Max Cr. 3
Professional work experience in the accounting field. Prerequisites: ACCT 231 and 232; good academic standing, approval from the internship advisor and the department chair. Credits count as general electives. Pass/Fail only. (F, Sp, SS)

ACCT 321   Intermediate Accounting I  Mim Cr. 3-Max Cr. 3
This course is designed to provide an in-depth study of current financial accounting theory and concepts. Generally accepted accounting principles applicable to business income measurement, the related asset and equity valuations, and reporting and disclosure requirements are developed in the context of present day accounting practice. Prerequisite: ACCT 232. Technological prerequisite: Basic knowledge of Windows operating systems and the Microsoft Office suite. (F)

ACCT 356   Managerial Cost Accounting  Mim Cr. 3-Max Cr. 3
Concepts and techniques of reporting to internal users of financial information will be emphasized along with planning and control, product costing and special decisions. Prerequisite: ACCT 232. Technological prerequisite: Basic knowledge of Windows operating systems and the Microsoft Office suite. (F)

ACCT 360   Federal Income Tax I  Mim Cr. 3-Max Cr. 3
Students will study the principles of federal income taxation with emphasis on individuals. Gross income, exclusions, deductions, exemptions, capital gains and property transactions are covered. Problems and legal research included. Prerequisite: ACCT 231. Technological prerequisite: Basic knowledge of Windows operating systems and the Microsoft Office suite. (F)

ACCT 379   Internship  Mim Cr. 3-Max Cr. 12
Professional level work experience in accounting. The internship involves approximately three months working as a full-time employee in the accounting field. A maximum of 3 internship credits can apply toward electives in the major. Pass/fail basis. Prerequisites: Grades of C or better in ACCT 321 and 356, and the consent of department chair and the CBE internship coordinator. (F, Sp, SS)

ACCT 430   Advanced Accounting  Mim Cr. 3-Max Cr. 3
Theory and practice of financial accounting pertaining to business combinations and corporate consolidations using the cost and equity methods, partnerships, multinational enterprises, segment and interim reports, and not for profit accounting. Prerequisites: ACCT 322. Technological prerequisite: Basic knowledge of Windows operating systems and the Microsoft Office suite. (F)
ACCT 461  Auditing     Mim Cr. 3-Max Cr. 3
Auditing is the writing intensive course for Accounting majors. Philosophy and techniques of auditing, including tests of controls, substantive testing, and audit report writing will be emphasized. Prerequisites: Grades of C or better in ACCT 322 and ACCT 366. (F)

ACCT 499  Independent Study     Mim Cr. 1-Max Cr. 3
Independent study is an opportunity for upper class students to select a project in an area of business and work independently with an assigned professor. Open only to accounting. Prerequisites: at least a 2.5 GPA in accounting and business law courses, upper class standing and consent of department chair. Technological prerequisite: Basic knowledge of Windows operating systems and the Microsoft Office suite. (F, Sp, SS)

ACCT 734  Managerial Accounting     Mim Cr. 3-Max Cr. 3
Managerial Accounting uses a case-based broad-stakeholder approach to familiarize students with decision-making using financial statement analysis, cost-volume-profit analysis, cost behavior, activity-based management, tactical decision-making, relevant costs, the balanced scorecard, budgeting, ethics, and triple-bottom-line sustainability. Prerequisite: Admission to the MBA program. (F or Sp)

AFES 310  Ag HRM     Mim Cr. 3-Max Cr. 3
This course focuses on human resource management in the context of farms, greenhouses, landscapers, and other small agricultural businesses. The course will have seven sections: Developing a Vision, Designing Jobs, Handling External Factors, Hiring, Starting New Employees, Keeping Employees, and Managing a Multicultural Workforce. Prerequisite: At least Junior Standing. (F, Sp)

AFES 492  Experiential Learning     Mim Cr. 3-Max Cr. 3
Student teams, with members from at least two academic disciplines, will collaborate with faculty mentors and a farm, agribusiness, or public agency to develop a solution to a problem. The multi-disciplinary student teams will analyze the consider alternative solutions, negotiate recommendations, and present their solutions and recommendations to the farmer or business person who owns the problem. Prerequisites: senior standing or consent of instructor.

AGBI 251  Agric Biochemistry     Mim Cr. 3-Max Cr. 3
The course is an introduction to agricultural biochemistry. Emphasis is on chemical compounds pertaining to agricultural and biological processes. Prerequisites: CHEM 230 or 231. (F, Sp)

AGBI 252  Agric Biochemistry Lab     Mim Cr. 1-Max Cr. 1
The course is an introduction to biochemistry laboratory techniques. The laboratory will include both plant and animal topics. Prerequisites: AGBI 251 or CHEM 361. (F, Sp)

AGEC 101  Econ & Management in Ag     Mim Cr. 3-Max Cr. 3
Econ & Management in Ag will provide students with an overview of the structure of the food and fiber sector (including the development of value chains and global agricultural markets), discuss the role of management in agribusiness managers address key economic and management issues. Students will visit several firms within a typical agricultural supply chain during the semester. (F)

AGEC 230  Agricultural Economics I     Mim Cr. 3-Max Cr. 3
An examination of the economic theory of the firm as applied to agriculture. An introductory analytical approach to efficient resource use primarily directed at production functions, factor-factor choices, product-product choices, cost functions, supply and demand functions, and static and dynamic market behavior. Prerequisite: MATH 146 or higher. (F, Sp, SS)
AGEC 250  World Food & Populations(g)  Mim Cr. 3-Max Cr. 3
A survey course of trends and determinants of population growth trends and food production as
influenced by environmental, institutional and cultural factors. International efforts in agricultural
development and trade, and government policies to address food and population issues will be
discussed. (Sp)

AGEC 270  Internship I  Mim Cr. 2-Max Cr. 4
Students obtain professional work experience with a cooperating employer. Individualized
learning objectives are established for each participant. The completion of a special project at the
internship site is an integral part of the experience. Prerequisite: 30 sem. cr. and consent of
faculty coordinator. (F, SP, SS)

AGEC 305  Agric Business Accounting  Mim Cr. 3-Max Cr. 3
A study of accounting systems and methods appropriate for farms and agricultural businesses
including the use of basic information-recording skills to allow for the construction of financial
statements and filing of income tax forms. Prerequisites: AGEC 230 (F, Sp)

AGEC 320  Statistical Methods  Mim Cr. 3-Max Cr. 3
Introduction to statistical methods commonly used in agricultural business. Topics include data
presentation, measures of central tendency and dispersion, probability, estimation, hypothesis
testing, index numbers, analysis of variance and regression. Prerequisites: MATH 146, AGEC
230. (F)

AGEC 345  Agricultural Law  Mim Cr. 3-Max Cr. 3
A survey course that includes the sources of laws affecting agricultural businesses and markets;
the creation and enforcement of contracts; provisions controlling inheritance, trespass, and other
specific laws of particular interest to agriculture. (F, W)

AGEC 355  Agric Markets & Prices  Mim Cr. 3-Max Cr. 3
This is a writing intensive course. The course is divided between a survey of market practices and
policies and analytical methods of price analysis. Prerequisite: AGEC 230. (F, Sp)

AGEC 360  Farm Management  Mim Cr. 3-Max Cr. 3
An introduction to farm management with emphasis on analytical methods associated with the
economics of farm planning. Topics include balance sheets, income statements, cash flows,
budgets, and present value analysis and the application of firm theory. Prerequisite: AGEC 230;
(F, Sp)

AGEC 361  Horticultural Business Mngt  Mim Cr. 3-Max Cr. 3
An introduction to horticultural business management with emphasis on analytical methods
associated with the economics of horticultural business planning. Topics include balance sheets,
income statements, cash flows, present values analysis and the application of firm theory in a
decision-making environment. Prerequisites: AGEC 230. ( Spring of even-numbered years)

AGEC 365  Agricultural Finance  Mim Cr. 3-Max Cr. 3
The course is divided between the survey of financial institutions and analytical methods useful in
financial planning and evaluation. Topics include financial analysis of balance sheets; income
statements; cash flow; financial budgeting, including present value methods; risk models; and
agricultural lending Institutions. Prerequisite: AGEC 230. (F, Sp)

AGEC 370  Internship II  Mim Cr. 2-Max Cr. 4
Students obtain professional work experience with a cooperating employer. Individualized
learning objectives are established for each participant. The completion of a special project at the
internship site is an integral part of the experience. Prerequisite: Ag 270 and consent of faculty
coordinator. (F, Sp, SS)
**AGEC 410  Professional Selling  Mim Cr. 3-Max Cr. 3**  
Professional Selling is a course designed for seniors considering a career where professional selling skills will be necessary. The course uses a needs-based approach to selling that recognizes both the technical competence and the human relations components of professional selling. Prerequisite: senior standing or permission of the instructor. (F, Sp)

**AGEC 440  Agricultural Policy I  Mim Cr. 3-Max Cr. 3**  
This is a writing intensive course. Economic analysis of adopted and proposed government policies regarding agriculture are covered, including consideration of the significance of the institutional environment on agricultural policy. Prerequisite: AGEC 230. (F)

**AGEC 445  Land Use & Sustain Ag Law  Mim Cr. 3-Max Cr. 3**  
This course prepares students to understand and apply knowledge of: governmental institutions that create laws; property law principles; the current legal trends in public vs. private property rights; and, legal research and analysis so that students can conduct and apply their own research/analysis pertaining to land use planning and to sustainable agriculture. Prerequisites: AGEC 230 or ESM 303 or consent of instructor. (Fall of odd-numbered years)

**AGEC 450  Intro to Natural Res Econ  Mim Cr. 3-Max Cr. 3**  
This is a survey course emphasizing reasons for natural resource misallocation including property rights and common property resources, externalities, and public good problems. Consideration is given to the equity and efficiency implications of public policies to direct the use of energy resources, minerals, water, forests, and fisheries. Considerable emphasis is placed on the economics of pollution control. Prerequisite: AGEC 230 or ECON 201. Co-listed as AGEC 450. (F)

**AGEC 489**  
ST: Agricultural Economics  Mim Cr. 0.5-Max Cr. 3

**AGEC 495**  
Spec Prob: Agricultural Econ  Mim Cr. 1-Max Cr. 3

**AGEC 589**  
ST: Agricultural Economics  Mim Cr. 0.5-Max Cr. 3

**AGEC 640  Agricultural Policy I  Mim Cr. 3-Max Cr. 3**  
This is a writing intensive course. Economic analysis of adopted and proposed government policies regarding agriculture are covered, including consideration of the significance of the institutional environment on agricultural policy. Prerequisite: AGEC 230. (F)

**AGEC 650  Intro to Natural Res Econ  Mim Cr. 3-Max Cr. 3**  
A survey course emphasizing reasons for natural resource misallocation including property rights and common property resources, externalities, and public good problems. Consideration is given to the equity and efficiency implications of public policies to direct the use of energy resources, minerals, water, forests and fisheries. Considerable emphasis is placed on the economics of pollution control. Prerequisite: AGEC 230 or ECON 252. (F)

**AGEC 798**  
Independent Research  Mim Cr. 1-Max Cr. 3

**AGED 120  Orientation to Ag & Ext Educ  Mim Cr. 1-Max Cr. 1**  
This course will provide an overview of agricultural education career pathways including goals and purposes, and will examine agricultural education in secondary, post-secondary, and non-school settings. Topics will include extension, government, international and industry organizations, introduction to certification requirements, professional development, and current issues.

**AGED 170  Ldrshp Dev Internship  Mim Cr. 2-Max Cr. 4**  
With assistance from a faculty coordinator and State FFA Staff, students participate in a leadership development, training and education experience for the State FFA Association.
Individualized learning objectives are established for each student. Completion of a special project and portfolio at the internship site is an integral part of each experience. If repeated, an additional project will be expected for the second semester. Prerequisite: a minimum of 25 hours/week over 16 weeks to be directly engaged in Internship related activities for the 4 cr internship (100 hours/credit). (F, Sp)

AGED 201       Prog Del: Ag, Ext, &Ldr Mim Cr. 2-Max Cr. 2
This course introduces the formal and non-formal methods used to deliver education and training in agricultural, extension, and leadership education programs. Post secondary and international level programs will be emphasized. A technology supported lab component provides skills needed to develop teaching and training materials. Prerequisite: AGED 110 or 120. (F, SP)

AGED 202       Leadership & Group Dynamics Mim Cr. 3-Max Cr. 3
Principles of leadership applied to contemporary situations will be discussed. Considerable emphasis will be placed on leadership techniques, especially the proper use of parliamentary procedure. (F, Sp)

AGED 270       Internship I Mim Cr. 2-Max Cr. 4
With assistance from a faculty coordinator, students participate in a professional-level work experience with a cooperating employer. Individualized learning objectives are established for each student. Completion of a special project at the internship site is an integral part of each work experience. (F, Sp, SS)

AGED 289       ST: Agricultural Education Mim Cr. 0.5-Max Cr. 3

AGED 369       Foundations of CTE Mim Cr. 3-Max Cr. 3
The purpose of this course is to develop an understanding of the philosophical and practical basis of career and technical education programs. The course involves an exploration of the position career and technical education programs should occupy in public education (secondary and post-secondary), and involves a study of the historical, legislative, social and economic aspects of career and technical education in relation to the public education system. Junior Standing. (Sp)

AGED 370       Internship II Mim Cr. 2-Max Cr. 4
A second faculty-supervised professional work experience with individualized learning objectives. Prerequisites: AGED 270, consent of faculty coordinator and the internship director. (F, Sp, SS)

AGED 489       ST: Agricultural Education Mim Cr. 2-Max Cr. 2

AGED 489       ST: Agricultural Education Mim Cr. 1-Max Cr. 1

AGED 490       Special Problems Mim Cr. 1-Max Cr. 3
Independent and group study of problems in the field of Agricultural Education will be emphasized. Prerequisite: consent of instructor. (F, Sp, SS)

AGED 671       Service Learning Mim Cr. 1-Max Cr. 2
Students will complete a community service project that integrates community service with their academic instruction, personal, and professional goals. Students collaborate with community partners to plan and implement the project. Prerequisites: Consent of instructor. (F, Sp, SS)

AGED 689       ST: Agricultural Education Mim Cr. 0.5-Max Cr. 3

AGED 695       Independent Study Mim Cr. 0.5-Max Cr. 3
Students will intensively study a topic under the supervision of a faculty mentor. Prerequisites: Consent of instructor. (F, Sp, SS)

AGED 701       Adv Leadership Devlpmt Mim Cr. 2-Max Cr. 2
This course would be both on-campus and off-campus. Principles of leadership and executive skills will be discussed as they apply to contemporary situations. Special emphasis will be placed on organizing and conducting meetings to include the proper use of parliamentary procedure.

AGED 770  Advanced Agriculture Intern  Mim Cr. 3-Max Cr. 3
An off-campus occupational work experience for the student. Involves full-time employment with a cooperating agency or firm. Prerequisite: consent of director and faculty coordinator.

AGED 771  Adv Service Learning  Mim Cr. 1-Max Cr. 2
Students will complete an advanced community service project that integrates community service with their academic instruction, personal, and professional goals. Students collaborate with community partners to plan and implement the project. This project will build on the concepts and experiences developed in AGED 671. Prerequisites: AGED 671 and consent of instructor. (F, Sp, SS)

AGED 777  Capstone Experience  Mim Cr. 1-Max Cr. 4
This course functions as the culminating experience for students selecting Plan C. Students are expected to plan, implement and evaluate a professional level project of their own design that integrates the values, knowledge, skills and best management practices developed through the curriculum. Students are strongly encouraged to collaborate with community partners in all aspects of designing and facilitating the project. Prerequisites: Consent of instructor. (F, Sp, SS)

AGED 781  Research Sem - Agric Educ  Mim Cr. 1-Max Cr. 1
Problems and issues of research in Agricultural Education. Procedures and practices in definition of problems, review of literature, project planning, conducting a study and the reporting of findings.

AGED 782  Research Sem - Agric Educ  Mim Cr. 1-Max Cr. 1
Problems and issues of research in Agricultural Education. Procedures and practices in definition of problems, review of literature, project planning, conducting a study and the reporting of findings. Prerequisite: AGED 781.

AGED 783  Research Sem - Agric Educ  Mim Cr. 1-Max Cr. 1
Problems and issues of research in Agricultural Education. Procedures and practices in definition of problems, review of literature, project planning, conducting a study and the reporting of findings. Prerequisite: AGED 781 and 782.

AGED 789  ST: Agricultural Educ  Mim Cr. 0.5-Max Cr. 3
Special topics for specific areas in agricultural education. Designed for experienced agricultural education instructors. (SS)

AGED 798  Independent Research  Mim Cr. 1-Max Cr. 4
Independent research problem for specific area of agricultural education. Prerequisite: consent of instructor.

AGED 799  Thesis  Mim Cr. 1-Max Cr. 6
Prerequisite: AGED 781, 782, 783. (F, Sp, SS)

AGEN 150  Intro to Agric Engineering  Mim Cr. 3-Max Cr. 3
A study of engineering concepts and principles as they apply to bio-systems engineering. Major emphasis will be placed on the technical areas of food and process engineering, information and electrical technologies, power and machinery, soil and water, and structures and environment. The laboratory will provide an opportunity for the student to develop skills in the areas of problem solving and the collection and analysis of data. (F, Sp)
AGEN 240 Structures  Mim Cr. 3-Max Cr. 3
A study of construction processes for agricultural, commercial/industrial, and residential structures. Topics include building codes, materials of construction, structural design of wood members, and load analysis. Prerequisites: AGEN 150, MATH 146. (F)

AGEN 255 Welding & Metal Manufacturing  Mim Cr. 3-Max Cr. 3
Fundamental concepts of welding and metal machines and forming processes. Set up of common welding and cutting processes. Metallurgical effects of welding on metals and tests for welds. Basic machine tool and metal forming processes. Set up and operation of numerically controlled machine tools. (Sp)

AGEN 270 Internship I  Mim Cr. 2-Max Cr. 4
Students obtain professional work experience with a cooperating employer. Individualized learning objectives are established for each participant. The completion of a special project at the internship site is an integral part of the experience. Prerequisites: 30 sem. cr. and consent of faculty coordinator. (F, Sp, SS)

AGEN 285 AET Professional Seminar II  Mim Cr. 1-Max Cr. 1
This course is a technical seminar in Engineering Technology with an emphasis toward Biosystems and Environmental Engineering. It includes engineering internships and careers, ethics, design analysis, elements of engineering communication and reporting. Prerequisite: AGEN 185 or consent of instructor. (F)

AGEN 350 Applied Electricity  Mim Cr. 3-Max Cr. 3
Students will study electrical fundamentals designed to promote sound application and use of this energy source. Circuits, controls, materials, regulations and applications are considered both in theory and application. (F)

AGEN 352 Food & Process Engineering  Mim Cr. 3-Max Cr. 3
Engineering concepts applied to food processing will be explored. Conversion of physical dimensions, mass balance, heat transfer, mass transfer, and process control technology. Co-listed as FDSC 352. Prerequisites: PHYS 151 and FDSC 112 or AGEN 150. (F)

AGEN 361 Machinery & Power Mechanics  Mim Cr. 3-Max Cr. 3
Basic principles and mechanisms of power transmission and farm machinery will be covered. Hydraulic principles and application are included. Prerequisite: AGEN 150. (F)

AGEN 363 Precision Agriculture Tech  Mim Cr. 3-Max Cr. 3
The course presents the concepts of precision agriculture and the applications of these technologies to production agriculture. Major topics include: electronic sensors and controllers, variable rate technology, global positioning systems, geographic information systems, yield mapping, and interpretation of data collected with these systems. Prerequisite: CROP 161, SOIL 210, AGEN 150. Necessary computer skills: familiarity with spreadsheets and word processing software. (F)

AGEN 365 Waste Management Systems  Mim Cr. 3-Max Cr. 3
This is a writing intensive course. Fundamentals of managing agricultural wastes including livestock manure, crop residues, and processing wastes. The physical chemical and biological characteristics of wastes required for the design of waste management systems will be reviewed. The principles of design and selection of waste management processes and equipment will be studied. Prerequisite: CHEM 121 or equivalent. (F)

AGEN 370 Internship II  Mim Cr. 2-Max Cr. 4
Students obtain professional work experience with a cooperating employer. Individualized learning objectives are established for each participant. The completion of a special project at the
The internship site is an integral part of the experience. Prerequisite: AGEN 270 and consent of faculty coordinator. (F, Sp, SS)

AGEN 389 Agric Engineering Technology Mim Cr. 0.5-Max Cr. 3

AGEN 485 AET Professional Seminar IV Mim Cr. 1-Max Cr. 1
This course is a technical seminar and design course in Engineering Technology with an emphasis toward Biosystems and Environmental Engineering. Importance of continued contribution to the profession after graduation and professional licensure is explored. It also includes a design project posed by industry professionals. The project requires application of engineering design process, teamwork, leadership, and communication. Prerequisite: AGEN 385 or consent of instructor. (F)

AGEN 495 Special Problems Mim Cr. 1-Max Cr. 3

ANSC 111 Intro to Animal Science Mim Cr. 3-Max Cr. 3
This course includes a study of the application of basic sciences, animal genetics, physiology, nutrition and disease control to livestock production, processing and merchandising. Laboratory manual required. (F, Sp)

ANSC 115 Animal Welfare Mim Cr. 3-Max Cr. 3
This course examines the basic concepts of animal welfare and the ethical issues involving the use of animals in our society. (F, Sp, SS)

ANSC 167 Equine Mngt & Equitation Mim Cr. 2-Max Cr. 2
A study of proper techniques of equitation including riding theory and application, fit and use of equipment and groundwork. Horse management topics will cover identification of correct and incorrect conformation of the horse, diseases, parasites, feeding, breeding, and proper facilities necessary to select, care for and maintain a healthy horse. (F, Sp)

ANSC 168 Equine Equitation & Mngt Lab Mim Cr. 2-Max Cr. 2
Laboratory sessions devoted to the application of the mounted and unmounted theory and techniques presented in ANSC 167. The balanced seat will be emphasized with work on the flat and over fences. Safe, effective management of common problems encountered while caring for sport, recreational, and breeding horses will be in a hands-on environment. Students will be assigned to laboratory sessions based on their previous experience. (F, Sp)

ANSC 211 Livestock & Carcass Eval Mim Cr. 3-Max Cr. 3
This is a study of the basic principles of selection for the major livestock species--beef cattle, swine, and sheep. Topics will include selection of breeding stock and evaluation of market animals and carcasses. Emphasis will be placed on practical selection of breeding stock utilizing visual appraisal and production records with a major focus on improvement of the final meat product. Therefore significant effort will be devoted to grading and pricing of market animals and carcasses and the correlation between the two. Prerequisites: ANSC 111 and sophomore standing. (F)

ANSC 231 Principles of Nutrition Mim Cr. 3-Max Cr. 3
Introduction to principles of nutrition presented on a comparative species basis including characteristics, physiological functions, interrelationships, and deficiency symptoms as they pertain to carbohydrates, fats, proteins, mineral elements, and vitamins. Class Manual fee required. Prerequisite: BIOL 150, ANSC 111 or HORT/CROP 161.

ANSC 232 Applied Feeds & Feeding Mim Cr. 3-Max Cr. 3
Physical and chemical characteristics of feeds, effects of storage and processing methods, quality control, feed additives, feeding standards, ration formulation for farm animals, and reviews of research literature. Prerequisite: ANSC 231. (F, Sp)
ANSC 238  Meat & Meat Products  Mim Cr. 3-Max Cr. 3
An introductory course in Meat Science where students will learn the basic procedures and practices employed for conversion of livestock to final retail product. Particular emphasis will be given to factors influencing final eating quality and product safety. In addition, the scope, size, and current challenges to the meat industry will be discussed. Prerequisites: ANSC 111 or FDSC 110 and CHEM 120 or 121. (Sp)

ANSC 257  Genetics  Mim Cr. 3-Max Cr. 3
A study of the basic principles of Mendelian and population genetics, the biological role of nucleic acids, reviews of the classical literature, and concepts of genetic engineering. Prerequisite: BIOL 150 or ANSC 111 or HORT/CROP 161. (F, Sp)

ANSC 260  Animal Physiology  Mim Cr. 4-Max Cr. 4
Basic anatomy and the integration of body regulatory systems will be studied. Prerequisite: BIOL 150 or ANSC 111, or CROP or HORT 161. (F, Sp)

ANSC 261  Advanced Horsemanship  Mim Cr. 3-Max Cr. 3
Students will perform advanced training of the western performance horse, including reining horse maneuvers. Emphasis is placed on developing softness, suppleness and control of the horse's working parts. Prerequisite: ANSC 168 or consent of instructor. (F, Sp)

ANSC 266  Farrier Training  Mim Cr. 2-Max Cr. 2
This course investigates the art and science of shoeing the horse, including anatomy and diseases of the foot, trimming, making and fitting shoes, and corrective and pathological shoeing. Prerequisite: consent of instructor. Accelerated course. Special laboratory fee required. (Sp)

ANSC 268  Balanced Seat Applications  Mim Cr. 3-Max Cr. 3
Challenges students to understand the theoretical basis and practical application of the classical gymnastic exercises that test the rider's use of the aids and the horse's suppleness and obedience. It includes work on the flat and over fences. Prerequisite: ANSC 167, ANSC 168. (F, Sp)

ANSC 270  Internship I  Mim Cr. 2-Max Cr. 4
An additional off-campus occupational work experience for the student which involves full-time employment with a cooperating agency or firm. Prerequisites: 30 cr. and consent of the faculty coordinator. (F, Sp, SS)

ANSC 271  International Internship  Mim Cr. 4-Max Cr. 4
An international work experience at a professional level. Participants will attend 6-8 scheduled orientation meetings during the semester prior to the work experience. Special course fees required. Prerequisites: 30 semester credits. (F, Sp, SS)

ANSC 289  ST: Animal Science  Mim Cr. 1-Max Cr. 3
Special Topics in Animal Science

ANSC 313  Advanced Equine Evaluation  Mim Cr. 2-Max Cr. 2
Advanced training in equine evaluation techniques. Emphasis is placed on refining student's abilities to objectively evaluate and rank horses in preparation for national judging competitions. Prerequisite: ANSC 213 or consent of instructor.

ANSC 321  Dog and Cat Care and Mgmt  Mim Cr. 3-Max Cr. 3
This course will help students integrate the principles of genetics, nutrition, physiology, and health into a cohesive description of advanced canine and feline management by building on the material covered in ANSC 121. Biological principles will be applied to the care and management of exclusively canines and felines. Prerequisites: ANSC 121, and ANSC 232, and ANSC 257. (F)
ANSC 341  Biometrics  Mim Cr. 3-Max Cr. 3
This course examines the basic concepts of statistics including measures of central tendency, measures of variation, probability distributions, significance testing, correlation, regression, and analysis of variance. Prerequisite: MATH 146. (F, Sp)

ANSC 345  Animal Health  Mim Cr. 2-Max Cr. 2
This course examines the disease process and immune response in animals. Common diseases of domestic livestock are discussed with emphasis on maintaining healthy animals. Prerequisite: ANSC 111, BIOL 150. (F, Sp)

ANSC 346  Principles of Animal Breeding  Mim Cr. 3-Max Cr. 3
This is a writing intensive course. The application of genetic principles to livestock improvement will be examined including elementary population genetics, phenotypic and genotypic effects of selection, selection methods, and systems of mating. Prerequisite: ANSC 257. (F, Sp)

ANSC 365  Poultry Production  Mim Cr. 3-Max Cr. 3
This course examines the selection, breeding, feeding, housing, and general management of poultry and poultry products. Prerequisites: ANSC 232, 257 or consent of instructor. (F, alternate years)

ANSC 367  Beef Production  Mim Cr. 3-Max Cr. 3
The selection, breeding, reproduction, nutrition, and management of beef cattle are covered in this course. Prerequisites: ANSC 232, 257 or consent of instructor. (F)

ANSC 369  Equine Production  Mim Cr. 4-Max Cr. 4
A survey of the light horse industry in the United States, including the various breeds and registries. Current views and facts on equine nutrition, reproduction, genetics, diseases, unsoundness and parasites will be emphasized. Prerequisites: ANSC 232, 257. (F, Sp)

ANSC 370  Internship II  Mim Cr. 2-Max Cr. 4
An additional off-campus occupational work experience for the student which involves full-time employment with a cooperating agency or firm. Prerequisites: ANSC 270 and consent of the faculty coordinator. (F, Sp, SS)

ANSC 378  Semester Abroad  Mim Cr. 6-Max Cr. 6
The research component of the Semester Abroad program. A semester of directed research in a European country. Taken in conjunction with International Studies 377/577. Prerequisites: participation in the Spring Semester Abroad orientation seminar; 2.25 GPA; junior or senior standing. (F)

ANSC 389  ST: Animal Science  Mim Cr. 0.5-Max Cr. 3

ANSC 433  Advanced Nutrition  Mim Cr. 3-Max Cr. 3
This is a writing intensive course. Anatomy and physiology of the ruminant and monogastric digestive tract and factors affecting nutrient digestibility will be discussed. Biochemical and physiological functions of nutrients in ruminant and monogastric animals will be compared. Course manual fee required. Prerequisites: ANSC 232, AGBI 251 or CHEM 361. (F, Sp)

ANSC 448  Physiology of Reproduction  Mim Cr. 3-Max Cr. 3
A study of the reproductive processes of livestock including anatomy, endocrinology, gonadal function, fertility and factors influencing reproductive performance. Prerequisite: BIOL 150. (F, Sp)

ANSC 485  Seminar: Animal Science  Mim Cr. 1-Max Cr. 1
This is a writing intensive course. A comprehensive review and discussion of recent literature in the field of animal science. Prerequisite: senior standing. Recommended that student has
completed (or be currently enrolled) in a minimum of two of the following: ANSC 346,433, or 448. (F, Sp)

ANSC 490 Independent Study: ANSC Mim Cr. 1-Max Cr. 3
Students will conduct independent study and/or research with a staff member in the specific area of animal science. Prerequisites: junior or senior standing and consent of instructor. (F, Sp, SS)

ANSC 567 Beef Production Mim Cr. 3-Max Cr. 3
The selection, breeding, reproduction, nutrition, and management of beef cattle are covered in this course. Prerequisites: ANSC 231, 232, and 275. (F)

ANSC 633 Advanced Nutrition Mim Cr. 3-Max Cr. 3
This is a writing intensive course. Anatomy and physiology of the ruminant and monogastric digestive tract and factors affecting nutrient digestibility will be discussed. Biochemical and physiological functions of nutrients in ruminant and monogastric animals will be compared. Workbook fee required. Prerequisites: ANSC 232 and AGBI 250. (F, Sp)

ANTH 100 Cultural Anthropology Mim Cr. 3-Max Cr. 3
A survey of the concepts, principles, methods, and major findings of cultural anthropology. The ways in which social learning shapes distinctive attitudes and behaviors in particular groups is examined. Offered yearly.

ANTH 314 Faces of Culture Mim Cr. 3-Max Cr. 3
The full extent of the human imagination is revealed in cultural diversity. This course highlights cultural variation, human adaptability, and the skills of the anthropologist in studying and explaining cultures. Co-listed as ANTH 314. Prerequisites: SOCI 100 or ANTH 100 or consent of instructor. (F, Sp)

ANTH 316 Social & Cultural Change Mim Cr. 3-Max Cr. 3
This course examines the causes and consequences of social change. Various approaches are introduced. Special attention is devoted to the individual's role in creating and dealing with social change. Co-listed as ANTH 316. Prerequisites: SOCI 100 or ANTH 100 or consent of instructor.

ANTH 379 Internship in Anthropology Mim Cr. 3-Max Cr. 12
The internship program allows students to receive university credit for supervised work in an institutional or other setting, which may be situated outside the U.S. Admission to the program requires permission of the instructor. (F, Sp, SS)

ANTH 490 Readings in Anthropology Mim Cr. 1-Max Cr. 2
The course is designed for sociology majors or minors who wish to pursue additional anthropological readings on a topic of interest. Students must complete an application and receive departmental approval before registering. Students are limited to 2 credits per semester and a total of 4 credits. Prerequisites: 18 credits of sociology/anthropology, and major or minor in sociology. (F, Sp, SS)

ANTH 499 Independent Study: ANTH Mim Cr. 1-Max Cr. 2
The course is designed for sociology majors or minors and anthropology minors who wish to pursue an anthropological topic of special interest. Students must complete an application and receive departmental approval before registering. Students are limited to 2 credits per semester and a total of 4 credits. Prerequisites: 18 credits of sociology/anthropology, and major or minor in sociology. (F, Sp, SS)

ART 100 Introduction to Visual Art Mim Cr. 3-Max Cr. 3
This course serves as a broad introduction to the visual arts. Students will develop skills to describe and analyze artworks within their cultural and historical contexts, while gaining an understanding of media and processes. (F, W, Sp, SS)
ART 100  Introduction to Art  Mim Cr. 3-Max Cr. 3
This course serves as a broad introduction to the visual arts. Students will develop skills to describe and analyze artworks within their cultural and historical contexts, while gaining an understanding of media and processes. (F, W, Sp, SS)

ART 121  Design Foundation  Mim Cr. 3-Max Cr. 3
An investigation of the basic elements and principles of two-dimensional design. Students use the computer to investigate fundamentals of design (F,Sp)

ART 131  Drawing I  Mim Cr. 3-Max Cr. 3
The course is a foundation drawing course that explores a variety of ideas, techniques and material with a perceptual focus; drawing as a fine art and a basis for structure. Materials fee is required. (F)

ART 132  Drawing II  Mim Cr. 3-Max Cr. 3
Studio work in drawing with a variety of materials including pencil, charcoal and color media. This class is conceptually based with an involvement and emphasis on structure, ideas and process. Materials fee required. Prerequisite: Art 131. (F,Sp)

ART 211  Western Art to 1500  Mim Cr. 3-Max Cr. 3
Students will study the art of prehistoric humans and the civilizations of ancient Egypt, Mesopotamia, Crete, Mycenae, Greece, Rome, Early Christianity, the Byzantine Empire, the Celts, the Germanic peoples, the Romanesque and Gothic styles, and early Renaissance by means of slide lectures and museum visits. (F)

ART 225  Advertising Design I  Mim Cr. 3-Max Cr. 3
The course is an introduction to advertising design with an emphasis on understanding the processes and procedures used in desktop publishing. Students will be involved with designing and laying out projects on the computer for print. (F, Sp)

ART 226  Introduction to Fibers  Mim Cr. 3-Max Cr. 3
An introduction to the techniques and materials used in fibers, including weaving, surface design, dyeing, felt-making and sculptural forms. Historical and cultural perspectives including personal expression in the arts will be introduced in this course. Prerequisite: Art major, minor or permission from the instructor. Materials fee is required. (F, Sp)

ART 227  Introduction to Clay  Mim Cr. 3-Max Cr. 3
Introduction to Ceramics will introduce students to beginning skills within the field of ceramics. Handbuilding (coil, pinch, slab, modeling) and wheel throwing techniques will be taught, learned and explored. Earthenware or Stoneware clay and glazes will be used. Students will explore sculptural, functional and vessel-making traditions as means of expression for ceramic projects. Through readings, slide lectures, films and demonstrations students will develop and expand their knowledge and understanding of historical and cultural perspectives in ceramics. Materials fee required. (F,Sp)

ART 229  Introduction to Glass  Mim Cr. 3-Max Cr. 3
This course will introduce students to the use of glass as an expressive medium. The course will focus on the basic forming and shaping techniques in both the hot and cold studios to help students elaborate their personal intent. Students will use a variety of projects to understand the material possibilities available through the use of glass. Materials fee is required. (As offered)

ART 235  Intro to B&W Photography  Mim Cr. 3-Max Cr. 3
A fundamental level course designed to introduce technical, conceptual, and historical aspects of photography. These aspects are explored in sufficient detail to enable students to become
familiar with camera, imaging, black/white film and paper processes. Materials fee is required. (F, Sp)

ART 236 Introduction to Printmaking Mim Cr. 3-Max Cr. 3
An introductory exploration of creative possibilities in the basic materials and techniques used in several printmaking mediums: relief, intaglio, monotype, collograph. Lectures will explore historical and cultural perspectives related to printmaking. Materials fee is required. (F, Sp)

ART 237 Introduction to Sculpture Mim Cr. 3-Max Cr. 3
Studio exploration of basic sculpture materials, techniques and ideas; an introduction to personal expression in three-dimensional media as well as historical and cultural perspectives. Historical and cultural perspectives including personal expression in the arts will be introduced in this course. Materials fee is required. Prerequisites: ART 131 and/or 121 completed or taken concurrently.

ART 238 Introduction to Painting Mim Cr. 3-Max Cr. 3
The course is an introduction to painting concepts and techniques. Students learn to work with line, form, texture, and composition, while working with color and experimenting with various painting techniques. Short lectures will explore the historical and cultural context of painting. Materials fee is required. (F, Sp)

ART 250 Child Art Mim Cr. 2-Max Cr. 2
A study of the child in relation to the growth and development of expression in art from pre-school through elementary school as well as art education theory and practices. Materials fee is required. Prerequisite: ART 100 (F, Sp)

ART 289 ST: Art Mim Cr. 3-Max Cr. 3

ART 291 Asian Art History Mim Cr. 3-Max Cr. 3
This course introduces students to the visual arts of Asia from prehistory to the present. While general content is organized chronologically, this course focuses on themes in Asian art that will foster an understanding of major monuments, styles and artistic traditions of India, China, Japan, and Southeast Asia.

ART 308 History of Design Mim Cr. 3-Max Cr. 3
This course gives students opportunities to study the development of design within its art historical context, by exploring how design has been shaped by economic, technological, political, and other social factors. Content areas covered include pre-and post-industrial revolution architectural history, product, industrial, furniture and graphic design. Prerequisite: ART 100. (Yearly)

ART 310 Phil & Hist of Art Mim Cr. 3-Max Cr. 3
One aspect of the course is to investigate philosophical problems, such as: What is art? What makes an artwork "good"? Can artworks be condemned on moral grounds, such as, that they are pornographic or decadent? The other aspect is to examine the artworks themselves, and study some major art movements in history. No philosophical issue will be studied without also illustrating it by or applying it to representative artworks and art movements. (F)

ART 320 Drawing from the Figure Mim Cr. 3-Max Cr. 3
Students work from live models using traditional and mixed drawing media. Class lecture and discussion examines the use of the figure in art, anatomy, space, and linear, value and gestural studies. Emphasis is on both skill and expression. This course may be repeated for credit with increasing emphasis on individual direction. Prerequisite: ART 131, junior standing or permission from instructor. Costs: model fee is required. (Sp)
ART 326  Studio - Fibers  Mim Cr. 3-Max Cr. 3
Studio Fibers is an intermediate to advanced investigation of fiber arts including weaving, dyeing, surface design, felt-making, off-loom techniques and sculptural forms. Emphasis is on technical development, creative expression and aesthetic judgment. Materials fee is required. Prerequisites: ART 226 or consent of instructor. (F, Sp)

ART 327  Studio - Clay  Mim Cr. 3-Max Cr. 3
Studio Ceramics will focus on the experimental uses of clay and clay processes. Students will utilize multiple firing methods, earthenware and stoneware clays, glazes and un-fired practices. There will be directed projects with an emphasis on ideas, conceptual development, and wheel and handbuilding techniques. Students will be free to explore and experiment with their own ideas under guidance of the faculty instructor. Materials fee is required. Prerequisites: Art 227 or consent of instructor. (F, Sp)

ART 329  Studio - Glass  Mim Cr. 3-Max Cr. 3
This course will explore the use of advanced techniques with hot glass as a medium of artistic expression. Using glass as the primary voice, students will work to incorporate their ideas with the technical process of hot glass to create work unique to their personal aesthetic. Materials fee is required. Prerequisites: ART 229 or consent of instructor. (F, Sp)

ART 335  Studio - Photography  Mim Cr. 3-Max Cr. 3
Continued investigation of contemporary and historic photographic processes, including camera operation, printing, and presentation of visual interpretations and assignment ideas. Class content includes darkroom and/or digital photography in the creation of photographic imagery for publication, exhibition, and portfolio. Materials fee is required. Prerequisite: ART 235 or consent of instructor. (F, Sp)

ART 336  Studio - Printmaking  Mim Cr. 3-Max Cr. 3
Students will experience an individualized intermediate and advanced investigation in the printmaking processes of intaglio, lithography, relief and photo-printmaking techniques. An emphasis is placed on developing technical knowledge, strengthening a personal portfolio and developing aesthetic judgment. Material fee is required. Prerequisites: ART 236 or consent of instructor. (F, Sp)

ART 337  Studio - Sculpture  Mim Cr. 3-Max Cr. 3
This course is the intermediate/advanced sculptural practice: materials, methods and medium, concepts, history. Emphasis is placed on the correlation between concepts and materials and personal expression. Creative work in metal (steel, bronze clay, centrifuge casting), wood, found objects, ready-made materials, and plaster. Material fee required. Prerequisite: Art 237. (F,Sp)

ART 338  Studio - Painting  Mim Cr. 3-Max Cr. 3
Intermediate advanced study of painting as creative expression, including oil paint, acrylic and other water base media. Experimental techniques will be introduced. Developing technical skills as well as setting a personal direction will be stressed. Materials fee is required. Prerequisites: ART 238 or consent of instructor. (F, Sp)

ART 378  Semester Abroad Research  Mim Cr. 6-Max Cr. 6
The research component of the a semester of independent study and research in a European country. Taken in conjunction with International Studies 377/577. Prerequisites: Participation in Spring Semester Abroad Orientation Seminar; 2.25 GPA; junior or senior standing (Spring Semester orientation followed by Fall Semester travel)

ART 379  Art Internship  Mim Cr. 3-Max Cr. 10
The internship is designed to allow the student to earn credits through practical field experiences in art. Acceptable experiences must be of a professional level. For example, acceptable experiences might be museum, educational or business related internships; internships in other
alternative educational situations; related artist or designer experience with architects, urban
design centers, display and advertising centers; apprenticeship to established artists; professional
studio experience as an independent professional artist. Prerequisites: previous course work in
related areas with approval of faculty department chairperson and the dean, College of Arts and
Sciences. (F, Sp)

ART 407 Intro to Art Therapy Mim Cr. 3-Max Cr. 3
This hybrid lecture/studio course will provide students with the opportunities to explore the
therapeutic functions of art. The aim is to familiarize students to the definitions, historical roots,
theoretical underpinnings and the basic elements of the field of art therapy and to further
understand the creative potential that exists in all human beings. Students will experience a
variety of art therapy interventions to help comprehend the function of art in a therapeutic context
and have hands on experiences with the theoretical ideas presented in this course. Material fee
required. (As offered)

ART 427 Studio-Clay Mim Cr. 2-Max Cr. 3
Advanced investigation of ceramic materials as media of expression; further development of
manipulative skills, ceramic technology and personal modes of expression. Materials fee is
required. Prerequisite: ART 227 of consent of instructor. (W and/or Sp)

ART 485 Art Seminar Mim Cr. 3-Max Cr. 3
Art Seminar focuses on the professional aspects of being an artist and/or art educator. Each
student will create a personal slide set, slide lecture, resume, artist's statement, cover letter, and
small public exhibit of their work including poster and press release. Prerequisites: ART 121 and
senior level art major. (F, Sp)

ART 486 Senior Exhibition Mim Cr. 1-Max Cr. 1
A senior exhibition is required for all BFA students and strongly recommended for Broad Area Art
Majors. Students will learn theories and practices employed in planning, designing, and preparing
museum and gallery exhibitions. Students will also develop an understanding for equipment, time,
and space considerations in displaying artwork. Prerequisites: Senior art major or minor, Art 485
or 449 (Graphic Design emphasis only), and consent of instructor. (F,Sp)

ART 499 Independent Study Mim Cr. 1-Max Cr. 3
The course entails independent study designed by the student as an exploration of an area,
medium or experimental problem that is not presently within the scope of departmental offerings.
Prerequisites: art majors or minors only, sophomore standing or above, consent of the faculty
supervisor, filling out form and obtaining signatures before registration. (F, Sp)

Alt Educ 701 Alternative Ed Students Mim Cr. 2-Max Cr. 2
In this course, students learn about psychological, social and behavioral aspects of students from
at-risk groups and apply their learning in an onsite practicum.

Alt Educ 702 Tchg Alt Ed Students Mim Cr. 2-Max Cr. 2
Alternative education students need powerful constructivist, kinesthetic learning experiences in
order to succeed. This course looks at best practices for alternative education students and
assists the learner in developing appropriate curriculum through an onsite practicum. Offered as
needed.

BFSS 200 Intro Socsci/Teachers Mim Cr. 3-Max Cr. 3
An introduction to Social Science for students preparing to teach Social Studies at the secondary
or elementary level. Emphasis on methodology, interpretation of data, and in the general content
areas of social science. Prerequisites: BFSS Major or Social Science minor (Elementary
Education Certification). (Sp)
BFSS 400  Curriculum Development BFSS  Mim Cr. 4-Max Cr. 4
The course covers issues relating to the social science disciplines and teaching social studies in grades 6-12. The focus is on learning to develop and teach content-centered social studies courses. Student will develop the ability to teach social sciences as discipline-specific elements and as interdisciplinary elements of the curriculum. Prerequisites: Admitted to Teacher Education. (F)

BIOL 150  General Biology Mim Cr. 3-Max Cr. 3
This course is designed for biology majors and minors and other students majoring in a biological scientific discipline who will take additional biology courses. It serves as a general introduction to fundamental concepts and principles of biology: evolution, classification, ecology, basic chemistry, cell structure and function, energy transformations, cellular reproduction, genetics and molecular biology. The laboratory component of the course provides students with experience in the process of biological science through experimentation, inquiry-based labs, and specific laboratory techniques. (F, Sp)

BIOL 160  Gen Biol - Fr Research  Mim Cr. 4-Max Cr. 4
This course serves as a general introduction to fundamental concepts in Biology: cell structure, function and reproduction, energy transformations, genetics and molecular biology, evolution, and ecosystems. The laboratory component is an extended research project that is continued in BIOL 195 the subsequent semester. Prerequisites: Freshman standing and academic preparation sufficient for Math 146 and ENGL 100, or consent of instructor (F, Sp)

BIOL 210  General Botany Mim Cr. 3-Max Cr. 3
The course surveys the organisms traditionally regarded as plants (cyanobacteria, algae, fungi, seedless vascular plants) as well as gymnosperms and angiosperms. This course also provides a foundation in plant carbon metabolism, plant respiration, water relations and plant molecular biology. Special course fee is required. Prerequisite: BIOL 150. (F, Sp)

BIOL 230  General Zoology  Mim Cr. 3-Max Cr. 3
This course surveys the protozoan protists and traditional animals in a phylogenetic format. Emphasis is on taxonomy, morphology, physiology, ecology, and evolution of these organisms. Special course fee is required. Prerequisite: BIOL 150. (F, Sp)

BIOL 240  Cell & Molecular Biology  Mim Cr. 3-Max Cr. 3
The course examines the structural organization and functional roles of cellular components, intercellular communication, regulation of cellular activities and the laboratory techniques used to study cells. The course emphasizes molecular aspects of eukaryotic cells. Special course fee is required. Prerequisites: BIOL 150; CHEM 121, 122 are recommended. (F, Sp)

BIOL 243  Intro to Biol Greek&Latin  Mim Cr. 2-Max Cr. 2
This course is designed to provide the student with the principles of word structure in technical terminology. Emphasis is on the meanings of bases, prefixes, and suffixes of scientific, especially biological and medical, importance. This is a web-based course. Prerequisite: BIOL 100 or 150. (F, Sp)

BIOL 253  Human Biology  Mim Cr. 3-Max Cr. 3
This course provides an overview of human biology for nonscience majors. Coverage is focused on the human life cycle to include reproduction and development, genetics, and aging. Aspects of human disease such as cancer, AIDS, and addiction are considered. Biological topics are placed in a social and ethical context. Does not count toward Biology major or minor. Prerequisite: BIOL 100 or 150. (F)

BIOL 295  Lab Research Experience  Mim Cr. 2-Max Cr. 2
Students will learn skills necessary for laboratory research in biology. These skills will include experiment design, reagent preparation, data analysis, maintaining a laboratory notebook,
presentation of research results, and specific laboratory techniques. Repeatable with permission of instructor. Prerequisites: BIOL 150 or 160, CHEM 120 or 121 or 130 (F,Sp)

BIOL 296 Field Research Experience  Mim Cr. 2-Max Cr. 2
Students will participate in a field biology research project and learn specific field biology skills and techniques. These skills will include experiment design, data collection, recording and analysis, and written and oral presentation of research results. Prerequisites: BIOL 210 or 230. (F)

BIOL 307 Human Heredity  Mim Cr. 2-Max Cr. 2
The course will be an investigation of principles of transmission and expression of genetic information in humans. Role of hereditary factors in development of normal and pathologic human traits will be examined along with discussion of recent and potential advances in genetics research, their implication for the future of the human species and ethical considerations regarding their implementation. Prerequisite: BIOL 100 or 150. (F, alternate years)

BIOL 310 Identification of Plants  Mim Cr. 3-Max Cr. 3
This course incorporates the basic principles of plant systematics: the study of the diversity of plants and their identification, naming, classification and evolution. Included in this course are plant groups-algae to flowering plants. Students will be expected to make identifications to specified taxonomic levels and relate organisms to ecology and economy of nature and man as well. Special course fee is required. Prerequisite: BIOL 210. (F,alternate years)

BIOL 314 Plant Pathology  Mim Cr. 3-Max Cr. 3
This course is an introduction to the study of plant diseases. Students will study the general characteristics, classification, life cycles and control measures of representative groups of plant pathogens. The course also explores the epidemiology and genetics of plant disease as well as the impact of biotechnology on the field of plant pathology. Special course fee is required. Prerequisite: BIOL 150, and BIOL 210 or CROP/HORT 161. (F)

BIOL 324 Microbiology  Mim Cr. 4-Max Cr. 4
Students will examine morphology, metabolism and systematic relationships of bacteria and other microorganisms and their role in agriculture, industry, sanitation and disease. Microbial genetics and the role of microbes in genetic engineering will be discussed. Prerequisite: BIOL 150; BIOL 240 and CHEM 121,122 are recommended. Special course fee is required. (F,Sp)

BIOL 333 Entomology  Mim Cr. 3-Max Cr. 3
This course is based on the study of insect structure, development, taxonomy, and human-arthropod interactions. The lab focuses on principles of sampling and identification of insects. Prerequisite: BIOL 150. Special course fee is required. Students should arrange to receive collecting instructions and check out an insect net for the summer prior to taking the class. (F)

BIOL 341 Anatomy & Physiology I  Mim Cr. 4-Max Cr. 4
This course includes the anatomical components and physiological mechanisms of organ systems (skeletal, articular, muscular, nervous, sensory, endocrine) of the human organism. Importance is placed on integration of anatomy and physiology, interrelationships of systems, and homeostatic control. The course will provide a solid foundation for students interested in pursuing a career in the medical sciences and biological research. Prerequisite: BIOL 230 (F)

BIOL 344 Wildlife Biology  Mim Cr. 4-Max Cr. 4
This course covers a variety of topics important to wildlife professionals, with emphasis on the management of wetlands, grassland birds, and white-tailed deer in western Wisconsin. Additional topics include habitat design, hunting, predation, and law enforcement. Students are required to participate in regular class discussion of popular and scientific articles relating to current wildlife issues. Working in teams, students will formulate and present management plans published as World Wide Web pages. Guest lectures will be presented by wildlife professionals from the
Wisconsin Department of Natural Resources. Special course fee is required. Prerequisites: BIOL150; at least one course in statistics is recommended.

BIOL 350 Genetics & Evolution Mim Cr. 3-Max Cr. 3
This is a writing intensive course. Principles of Mendelian, quantitative and population genetics in sexually reproducing organisms will be studied along with molecular genetics of prokaryotes and eukaryotes, genetic mechanisms of evolution and chromosome structure and organization. Prerequisite: BIOL 240. (F, Sp)

BIOL 354 Freshwater Biology Mim Cr. 3-Max Cr. 3
The structure and function of freshwater ecosystems, with emphasis on community ecology of both standing and flowing waters, and the application of these principles to proper use of aquatic resources will be examined. Prerequisites: BIOL 150, 210 or 230. (F, alternate years)

BIOL 356 Neurobiology Mim Cr. 3-Max Cr. 3
This course will cover major topics in Neurobiology, including: how we perceive our world, cell biology of neurons and glia, electrical and chemical signaling between cells, the biological basis of behavior, injury, degeneration and regeneration of the nervous system. Prerequisites: BIOL 230 or 240; or consent of instructor. (F)

BIOL 360 Ecology Mim Cr. 3-Max Cr. 3
This is a writing intensive course. Students will examine structure and function of ecosystems along with the interactions of organisms and their environment. Special course fee is required. Prerequisite: BIOL 150 and 210 or 230. (F, Sp)

BIOL 364 Developmental Biology Mim Cr. 3-Max Cr. 3
This course provides students with a comprehensive background in embryonic development. The genetic, cellular, and molecular mechanisms for embryonic development in several important model organisms and humans will be covered. The model systems include, C.elegans (nematode), D. melanogaster (fruit fly), D. rerio (zebra fish), M. musculus (mouse), and others. Additional material includes post-embryonic developmental processes such as regeneration and aging as well as the use of developmental biology in the drug discovery industry. Prerequisite: BIOL 240 and recommended BIOL 350. (F)

BIOL 378 Semester Abroad Research Mim Cr. 6-Max Cr. 6
The research component of the Semester Abroad program. A semester of directed research in a European country. Taken in conjunction with INTS 377/577. Prerequisites: participation in the Spring Semester Abroad orientation seminar; 2.25 GPA; junior or senior standing. (F)

BIOL 379 Internship Mim Cr. 3-Max Cr. 6
Practical work experience in laboratory, field or professional areas of biology will be gained by students. Internship duties and responsibilities will be tailored to the needs of the sponsoring agency and the background of the student. Prerequisites: junior or senior standing, suitable academic background to meet needs of sponsoring agency. Approval of department and the dean, College of Arts and Sciences, is required. (F, Sp, SS)

BIOL 451 Molecular Biology Mim Cr. 4-Max Cr. 4
This course provides students with theoretical and laboratory experience in recombinant DNA techniques, genetic engineering and other molecular biology methods applied in biotechnology industry and research. Required for biotechnology majors. Laboratory notebook and safety goggles required. Special course fee is required. Prerequisite: BIOL 240, 324, and 350; CHEM 362 recommended. (F)

BIOL 453 Virology Mim Cr. 3-Max Cr. 3
The molecular biology of viral structure and function, host-virus relationships and viral dissemination will be examined. The role of viruses in diseases of humans, animals and plants
will also be studied along with laboratory techniques used in their study. Special course fee is required. Prerequisites: BIOL 240, 324. (F)

BIOL 463 Animal Cell Culture Mim Cr. 3-Max Cr. 3
Students will examine the theory and practice of animal cell culture and will develop laboratory skills in isolating and growing cultured animal cells, as well as microscopic observation and biochemical and cytological analysis of cultured cells. Special course fee is required. Prerequisites: BIOL 240, 324. (Sp, alternate years)

BIOL 471 Lab Experiences Mim Cr. 1-Max Cr. 1
Students will gain practical experience in the preparation, execution and instruction of laboratories for introductory courses in the biology curriculum. Prerequisites: biology major or minor, junior or senior standing. (F, Sp)

BIOL 499 Independent Study Mim Cr. 1-Max Cr. 3
Students will perform individual study of a topic or problem involving laboratory, field or library research under supervision of faculty member; a written report is required. Prerequisite: approval of supervising faculty member prior to registration. (F, Sp, SS)

BIOL 700 Cardiac Phys Mim Cr. 4-Max Cr. 4
This course offers students a detailed in-depth coverage of the anatomy and physiology of the human heart under normal and pathological conditions. Students will learn cardiac and vascular anatomy, as well as engage in laboratory exercises that explore, in detail, basic cardiac physiologic functions. Prerequisite: Consent of instructor. (Sp)

BIOT 295 Intro Biotech Research Mim Cr. 1-Max Cr. 1
Students will conduct literature or laboratory work in a specialized area. Maximum 1 credit per semester. Safety goggles, calculator and lab notebook required. Meant to be taken in the freshman or sophomore year. Prerequisite: consent of instructor. No more than one credit can be counted toward the biotechnology electives. (F, Sp)

BIOT 379 Biotech Internship Mim Cr. 1-Max Cr. 6
This course is designed to allow students to earn credit for intensive work experiences in the field of biotechnology. Each internship will be different, depending upon the student and the internship site chosen. In each case, the internship must include a large component of biotechnology which will augment and integrate with the student's professional development. Internships might be associated with a variety of universities, businesses or governmental agencies. A maximum of 6 credits can be earned with a maximum of 4 credits counted towards the major requirements. Prerequisites: consent of the Biotechnology Program Director. (upon student request, F, Sp, SS)

BIOT 495 Biotech Research/Thesis Mim Cr. 1-Max Cr. 3
Students will conduct literature or laboratory work in a specialized area and write a formal scientific paper or thesis on the topic. Safety goggles, calculator and lab notebook required. Prerequisite: consent of instructor. No more than three credits can be counted toward the biotechnology electives. (F,Sp)

BLAW 265 Business Law I Mim Cr. 3-Max Cr. 3
The course begins with an introduction to the U.S. legal system and basic principles of law, and examines in detail the law of torts, and contract/sales. Prerequisite: sophomore standing. (F, Sp)

BLAW 266 Business Law II Mim Cr. 3-Max Cr. 3
This course examines the law of business organizations and employment. Specific topics include agency, partnerships and corporations. Prerequisite: BLAW 265. (F, Sp)
CBE 100  Orientation: CBE  Mim Cr. 0.5-Max Cr. 0.5
This course introduces freshmen and transfer students to the University's support services and to the majors and minors offered in the College of Business and Economics. Students develop a two-year course plan, begin a resume/portfolio, and learn the processes for registration and schedule changes. (F,Sp)

CBE 300  Professional Development  Mim Cr. 0.5-Max Cr. 0.5
This course helps students develop the competencies and skills needed to be a successful member of an organization. Topics include organizational ethics, networking, working in teams, mentors, business writing, and professional etiquette. Prerequisite: admission to the CBE. (F)

CHEM 100  Modern Alchemy  Mim Cr. 3-Max Cr. 3
Student will look at the world from a chemical perspective, learning basic chemistry principles while delving into relevant topics such as fuels, atmospheric chemistry, foods, polymers, water chemistry, and chemicals in the home. Students taking this course may not receive credit for CHEM 101, and this course is not open to students who have already received credit for CHEM 101, 120 or 121. (F, Sp)

CHEM 101  Elem Principles Chemistry  Mim Cr. 3-Max Cr. 3
This course is designed primarily for non-science education majors interested in obtaining a knowledge of chemistry as an experimental science. Emphasis will be placed on introducing future teachers to the tools, principles, and practical applications of chemistry. Students taking this course may not receive credit for CHEM 100, 120, or 121, and this course is not open to students who have already received credit for CHEM 100, 120, or 121. Safety goggles, calculator and laboratory manual (special course fee) required. (F, Sp)

CHEM 115  Concepts in Gen Chem  Mim Cr. 4-Max Cr. 4
A one-semester course covering basic concepts in general chemistry: introduction to the particulate nature of matter (atoms, molecules, ions, compounds, intermolecular forces, states of matter), the quantitative nature of chemistry (measurement, unit conversion, solution concentration), and chemical reactions (stoichiometry, energy, kinetics, equilibrium and acids/bases). While this course emphasizes conceptual understanding of general chemistry content, students are expected to have a working knowledge of basic math including simple algebra. This course does not meet the requirements of most science majors, science options or pre-professional programs. Pre- or Corequisites: MATH 146, or 147, or 149, or 166. (F,SP)

CHEM 120  Intro to General Chemistry  Mim Cr. 6-Max Cr. 6
This course considers chemical formulas, equations, energy changes, atomic and molecular structures, bonding, states of matter and solutions. The lab experiments illustrate chemical principles and introduce the student to synthetic and analytical techniques. Safe handling of chemicals is emphasized. Safety goggles, scientific calculator and laboratory manual (special course fee) are required. This course is required for students who have not taken or who have received a grade lower than a C in high school chemistry. A Upon successful completion, students can enroll in CHEM 122, and/or CHEM 230. Corequisites: MATH 146, 147, 149, or 166. (F,SP)

CHEM 121  General Chemistry I  Mim Cr. 5-Max Cr. 5
This introductory course in the sequence CHEM 121 and 122 is designed for students desiring one or more years of chemistry. Topics covered include chemical formulas and equations, chemical reactions and energy, atomic and molecular structure, safe handling of chemicals and synthetic analytical technique. Three hours of lecture, one hour discussion, and three hours of lab per week. Scientific calculator, safety goggles and laboratory manual (special course fee) required. Prerequisite: High school chemistry. Pre- or corequisite: MATH 146 or comparable proficiency as demonstrated by ACT Math or UW System Math Placement Test scores. (F, Sp)
CHEM 122  General Chemistry II  Mim Cr. 5-Max Cr. 5
This course is a continuation of both CHEM 120 and 121. Topics include chemical kinetics and equilibrium, acid base chemistry, solubility, thermodynamics, electrochemistry, safe handling of chemicals and synthetic and analytical techniques. Three hours of lecture, one hour of discussion and three hours of lab work per week. Scientific calculator, safety goggles and laboratory manual (special course fee) required. Prerequisite: A grade of C- or better in CHEM 120 or 121. (F, Sp)

CHEM 130  Intro Organic Chem  Mim Cr. 5-Max Cr. 5
This course is the first course in an introductory sequence designed for science majors consisting of Chem 130, 233, 240 and 250. This course introduces students to the important principles of chemistry using an emphasis on organic chemistry and biological examples. Topics covered include chemical formulas and equations, chemical reactions and energy, atomic and molecular structure, safe handling of chemicals and spectroscopy. Three hours of lecture, one hour discussion, and three hours of lab per week. Scientific calculator, safety goggles and laboratory manual (special course fee) required. Prerequisites: Must have high school chemistry, or Math 146 or ACT Math of 20+ or UW System Math placement scores of 40+ (F)

CHEM 230  General Organic Chemistry  Mim Cr. 3-Max Cr. 3
For those desiring only one semester of organic chemistry. Includes some chemistry of acids and bases and solutions. Not open to those with credit in CHEM 231. Prerequisites: A grade of C or better in CHEM 120 or 121. (F, Sp)

CHEM 231  Organic Chemistry I  Mim Cr. 3-Max Cr. 3
The course is an introduction to the study of carbon-containing compounds. Basic principles of atomic orbital hybridization, bonding, acid-base definitions and mechanistic drawings are reviewed. Naming of different functional groups and their infrared spectroscopic characteristics are introduced. Other topics include stereochemistry, conformations of cyclic alkanes, ionic substitution and elimination reactions of alkyl halides and addition reactions to alkenes. Pre- or corequisite: CHEM 122. (F)

CHEM 232  Organic Chemistry II  Mim Cr. 3-Max Cr. 3
This course is a continuation of CHEM 231. Nuclear magnetic resonance spectroscopy as a method for structure elucidation will be introduced. The typical reactions of alcohols, amines, aldehydes, ketones, aromatic compounds and carboxylic acids and their derivatives will be studied. A brief introduction to carbohydrates and proteins will be presented. Pre-requisite: A grade of C- or better in CHEM 231. (Sp, SS)

CHEM 236  Organic Chemistry Lab I  Mim Cr. 1-Max Cr. 1
Emphasis is on the preparation and properties of organic compounds. Laboratory notebook and safety goggles required. Pre- or corequisite: CHEM 231. (F)

CHEM 237  Organic Chemistry Lab II  Mim Cr. 1-Max Cr. 1
Emphasis is on the preparation and properties of organic compounds. Laboratory notebook and safety goggles required. Prerequisite: CHEM 236. Pre- or corequisite: CHEM 232. (Sp)

CHEM 240  Principles of Gen Chem  Mim Cr. 4-Max Cr. 4
This course introduces traditional topics of general chemistry for students in the Organic First chemistry track (Chem 130/233/240). Topics include atomic and molecular structure, states of matter, chemical kinetics, acid/base chemistry, equilibrium, thermodynamics, and electrochemistry. Safety goggles, calculator and laboratory manual (special course fee) required. Prerequisite: a grade of C- or better in CHEM 233. (F)

CHEM 250  Found Analytical Chem  Mim Cr. 4-Max Cr. 4
Theories and methods of analytical chemistry will be discussed. Topics include statistical data analysis, titrimetric analysis, spectroscopic analysis, equilibrium, and electrochemistry. The laboratory will focus on techniques of quantitative chemical and instrumental analysis. Knowledge
of basic algebra is necessary. Pre-requisite: A grade of C- or better in CHEM 122 or in CHEM 240. (F, Sp)

CHEM 295  Intro to Undergraduate Res  Mim Cr. 1-Max Cr. 1
Students will conduct literature or laboratory work in a specialized area. Maximum of one credit per semester. Safety goggles, scientific calculator and lab notebook required. Prerequisite: consent of instructor. No more than one credit of CHEM 295 can be counted toward a major or minor in Chemistry. (F, Sp)

CHEM 340  Physical Chem Biological Sys  Mim Cr. 3-Max Cr. 3
This course is an introduction to physical chemistry with emphasis on applications to biochemical systems. The areas of thermodynamics, equilibrium, redox properties, kinetics, colligative properties, diffusion, viscosity, sedimentation and spectroscopy are covered and application is made to macromolecules. Scientific calculator required. Prerequisites: CHEM 232 or 233, and 250 or 251 ; MATH 166, BIOL 150. (F)

CHEM 341  Thermo & Kinetics  Mim Cr. 3-Max Cr. 3
This course will cover aspects of thermodynamics, equilibria, chemical kinetics, electrochemistry, kinetic molecular theory of gases, and an introduction to statistical mechanics. Prerequisites: MATH 266, CHEM 122, and PHYS 152 or 162. Concurrent registration in MATH 266 or PHYS 152/162 with consent of instructor. (F)

CHEM 355  Separation Science Laboratory  Mim Cr. 1-Max Cr. 1
Separation techniques applied to the analysis of chemicals and biochemicals. Includes work with gas and liquid chromatography, capillary electrophoresis, protein/peptide/DNA purification, centrifugation, filtration and sample preparation. Emphasis is on the steps involved in developing separation methods, rather than simple replication. Laboratory manual (special course fee), notebook, and safety goggles required. Prerequisites: CHEM 232 and CHEM 237 or 247. (F,Sp)

CHEM 360  Foundations Biochem  Mim Cr. 4-Max Cr. 4
This course is a survey of the structures, functions, and metabolism of the biological macromolecules including proteins, carbohydrates, nucleic acids, and lipids. The course is intended primarily for pre-professional students who are looking for a single semester course in biochemistry that will prepare them for their pre-professional entrance exams and their professional programs. Prerequisites: BIOL 150 and either CHEM 232 or CHEM 240. CHEM 360 may not be taken for credit if CHEM 361 or CHEM 362 have already been completed. (F, Sp)

CHEM 361  Biochemistry I  Mim Cr. 3-Max Cr. 3
The course is an introduction to the structures and functions of the major chemical constituents of living organisms, including the study of enzyme kinetics, mechanism, and regulation, and the study of membrane structure and function. Prerequisites: A grade of "C-" or better in the following: BIOL 150 and CHEM 232 or CHEM 240 and 250 or instructor consent for graduate students. (F, Sp)

CHEM 366  Biochemistry LaboratoryMim Cr. 1-Max Cr. 1
This is a writing intensive course. An introduction to the fundamental techniques used in the study of biochemical systems. Separation and analysis of biological molecules and subcellular fractions. Enzyme kinetics and metabolism. Three hours of laboratory per week. Requires computer data analysis. Laboratory manual (special course fee), safety goggles, and laboratory notebook are required. Prerequisite: CHEM 361/561. (Sp)

CHEM 401  Advanced Chemistry Lab I  Mim Cr. 1-Max Cr. 1
This is a writing intensive course. This course is for chemistry majors or other students requiring advanced experimentation in integrated laboratory experiments requiring physical measurement, analysis, synthetic methods, spectroscopy, kinetics and computer data analysis. Techniques illustrate principles of physical chemistry and inorganic chemistry synthesis and characterization.
Safety goggles and laboratory notebook are required. Pre-requisites: CHEM 237, CHEM 250, and CHEM 356 or consent of instructor. Pre- or corequisite: CHEM 341. (F)

CHEM 422 Advanced Inorganic Chem I Mim Cr. 3-Max Cr. 3  
This is a writing intensive course. The course is an introduction to the modern theories of inorganic chemistry with emphasis on atomic structure, bond theories, chemical forces, acid-base chemistry, chemistry in aqueous and nonaqueous systems, and theory and structure of coordination complexes. Prerequisite: CHEM 342/542 or consent of instructor. (F)

CHEM 480 Chemistry Comm & Research Mim Cr. 1-Max Cr. 1  
This is a writing intensive course. The course is primarily intended for chemistry majors in their senior year. Students are required to research a specialized area of interest in any area of chemistry and then report their results in a departmental seminar. Students may elect to do either library or laboratory research. Prerequisites: senior standing, completion of at least 20 cr. of chemistry or consent of instructor. (F, Sp)

CHEM 495 Undergraduate Research Mim Cr. 1-Max Cr. 1  
Students will conduct literature or laboratory work in a special area. Maximum of one credit per semester; two credits total. Safety goggles and laboratory notebook are required. Prerequisite: consent of instructor. (F, Sp)

CHIN 101 Beginning Chinese I Mim Cr. 4-Max Cr. 4  
An introduction to the study of reformed Mandarin Chinese. Basic vocabulary, calligraphy, conversation and cultural material. CHIN 101 presumes no previous study of the language. (F)

CHIN 201 Intermediate Chinese I Mim Cr. 4-Max Cr. 4  
Study of reformed Mandarin Chinese vocabulary, calligraphy, conversation and cultural material at the intermediate level. Prerequisite: CHIN 102 or equivalent or consent of instructor. (F)

CJ 202 Intro to Criminal Justice Mim Cr. 3-Max Cr. 3  
The course is designed to introduce students to the processes, procedures, practices and interrelationships of those agencies involved in the American criminal justice system. The role of law enforcement, the court systems, and the processes of corrections will be examined with an emphasis upon examining each component and their relative strengths and weaknesses in the crime control process. Contemporary issues and problems encountered by the criminal justice system will also be addressed. Prerequisite: One of the following: SOCI 100, ANTH 100, PSYC 101, POLS 114

CJ 320 Juvenile Delinquency Mim Cr. 3-Max Cr. 3  
The course examines the history and development of juvenile justice in America, including the changing philosophical basis of the system; the role and function of the police, juvenile courts, and institutional and community correctional programs. A variety of important topics and current issues are examined throughout the course, such as the nature and extent of juvenile crime, gang-related delinquency, and juvenile rights. Prerequisite: CJ 202 or SOWK 215. (Yearly)

CJ 355 Race and Crime Mim Cr. 3-Max Cr. 3  
This course is designed to explore the "peculiar" problem of racial and ethnic minorities in crime and criminal justice. Specifically, students will learn that racism and criminality (what most lay people offer as explanations) are insufficient in explaining the overrepresentation of people of color in the criminal justice system. Prerequisites: CJ 202 or consent of instructor. (F)

CJ 376 Law Enforcement Cert Intern Mim Cr. 6-Max Cr. 6  
This internship involves completion of the 400 hour Certification Academy in Eau Claire, Wisconsin, allowing students to obtain the State of Wisconsin Basic Recruit Training Certificate for police officers. Costs of the training must be paid by the student. Prerequisites: Junior status,
criminal justice minor, minimum GPA of 2.5 both overall and in minor, completion of candidate package and acceptance into the Certification Academy. Graded Pass/Fail. (F, Sp, SS)

CJ 379 Internship Criminal Justice  Mim Cr. 6-Max Cr. 12
The course is designed for criminal justice minors desiring actual work experience in a supervised setting such as law enforcement, corrections, probation/parole, etc. Prerequisites: criminal justice minor, 2 sociology/ criminal justice, 2.25 overall GPA, 2.5 sociology/criminal justice GPA, admission to the Sociology/Criminal Justice Internship Program. (F, Sp, SS)

COMD 160 Intro to Comm Disorders  Mim Cr. 3-Max Cr. 3
This course is designed as an introductory survey of speech, language and hearing disorders. Specific topics considered include disorders of articulation, stuttering, voice, language and hearing. Students completing 160 should not take 163. (F, Sp)

COMD 162 Intro to Amer Sign Language  Mim Cr. 3-Max Cr. 3
This is an introductory-level class enabling students to gain a basic understanding and use of the language and culture of the deaf in America. (F, Sp)

COMD 261 Language Development Mim Cr. 4-Max Cr. 4
Normal language development from birth through adolescence will be studied. (F)

COMD 262 Speech Systems  Mim Cr. 4-Max Cr. 4
This course covers the anatomy and physiology of the speech production mechanism, with special emphasis on the role of the respiratory, laryngeal and oral articulatory systems. The neuroanatomy for speech system functioning is integrated into the discussion of speech production. Prerequisite: 160. (F)

COMD 263 Phonetics  Mim Cr. 3-Max Cr. 3
Students will study the production and classification of the sounds of American English, with emphasis upon transcription using the International Phonetic Alphabet. This course of study aids the student in understanding the sound structure of American English. Those interested in a career in communicative disorders must be aware of the sound variation within the language and demonstrate skill in the use of the International Phonetic Alphabet. Prerequisites: 160 and 262. (F)

COMD 275 Pract:Observation & Disc  Mim Cr. 1-Max Cr. 1
This course primarily involves directed observation of therapeutic and diagnostic sessions. A total of 25 hours of observation is required. Prerequisite: 160. Materials fee required. (F, Sp)

COMD 289 Special Topics: Comm Dis  Mim Cr. 1-Max Cr. 1

COMD 360 Audiology I  Mim Cr. 3-Max Cr. 3
This course provides information pertaining to the anatomy and physiology of the auditory system, audiological diagnostic test procedures auditory disorders, and basic acoustics. Prerequisite: 160. (Fa)

COMD 463 Behavior Mod/Stuttering  Mim Cr. 3-Max Cr. 3
Behavioral principles and procedures for modifying communicative disorders will be examined along with methods of measuring and verifying behavior change resulting from application of treatment procedures. Training in development of modification programs for the communicatively impaired and the study of the nature of stuttering and the therapeutic procedures used in the prevention and treatment of stuttering are covered. Prerequisite: 160. (F)

COMD 469 American Sign Language  Mim Cr. 3-Max Cr. 3
This course implements a discussion of the philosophy and practical application of American Sign Language. Emphasis will also be on origins to present day use of ASL, deaf culture, types of
hearing loss, speech reading, interpreting, and technology available for the deaf. (upon student request)

COMD 479  Clinical Proc and Exp  Mim Cr. 3-Max Cr. 3  
Clinical practice patterns of assessment and intervention for children and adults who experience communication disorders will be discussed and will be implemented in a clinical setting. Prerequisites: COMD major or post. bac., COMD 261, 262, 263, 264, 275. (F, Sp)

COMD 499  Independent Study  Mim Cr. 1-Max Cr. 3  
Independent Study in Communicative Disorders.

COMD 579  Clinical Experience Intern  Mim Cr. 2-Max Cr. 2  
This course provides supervised clinical experience that allows students to achieve skills outcomes in prevention, assessment and intervention for individuals who experience communicative disorders. Students earn clinical clock hours through experiences in the university speech-language-hearing clinic. Students enroll during fall, spring and summer session of their first year. (F, Sp, SS)

COMD 715  Research Methods in COMD  Mim Cr. 3-Max Cr. 3  
This course is designed to familiarize students with research methodologies used in the behavioral sciences. Students will learn a variety of group and single subject research designs, research strategies, the potential threats that need to be avoided when conducting research, and the value of treatment efficacy studies. (F)

COMD 716  Anat & Phys CNS  Mim Cr. 2-Max Cr. 2  
The purpose of the course is to familiarize graduate students with structures and functions associated with the central nervous system. Emphasis is placed on understanding the clinical manifestations of neuroanatomical/neurophysiological dysfunction. (F).

COMD 717  Neuropathologies  Mim Cr. 3-Max Cr. 3  
This course provices advanced study of the etiology, incidence, and rehabilitation/habilitation of individuals with motor speech disorders: an in-depth discussion of other neuropathologies affecting the speech processes. Emphasis on the principles and procedures of speech and language habilitation/rehabilitation. Prerequisite: graduate standing. (Sp)

COMD 730  Audiology II  Mim Cr. 3-Max Cr. 3  
A review of basic concepts in audiology and an expansion of information on anatomy and physiology and how audiological findings relate to the etiology, otologic findings, and remediation of the more common pathologies resulting in hearing loss. (F)

COMD 764  AAC Systems  Mim Cr. 3-Max Cr. 3  
This course introduces students to the field of augmentative and alternative communication. It identifies communication problems common to a variety of populations with disabilities and presents recent remedial procedures which are utilized to train communication skills. Emphasis will be placed on assessment strategies, intervention strategies, and the integration of technology for learners exhibiting moderate/severe disabilities. (F)

COMD 772  Practicum: Audiology  Mim Cr. 1-Max Cr. 1  
Supervised clinical experience allowing students to achieve skills outcomes in prevention and assessment in audiology. Includes hearing screening and assessment at the on-campus clinic and off-campus sites. (F, Sp)

COMD 773  Practicum: Schools  Mim Cr. 6-Max Cr. 6  
This course provides supervised clinical experience that allows students to achieve skills outcomes in prevention, assessment and intervention for children who experience communicative
disorders. Students earn clinical clock hours through experiences in urban, suburban and/or rural public schools. (F, Sp)

COMD 774  Practicum: Rehab Fac  Mim Cr. 6-Max Cr. 6
This course provides supervised clinical experience that allows students to achieve skills outcomes in prevention, assessment and intervention for children and/or adults who experience communicative disorders. Students earn clinical clock hours through experiences in hospitals, rehabilitation centers, and/or long-term care facilities. Prerequisites: COMD 717, 750, and 765. (F, Sp)

COMD 798  Independent Research  Mim Cr. 1-Max Cr. 4

COMD 799  Thesis  Mim Cr. 1-Max Cr. 6

COMS 101  Fundamentals of Oral Commun Mim Cr. 3-Max Cr. 3
The course offers communication experiences intended to improve students' speaking and listening skills across a broad spectrum of situations including multicultural interactions, public communication, small group interaction, interpersonal communication, and interviewing.

COMS 101  Fundamentals of Oral Comm  Mim Cr. 3-Max Cr. 3
The course offers communication experiences intended to improve students' speaking and listening skills across a broad spectrum of situations including multicultural interactions, public communication, small group interaction, interpersonal communication, and interviewing.

COMS 101  Fundamentals of Oral Comm Mim Cr. 3-Max Cr. 3
The course offers communication experiences intended to improve students' speaking and listening skills across a broad spectrum of situations including multicultural interactions, public communication, small group interaction, interpersonal communication, and interviewing.

COMS 106  Interpersonal Communication Mim Cr. 3-Max Cr. 3
Students will study the stages of relationship development and deterioration. They will study the effects of trust, openness, empathy, and self-disclosure on interpersonal communication and will also learn how to manage conflicts and how males/females communicate differently. (F, Sp)

COMS 116  Business & Prof Comm Mim Cr. 3-Max Cr. 3
Students will examine those forms and types of speech typically used in the career setting: for example, a sales speech, interview, or presentation. Special attention will be given to the forms of career messages and media for communication, including visual aids. (F, Sp)
The public speaking course is a performance class that will include giving several speeches aimed at different objectives in a variety of settings. It will include the study of speeches given by others locally, nationally, and historically. Basic concepts of speaking will be studied.

Prerequisites: COMS 101. (F)

This course introduces students to the complex relationship between culture and communication. The role of communication and context (social, cultural, historical) in Intercultural interactions is examined through multiple conceptual perspectives. In addition, issues surrounding theory development, such as ethical considerations and dialogues on opposing perspectives, are examined. (F, W, Sp, SS)

This course offers an introduction to the discipline of communication. The primary goal of this course is to gain knowledge of the different aspects of communication studies. This course will introduce students to primary theories used in communication studies, and begins to introduce students to the beginning tools of research (F, Sp).

This course offers an introduction to the discipline of communication. The primary goal of this course is to gain knowledge of the different aspects of communication studies. This course will introduce students to primary theories used in communication studies, and begins to introduce students to the beginning tools of research (F, Sp).

The course presents opportunities for comparison of decision-making systems with application through a variety of written and oral assignments. Emphasis is placed on the ability to research and define the quality of evidence and supporting materials used within arguments. (F)

The course is an examination of communication in the organizational setting, including the study of networks, roles, and strategies. Students will learn the basic steps in a communication audit and techniques for improving organizational communication. Prerequisite: COMS 284 or consent of instructor. (F, Sp)

The course integrates contemporary leadership theories with oral communication knowledge and skills. Students will develop a personal leadership communication profile and will have opportunities to practice effective leadership communication in a variety of contexts. (Sp, alternate years)

The Communication Studies and Theatre Arts internship is a program which places selected students in businesses, industries, or organizations to provide opportunities to practically apply their knowledge of and skill in speech, mass media, or theatre arts. Students may elect a 3-12 credit internship. This experience will be evaluated on a PASS/FAIL basis. Prerequisite: Junior or
higher standing and permission of DFT internship supervisor. Students may count a total of 12 internship credits toward their degrees. (F, Sp, SS)

COMS 486  CSTA Capstone Project  Mim Cr. 3-Max Cr. 3
Students, complete a major independent research, scholarly or creative project focusing on communication studies. Students learn to construct and present a career portfolio. Students learn the finer points of scholarly and business writing. Students present their final project in a professional setting to a panel of Communication faculty. Prerequisite course: COMS 386. (F, Sp)

COMS 499  Independent Study/Research  Mim Cr. 1-Max Cr. 3
A given subject in communication studies, mass communication, and/or theatre arts will be pursued in-depth. Prerequisite: consent of instructor and department chair. (F, Sp)

COUN 610  Intro to School Counseling  Mim Cr. 3-Max Cr. 3
This course is designed to familiarize students with an overview of the field of school counseling and basic skills. (F, Sp)

COUN 612  Lifespan Human Development  Mim Cr. 3-Max Cr. 3
This course provides an overview of human development theory as it relates to personal and psychological development: cognitive, ego-identity, aesthetic, moral, social, perspective-taking, multicultural, and emotional development, and life transitions. Information relative to assessing developmental levels and age-appropriate tasks and transitions, selecting and implementing expressive or action-oriented interventions to match these levels, and evaluating the effectiveness of such interventions will be provided. Prerequisite: COUN 610. (F, Sp)

COUN 620  Career Counseling  Mim Cr. 3-Max Cr. 3
This course introduces the student to a variety of theories and practices in career counseling and career development as applied to a comprehensive, developmental school counseling program model. The use of career assessments, information sources (including computerized and online career guidance and information systems), and career counseling skills are discussed and practiced, emphasizing cultural considerations. Prerequisite: COUN 610. (F)

COUN 732  Group Counseling  Mim Cr. 3-Max Cr. 3
This course focuses on the study of techniques and theories of group counseling through supervised experience in small groups. The purpose is two-fold: (1) to acquaint the student with the theories and techniques of the major approaches to group counseling through didactic presentation and (2) to integrate content with practical application via student involvement in various types of group experiences. This course is designed to facilitate experiential learning. Prerequisite: none (F, Sp)

COUN 753  Counseling Theory & Skills  Mim Cr. 3-Max Cr. 3
This course will present to the student the basic theories of counseling. The intent of the course is to provide counseling students with a basic understanding of the major theories of counseling as well as specific skills for interviewing and counseling. Psychodynamic, Client-Centered, Existential, Cognitive, and Behavioral therapies are among those presented. Students will engage, as counselors, in four 30-minute sessions with a client. Prerequisite: COUN 610.

COUN 770  K-12 Curriculum  Mim Cr. 3-Max Cr. 3
This course will engage students in the process of developing a comprehensive guidance curriculum, based on the ASCA National Standards. The focus of the instruction will include program development, implementation, modes of delivery, and coordination of counseling services with school curriculum for various domains. (F)
COUN 771  Elem School Internship  Mim Cr. 3-Max Cr. 3
The practicum is the culminating experience of the graduate counseling program. Students select school settings in which to obtain practical training. This field work is combined with group seminars providing additional supervision and group discussions of topics relevant to the professional practice of counseling. Prerequisites: COUN 610, 612, 615, 620, 720, 732, 753, or consent of instructor.

COUN 772  Middle School Internship  Mim Cr. 3-Max Cr. 3
The practicum is the culminating experience of the graduate counseling program. Students select school settings in which to obtain practical training. This field work is combined with group seminars providing additional supervision and group discussions of topics relevant to the professional practice of counseling. Prerequisites: COUN 610, 612, 615, 620, 720, 732, 753, or consent of instructor. (F, SP)

COUN 773  Scndry School Internshp  Mim Cr. 3-Max Cr. 3
The practicum is the culminating experience of the graduate counseling program. Students select school settings in which to obtain practical training. This field work is combined with group seminars providing additional supervision and group discussions of topics relevant to the professional practice of counseling.

COUN 798  Independent Research  Mim Cr. 1-Max Cr. 3
Provides an opportunity for individual student-faculty cooperation in developing and conducting research.

CROP 257  Genetics  Mim Cr. 3-Max Cr. 3
Students will study important concepts of plant genetics including linkage, extra chromosomal inheritance, quantitative inheritance, and environmental effects on phenotype, ploidy and mutations as related to agronomic and horticultural crops. Prerequisites: CROP or HORT 161, BIOL 100. (F)

CROP 260  Plant & Seed Identification  Mim Cr. 3-Max Cr. 3
The course is designed to provide students with the skills necessary to name, characterize and identify plants and seeds of crop and weed species. Prerequisite: CROP or HORT 161. (F)

CROP 262  Equine Forage Systems  Mim Cr. 2-Max Cr. 2
Students will learn to evaluate, purchase and safely store hay; design and implement pasture systems; and how to establish and maintain quality horse pasture. Student will learn to identify toxic plant species and how to manage, harvest and feed the appropriate crops to be used as forage for horses. Prerequisites: CROP/HORT 161. (F).

CROP 263  Forage Crop Production  Mim Cr. 3-Max Cr. 3
This course covers the theory and cultural practices of forage crop production. Major emphasis is given to forage production in the midwest and Wisconsin specifically, but students also are introduced to species and practices utilized in other soil and climatic environments. Species characteristics, adaptations, growth and management requirements of the major forage legumes and grasses are discussed. Prerequisite: CROP or HORT 161. (F, Sp)

CROP 266  Corn & Soybean Production  Mim Cr. 3-Max Cr. 3
This is a writing intensive course. The course provides an in-depth investigation of the agronomic requirements and practices of corn and soybean production. Grain grading and determination of market grades of corn and soybeans is covered. Field trip and a crop judging exercise is required. Prerequisite: CROP or HORT 161. (F, Sp)
CROP 270    Internship I   Mim Cr. 2-Max Cr. 4
An additional off-campus occupational work experience for the student. Involves full-time employment with a cooperating agency or firm. Prerequisites: 30 cr. and consent of director and faculty coordinator. (F, Sp, SS)

CROP 289    ST: Agronomy   Mim Cr. 0.5-Max Cr. 3

CROP 363    Pasture Production   Mim Cr. 2-Max Cr. 2
The course will define and describe the various pasture and grazing system alternatives. Pasture production and management principles will focus on species and variety selection; establishment methods; maintaining productive, high quality stands; managing the grazing process; and evaluating pasture productivity. Students will learn to design intensive rotational grazing systems, minimize pasture hazards, and design pastures to meet the needs of various classes of livestock such as dairy cows, beef cows and calves, sheep, and horses. Prerequisites: CROP 263 or consent of the instructor, and junior or senior standing. (F)

CROP 370    Internship II   Mim Cr. 2-Max Cr. 4
An additional off-campus occupational work experience for the student. Involves full-time employment with a cooperating agency or firm. Prerequisites: Ag. 270 and consent of director and faculty coordinator. (F, Sp, SS)

CROP 389    ST: Agronomy   Mim Cr. 0.5-Max Cr. 3

CROP 451    Integrated Pest Management   Mim Cr. 3-Max Cr. 3
This is a writing intensive course. The course is designed to examine the theory, concepts and technology involved in integrated pest management. The course will include pesticide characteristics, usage and safety; economic considerations; human and environmental concerns; and descriptions of pest management systems being used in various crops. Prerequisites: CROP or HORT 161 and junior or senior standing.

CROP 468    Organic Production   Mim Cr. 3-Max Cr. 3
This course will provide knowledge and understanding of organic plant production systems compared to sustainable and traditional systems. Crop rotations, organic nutrients, pest management, certification, organizations, environmental stewardship, consumer responsibility, economics, and specialty marketing will be discussed. Students will tour local farms to learn technical, social and economic concepts related to organic crop production. Prerequisite: Completion of CAFES Foundation of Agriculture courses, Crop 368, or consent of instructor. (Fall)

CROP 485    Seminar: Agronomy   Mim Cr. 1-Max Cr. 1
This is a writing intensive course. The course includes a review of new developments in agronomy and presentation of seminars covering one or more of these developments. Prerequisite: senior standing. (F)

CROP 490    Independent Study   Mim Cr. 1-Max Cr. 3
Students will perform independent study and/or research projects under the supervision of a faculty member. Prerequisites: junior or senior standing and consent of instructors. (F, Sp)

CROP 689    ST: Agronomy   Mim Cr. 0.5-Max Cr. 3

CSIS 120    Technology Ethics   Mim Cr. 3-Max Cr. 3
An examination of ways technology challenges traditional ethical, legal and social concepts. This includes issues generated by the use of computers and computer networks, including the Internet and the World Wide Web. Topics for consideration include: privacy, security, computer crime, software piracy, copyrights, intellectual property, free speech, access to information/censorship, E-commerce, gender and civil liberties in cyberspace. (F, Sp, SS).
CSIS 161  Programming I  Mim Cr. 3-Max Cr. 3
An introduction to fundamental computer concepts and structured programming techniques. The programming language Java will be used to teach the basic concepts of program analysis, design, implementation debugging and testing. Topics include: simple data types, problem solving, program design, conditional execution, loops, and basic user defined methods. Prerequisite: Math 146(F, Sp, SS)

CSIS 162  Programming II  Mim Cr. 3-Max Cr. 3
A continuation of fundamental computer concepts and Programming. Java will be used to teach the basic concepts of program analysis, design and implementation. Topics include: Methods, File IO, Arrays and their applications, Abstract Data Types, Classes, simple Java GUI application, Inheritance and composition. Prerequisites: CSIS 161 (F,S)

CSIS 215  IS for Business Mngt  Mim Cr. 3-Max Cr. 3
Students will gain an understanding of the concepts and applications of information systems and how information systems support organizational objectives, business processes and decision making. Students will develop an appreciation of the managerial issues pertaining to acquisition, development and use of information technology and systems. Prerequisite: CBE 100 or Consent of CSIS Chair. (F, Sp, SS)

CSIS 235  Object Oriented Programming  Mim Cr. 3-Max Cr. 3
This course is an introduction to Object-Oriented Programming techniques using the Java programming language. Students will gain skills in using Classes and Interfaces, Exception handling, Programming by Contract, Inheritance, Overloading, Abstract Classes and Methods, Serialization, Generics, and Introduction to Recursion. Prerequisites: CSIS 162. (F, Sp)

CSIS 247  Intro to Computer Networks  Mim Cr. 3-Max Cr. 3
This is an introductory course to computer networks. Students will become comfortable with the concepts and vocabulary of computer networking and will gain hands-on experience in basic networking technology. Topics include: Network hardware, communication protocols, design and configuration of computer networks and network security. The course also includes a lab component on installation, setup and administration of network operating systems. Prerequisite: CSIS 162 (F, Sp)

CSIS 333  Database Management Systems  Mim Cr. 3-Max Cr. 3
Introduction to database systems, database administration and database design concepts, relational model and relational database systems are further examined through class projects. Security, privacy, concurrency control, distributed databases, object-oriented database, and client/server systems will be examined. Prerequisite: CSIS 162. (F)

CSIS 343  Software Engineering  Mim Cr. 3-Max Cr. 3
This course provides an overview of the process involved in software projects: requirements analysis, design methods, programming languages, coding practices, software testing, documentation, and maintenance. Students will work on a team software project. Prerequisites: CSIS 237. (F)

CSIS 379  Internship in Computer Sci  Mim Cr. 3-Max Cr. 12
A temporary paid job (usually lasting for one semester or summer) providing pre-professional experience in an off-campus business or institution. The job must provide practical applications of computer-related skills and personal growth in these skills. Selected students will be matched with sponsoring organizations and a job description and evaluation method will be negotiated for each opportunity. The number of credit hours depends on the number of hours of employment. Prerequisites: CSIS 236, 241, and at least one 300-level Computer Systems course; 60 or more credit hours with a GPA of 3.0 or better; permission of Computer Systems Internship Supervisor; permission of Computer Systems Department Chair. (F, Sp, SS)
CSIS 423  Intro to Systems Analysis  Mim Cr. 3-Max Cr. 3
This course integrates the areas of computer technology, system analysis, system design and organizational behavior. Functions of the system analyst will be investigated including steps and tools used in the analysis and design of Information Systems. Topics include: development tools, system planning and alternatives, feasibility analysis, and selection strategies. Prerequisite: CSIS 333 (may be taken concurrently) (F)

CSIS 425  Multi-Tier Web Systems  Mim Cr. 3-Max Cr. 3
This is an advanced course on web-enabled multi-tier software system development. Students will learn the complexity and dynamics of developing web-enabled multi-tier applications and will acquire skills in the construction of such software systems. Topics include: Multi-Tier architectures, Web-Enabled Applications, Server-Side Components, Database Connectivity, Web-Enabled Data Representation, Client-Side Communication, Web Services, and other aspects of Cloud Computing. Prerequisite: CSIS 225, 237, 333 (F)

CSIS 429  Operating Systems  Mim Cr. 3-Max Cr. 3
This course is an introduction to the principles of designing Operating Systems. Students will gain an understanding of processes, synchronization and deadlocks, memory management, and file systems. Prerequisites: CSIS 248 and 355. (Sp)

CSIS 440  IS Project Management  Mim Cr. 3-Max Cr. 3
Today many careers are tied to projects where success depends on having skills in project management. This course will focus on topics such as project definition, project evaluation, estimation of time and costs, developing a project plan, allocating resources to the project, managing project risks, and measuring project performance. Prerequisite: Junior Standing and Econ/Math 226. (F)

CSIS 451  Artificial Intelligence  Mim Cr. 3-Max Cr. 3
This is an introductory course in the field of Artificial Intelligence. Topics include: Rule-based Expert Systems, Uncertainty Management, Fuzzy Logic, Fuzzy Inference Systems, Artificial Neural Networks and Evolutionary Programming. Prerequisite: CSIS 237 (F)

CSIS 490  Readings in Computer Science  Mim Cr. 1-Max Cr. 3

CSIS 499  Independent Study  Mim Cr. 1-Max Cr. 3
A course for upperclassmen who wish to work independently on a topic or problem in a computer science related area. A paper describing the project is required. Prerequisite: consent of instructor. (F, Sp, SS)

DANC 100  Dance Appreciation  Mim Cr. 3-Max Cr. 3
An introductory course which offers cross cultural comparisons of indigenous, traditional and classical dance forms from six continents. This course is designed to increase one's understanding and appreciation of dance as a fine art form and an integral part of cultural mores, a medium of cultural fusion, and a creation of individual artists. The course will emphasize the development of cultural forces which fuse African and Western dance traditions which have resulted in many of the American social dance forms of today. (F, Sp)

DANC 107  Social Dance  Mim Cr. 0.5-Max Cr. 0.5
An introductory social dance course to include waltz, foxtrot, swing, polka, rumba, salsa and cha cha-cha. Emphasis will be placed on rhythm, style and skill development. May be repeated for a total of two credits. (F, Sp)

DANC 110  Basic Jazz  Mim Cr. 0.5-Max Cr. 0.5
An introductory jazz dance course with emphasis on technique and style. May be repeated for a total of three credits. (F, Sp)
DANC 120  Fund Movement through Dance Mim Cr. 1-Max Cr. 1
An introductory course in movement fundamentals with emphasis on body awareness, rhythmic competency, coordination and alignment through basic dance skills in the technique of modern dance. May be repeated for a total of three credits. (F, Sp)

DANC 150  Dance Improvisation  Mim Cr. 1-Max Cr. 1
The use of movement improvisation as an introduction to structured form through group and individual problem solving. May be repeated for a total of three credits. (F)

DANC 224  Ballet I  Mim Cr. 1-Max Cr. 1
An introductory course in the theory and practice of classical ballet with emphasis on alignment, strength, coordination and flexibility. The class will introduce the students to elementary exercises designed to master the basic stance of the body, positions of the legs, feet, arms and head. May be repeated for a total of three credits. (F)

DANC 250  Dance Composition  Mim Cr. 2-Max Cr. 2
An introductory dance composition class designed to develop ones ability to choreograph in the modern idioms. Emphasis will be on identifying and expanding the individual's movement vocabulary and knowledge of compositional elements. May be repeated for a total of four credits. Prerequisites: DANC 120 and 150 or consent of instructor. (F)

DANC 310  Jazz Dance II  Mim Cr. 1-Max Cr. 1
An intermediate level study of the theory and practice of jazz and tap dance with an emphasis on increased strength, coordination and flexibility. Body isolation, center work and across the floor work will be an integral part of each class. May be repeated for a total of four credits, but only two credits may apply to the dance minor once. Prerequisite: DANC 110 or consent of instructor. (Sp)

DANC 389  Special Topics in Dance  Mim Cr. 1-Max Cr. 3
This course provides an opportunity for in-depth study of contemporary issues, programs or practices in dance and dance education. Depending upon the specific topics of study, the content of the course may focus on research findings, theoretical advances, practical applications, and theory as they affect dance as an art form or dance education within the schools. Because of its focus on contemporary issues the course may be appropriate for arts/dance education students in training and experienced teachers who desire in-depth training in a specific area. (F, Sp)

DANC 490  Readings in Dance  Mim Cr. 1-Max Cr. 3
This course is designed as a supplement to students' required work and allows the student opportunity for an in depth study of issues and/or problems in dance. The students will work
individually with a faculty member to plan, conduct, assess, and present research. Prerequisite: Consent of instructor. (F, W, Sp, SS)

DASC 120  Orientation to Dairy Science  Mim Cr. 1-Max Cr. 1
This course is designed to help students in the Dairy Science major identify career and educational objectives and develop a comprehensive strategic plan for meeting those objectives during their college careers. Elements of this plan include supporting course work, internships, career services, and extracurricular activities. The process of strategic planning is facilitated by classes, workshops, and beginning the development of a professional student portfolio. Major points of emphasis are business management, time management, and student contact with dairy industry professional(s). (F)

DASC 270  Internship I  Mim Cr. 2-Max Cr. 4
An additional off-campus occupational work experience for the student which involves full-time employment with a cooperating agency or firm. Prerequisites: 30 cr. and consent of the faculty coordinator. (F, Sp, SS)

DASC 306  Dairy Production  Mim Cr. 3-Max Cr. 3
Students will learn the principles of general production and management of the modern dairy enterprise. Topics include: industry trends, milk marketing, applied genetics and breeding programs, reproduction, dry cow management and nutrition, replacements, herd health, facilities, personnel issues, waste management, lactation, milking systems, and records systems. Prerequisites: ANSC 232,257. (F, Sp)

DASC 310  Advanced Dairy Cattle Eval  Mim Cr. 1-Max Cr. 1
Advanced training in dairy cattle judging techniques. Preparation for national judging competition. Weekend class attendance required. (F during first half of semester)

DASC 370  Internship II  Mim Cr. 2-Max Cr. 4
An additional off-campus occupational work experience for the student which involves full-time employment with a cooperating agency or firm. Prerequisites: ANSC 270 and consent of the faculty coordinator. (F, Sp, SS)

DASC 406  Advanced Dairy Management  Mim Cr. 3-Max Cr. 3
An advanced study of dairy herd management systems including milking and feeding arrangements, herd health, herd replacements, use of computer systems, personnel issues, and financial impact of management decisions. On-farm trouble shooting will be emphasized. Prerequisite: ANSC 306 (Sp)

DASC 436  Dairy Cattle Nutrition  Mim Cr. 3-Max Cr. 3
The course covers an in-depth examination of current nutritional concepts pertaining to dairy cattle. Scientific rationale for nutrient requirements, feedstuff evaluation and recommended feeding practices will be discussed along with integration of biological models with economic principles and practical applications. Students will gain extensive practice in sound ration formulation procedures, both manually and by computer. Prerequisites: AGBI 251, ANSC 306. (Sp)

DASC 485  Seminar: Dairy ScienceMim Cr. 1-Max Cr. 1
This is a writing intensive course. A comprehensive review and discussion of recent literature in the field of Dairy Science. Prerequisite: senior standing. Recommended that student has completed (or be currently enrolled) in a minimum of two of the following: ANSC 346,433, or 448. (F, Sp)

DASC 490  Independent Study  Mim Cr. 1-Max Cr. 3
DFT 151 Broadcast Performance I  Mim Cr. 3-Max Cr. 3
The course investigates the adaptation of the forms of speech to the broadcast media. Emphasis is placed on various radio/television performance skills. (F)

DFT 160 TV Studio Production  Mim Cr. 3-Max Cr. 3
The students will learn and perform all functions within the television studio, including directing, switching, audio, graphics, camera and related functions. Television writing techniques and formats, elementary engineering terminology and theory will be discussed. The role and function of each member of the production team will be discussed. Each Student will write, direct, and produce his/her own video production. (F)

DFT 200 Introduction to Film Studies  Mim Cr. 3-Max Cr. 3
This course is an introduction to film language, art, style, technology, and analysis. It provides an historical overview and background on film theory. Students will view and critique films showing a variety of styles and techniques. Co-listed as FILM 200. (F)

DFT 248 Cultures in Conflict (d)  Mim Cr. 3-Max Cr. 3
This course focuses on film as a medium which examines conflicts resulting from cultural differences. At the center of good narrative film structure is conflict. This conflict will be explored through the film's language content and persuasive qualities, as well as how it provokes audience reactions. Co-listed as FILM 248. (SP, alternate years)

DFT 260 Elec Field Production  Mim Cr. 3-Max Cr. 3
Students will examine, understand, and perform procedures, policies and practices applied to television field production. Students acquire skills and knowledge in all areas of EFP for television including preproduction tasks, lighting and shooting in the field and editing. Students will learn the theory and practice of directing/writing, producing commercials, public service announcements (PSA) and infomercials. (F, Sp)

DFT 360 Corporate Electronic Comm  Mim Cr. 3-Max Cr. 3
The course will examine the actual techniques used to create effective corporate videos and infomercials. All elements of pre-production, production, and post-production will be discussed and then performed by students. Discussions of current trends of teleconferencing and satellite communication will be included. Non-linear video editing will be discussed and explained. Prerequisite: DFT 260. Co-listed as FILM 360. (F, odd numbered years)

DFT 377 Practicum  Mim Cr. 1-Max Cr. 1
This is a directed studio experience in mass communication emphasizing the creative or research aspects of mass communication. May be retaken once. Prerequisite: consent of instructor. (F, Sp)

DFT 379 Internship in SCTA  Mim Cr. 3-Max Cr. 12
The Communication Studies and Theatre Arts internship is a program which places selected students in businesses, industries, or organizations to provide opportunities to practically apply their knowledge of and skill in speech, mass media, or theatre arts. Students may elect a 3-12 credit internship. This experience will be evaluated on a PASS/FAIL basis. Prerequisite: Junior or higher standing and permission of DFT internship supervisor. Students may count a total of 12 internship credits toward their degrees. (F, Sp, SS)

DFT 499 Independent Study/Research  Mim Cr. 1-Max Cr. 3
A given subject in communication studies, mass communication, and/or theatre arts will be pursued in-depth. Prerequisite: consent of instructor and department chair. (F, Sp)

ECON 100 Modern Economics  Mim Cr. 3-Max Cr. 3
This course provides students with an understanding of how to use basic economics concepts to analyze current social issues. Possible issues include poverty, unemployment, agriculture, discrimination, crime, pollution, education, health care, and third world development. The focus is
on issues rather than theory. May not be taken after receiving a C or better in Econ 201 or 202 or their equivalents unless permitted by the instructor. Also, may not be taken if you have taken Econ. 150. Students who have received an A or B in a high school economics course that is approved by the UW-RF Economics Department (River Falls, New Richmond and Rice Lake High Schools) can receive "test-out" credit for ECON 100 by earning a B or better in ECON 201 or 202 or their equivalents. (F and Sp)

ECON 201 Principles of Microeconomics  Mim Cr. 3-Max Cr. 3
Students will study the economic behavior of individual households and firms. Product markets, resource markets, market structures, and income distribution are examined. Prerequisite: Second semester freshman standing. (F, Sp)

ECON 202 Principles of Macroeconomics  Mim Cr. 3-Max Cr. 3
Students will study the operation of the economy as a whole and key indicators such as inflation, unemployment, national income accounting, money and banking, fiscal and monetary policies, and international economics are examined. Prerequisite: Second semester freshman standing. (F, Sp)

ECON 205 Quantitative Analysis  Mim Cr. 3-Max Cr. 3
The course examines application of certain quantitative techniques in economics and business. Selected topics are functions, graphs, systems of equations, matrix algebra, derivatives, optimization procedures and integration. Prerequisites: Must have completed MATH 146 and ECON 201. (F, Sp)

ECON 226 Introduction to Statistics  Mim Cr. 3-Max Cr. 3
Basic statistical concepts and methods as applied to business and economics are developed. Topics include: measures of location and variation, probability, probability distributions, sampling distributions, estimation and hypothesis testing. May not be taken for credit if MATH 226 has been taken. Prerequisite: MATH 146 or consent of instructor. (F, Sp)

ECON 301 Intermediate Micro  Mim Cr. 3-Max Cr. 3
This course is a study of price theory in a market economy. It provides in-depth study of the behavior of individual consumers, business firms, and resource owners in a free-enterprise economy. Prerequisites: Must have C or better in ECON 201, 202, and ECON 205 or MATH 156 or MATH 166. (F & SP)

ECON 305 Money & Banking  Mim Cr. 3-Max Cr. 3
Banking and other financial institutions, financial markets, monetary policy, and monetary theory will be examined. Prerequisites: ECON 201 and 202. (F)

ECON 324 Labor Economics  Mim Cr. 3-Max Cr. 3
This course examines the unique features of labor markets, wage and employment determination, labor market problems and issues, the macroeconomic implications of labor markets, the labor movement, unionization, the bargaining process, and the effects of the union movement. Prerequisites: ECON 201 and 202. (F)

ECON 326 Statistics for Econ & Bus  Mim Cr. 3-Max Cr. 3
This is a concentrated study of advanced statistical techniques with an emphasis on their applications to business and economic problems. Topics of interest include: hypothesis testing, analysis of variance, regression and correlation, time series analysis, nonparametric statistics and quality control. Prerequisites: Econ 201, 202 and a grade of C or better in Econ 226 or Math 226 (or equivalent of Introductory Statistics from other areas). Students should be familiar with using a computer spreadsheet, such as EXCEL. (F, SP)
ECON 332  Public Finance  Mim Cr. 3-Max Cr. 3
This course examines the role of government in the economic system. Emphasis is placed on the
analysis and evaluation of various government expenditure programs and the theories and
structure of taxation. The effects of the various government expenditure and tax policies on the
allocation of economic resources, production of goods and services, and the distribution of
income and wealth are also discussed. Prerequisites: ECON 201 and 202. Co-listed as POLS
332. (F or Sp)

ECON 340  Contemp Internation Trade (g)  Mim Cr. 3-Max Cr. 3
Students will learn why and how nations trade, and why and how people's welfare is influenced
by trade. Such issues as fairness in trade, job protection, environmental regulation and
international competitiveness, and industrial policy will be addressed and explored. Effectiveness
of such trade policies as tariffs, quotas, voluntary export restrictions, and more will be evaluated.
Pros and cons of regional trading arrangements such as NAFTA and European Economic
Integration, as well as the role of the World Trade Organization, will also be discussed.
Prerequisite: ECON 201. (F, not offered on a yearly basis)

ECON 379  Internship  Mim Cr. 2-Max Cr. 12
This course is designed to allow the economics major to earn credit from practical work
experience. The experience must be at a professional level and involve the application of
economic concepts or techniques to a real world environment. This course can only be taken on
a pass/fail basis. A maximum of 3 credits will count as electives for the economics major.
Prerequisites: Major in Economics, completion of ECON 201, 202, and 226 (or equivalent course
to Introduction to Statistics) with a grade of C+ or better and consent of department chair. (F, W,
SP, SS)

ECON 480  Senior Seminar  Mim Cr. 3-Max Cr. 3
This is a writing intensive course. Students will analyze and discuss selected economic theories
and issues. Writing and presentation of scholarly papers is expected. Prerequisites: ECON 301,
302, 326 and senior standing. With Instructors permission, ECON 302 may be taken concurrently
with ECON 480. (Each year, F or Sp)

ECON 499  Independent Study  Mim Cr. 1-Max Cr. 3
Students will pursue a given economic subject in depth. Prerequisite: consent of instructor. (F, Sp)

ECON 730  Managerial Statistics  Mim Cr. 3-Max Cr. 3
This course will teach students to solve a variety of business problems using statistical
techniques. Case studies will be used to model the application of statistics in evidenced based
management. Upon successful completion of this course, students will be able to apply
quantitative techniques in a variety of decision-making contexts. Prerequisite: Admission to the
MBA program. (F or Sp)

ENGL 100  Academic Reading and Writing  Mim Cr. 3-Max Cr. 3
Analytical and critical reading and writing are covered. Students will learn to comprehend,
interpret, and analyze oral, written, aural and visual communication; to effectively communicate
ideas related to a broad range of subjects; to express ideas in a variety of formats; and to use
MLA documentation. (F, Sp)

ENGL 101  Fresh Engl Interntl Students  Mim Cr. 3-Max Cr. 3
In lieu of English 100, English 101 fulfills the General Education requirement for students whose
native language IS NOT English.

ENGL 105  Lit & Human ExperienceMim Cr. 3-Max Cr. 3
A study of important human issues as they are expressed in literature: innocence and experience;
conformity and rebellion; men and women; dreams, obsessions, and realizations; aging and
death. The course will also provide students with an introduction to the major literary genres. Only ONE of the ENGL 105, 106, 107 class series is allowed in the HF category. (F, Sp).

ENGL 106 Intro to Literature Mim Cr. 3-Max Cr. 3
A study of the predominant literary genres of literature (fiction, poetry, and drama) to acquaint students with the forms and structures of this literature, emphasizing its historical and cultural context and universal themes. Only ONE of the ENGL 105, 106, 107 class series is allowed in the HF category. (F, Sp).

ENGL 107 Heroes in Literature Mim Cr. 3-Max Cr. 3
A study of the evolution and character of heroes from ancient times to the present. Only ONE of the ENGL 105, 106, 107 class series is allowed in the HF category. (F, Sp)

ENGL 20 Foundations of English Mim Cr. 3-Max Cr. 3

ENGL 200 Read Write Disciplines Mim Cr. 3-Max Cr. 3
Reading critically and writing persuasively are emphasized. Students will evaluate the stylistic, structural and substantive merits of what they read; they will synthesize disparate points of view in reaching judgments and constructing arguments; they will develop interpretive skills and employ various critical stances and techniques. Prerequisite: satisfactory score on the ENGL placement test or successful completion of ENGL 100. (F, Sp)

ENGL 205 Literature of War Mim Cr. 3-Max Cr. 3
This course focuses on the study of literature of war--fiction, drama, poetry, and nonfiction--from classical times to the present. National and individual responses to war situations will be reviewed and assessed to ascertain basic and changing premises and ethical standards, (F or Sp)

ENGL 208 Lit of Nat Am Exp (d) Mim Cr. 3-Max Cr. 3
The experience of Native Americans as expressed in their literature from creation stories and early speeches to contemporary writers will be introduced. The class will discuss these writers' thematic preoccupations with their own cultural heritage, the experience of "double consciousness," the clash of values, and racial/ethnic identity. Prerequisites: ENGL 100. (F or Sp)

ENGL 228 Lit of EJ (d) Mim Cr. 3-Max Cr. 3
A study of culturally diverse novelists, essayists, and poets who focus on the ways the human and natural environments are affected by environmental policies, economic practices, and political decisions. (F)

ENGL 230 Intl Short Fiction (g) Mim Cr. 3-Max Cr. 3
Students read and analyze short fiction by authors from a variety of cultures. Class discussion focuses on the readings' literary, cultural, and ethical aspects. It offers students the opportunity to compare other cultures with their own and consider the ethical implications of the stories. (SS)

ENGL 233 Introduction to Poetry Mim Cr. 3-Max Cr. 3
An introduction to the form, method, and richness of poetry. The course features a broad range of poetry from different periods and cultures. The emphasis falls on short poems, but longer forms will also be explored. Prerequisites: Completion of CW requirement. (F,Sp)

ENGL 234 Modern Novels (g) Mim Cr. 3-Max Cr. 3
students will read and analyze novels by authors from Africa, Asia, Europe, and the Western Hemisphere from the 20th and 21st centuries in order to develop and informed perspective on personal and societal issues as they are presented through multiple narrative styles and from a variety of philosophical, political, and cultural perspectives.
ENGL 250  Literature for Children  Mim Cr. 3-Max Cr. 3
Study of representative children's books, primarily picture story books and novels, and exploration of criteria for evaluating their quality and purpose. Prerequisite: sophomore standing. (F, Sp)

ENGL 251  Advanced Composition  Mim Cr. 3-Max Cr. 3
This course helps students become independent, effective, and eloquent writers who are able to use a variety of heuristics and processes appropriate to particular writing contexts and who can write original, interesting and readable prose. Prerequisites: Completion of CA requirement. (F, Sp)

ENGL 252  Multicultural Education  Mim Cr. 3-Max Cr. 3
Students will investigate the influence of race, ethnicity, gender, religion, exceptionality, language, and learning styles on language arts instructions. The selection of learning materials will focus on the multicultural literature and media, historical and current affairs that influence public education policies, and theories and practices of multicultural education in the United States. 25 hours of filed experience required for education majors and minors only. Prerequisite: TED 120. Materials fee required. (F)

ENGL 253  Intro Literary Studies  Mim Cr. 3-Max Cr. 3
Serves as perpetration for the undergraduate study of literature. Develops competency in methods of research and in the critical analysis of literature and promotes awareness of underlying critical assumptions--both in other critics and in student's own positions. Prerequisites: Completion of CA and/or co-requisite ENGL 251 or (consent of the instructor). (F,Sp)

ENGL 262  Creative Writing  Mim Cr. 3-Max Cr. 3
Extensive work in exercises and techniques of writing fiction, poetry, journals, and creative essays. Course emphasis falls in increasing understanding and appreciation, especially as a preparation for teaching. Prerequisite: Completion of CA requirement. (F)

ENGL 266  Business Writing  Mim Cr. 3-Max Cr. 3
Students will study the forms, strategies and styles of written business communication. Emphasis is placed on the process of writing letters and reports. Prerequisites: Completed the CA requirement. (F,Sp)

ENGL 270  Visual Rhetoric  Mim Cr. 3-Max Cr. 3
Students will develop both analytical and practical skills needed to create visually effective documents in both paper and digital media. The course teaches students to apply theoretically based document design to academic and workplace writing and to learn the design of visual language. Prerequisites: Completion of CA requirement. (F).

ENGL 279  Coop Education & Internship I  Mim Cr. 1-Max Cr. 1
An experience in which the student learns and applies basic professional skills by performing on-the-job tasks and using classroom knowledge in practical situations. Prerequisites: ENGL 200; sophomore standing, 2.5 or higher GPA; permission of English Department internship supervisor. (F, Sp,SS)

ENGL 306  Postcolonial Film and Lit (g)  Mim Cr. 3-Max Cr. 3
In this course, students will be introduced to the political, social and cultural issues and contexts that inform postcolonial studies. The course scope will be the films and writings of and about regions and nations whose histories are defined by colonial and anti-colonial histories, including Africa (especially Algeria, Senegal, the Congo, and Rwanda), the Caribbean (with special attention to Jamaica and Cuba), Australia, New Zealand, Ireland, Pakistan, and India; we may also consider Eastern Europe, South East Asia, or Latin America. (F,Sp)
ENGL 309  New Europe Film & Lit (g)  Mim Cr. 3-Max Cr. 3
Imagine going to sleep one night and waking to find your entire world discredited, with only an unclear dream of a better future. The course examines the film and literature of the "New (formerly Communist) Europe" and the trauma that this shock produced as it affected millions, including Americans. Prerequisite: completion of the CW requirement. (F)

ENGL 311  Intro to Lang & Linguistics  Mim Cr. 3-Max Cr. 3
This course makes an inquiry into the nature of language. It provides an introduction to language and its subfields: morphology, syntax, semantics, pragmatics, phonetics, and phonology. It also examines issues of language use in society and language acquisition. Prerequisite: junior standing or consent of instructor. (F)

ENGL 317  Modern East Asian Lit & Cin (g)  Mim Cr. 3-Max Cr. 3
This course introduces students to the significant cultural, social, political, and aesthetic developments in Modern East Asia through the study of major works of 20th and 21st century Chinese, Japanese, and Korean literature and film. We will also consider memoirs, writings of political theory, sociology, religion, and history.

ENGL 320  Structure of English  Mim Cr. 3-Max Cr. 3
This course introduces the study of language, language acquisition, and language learning, focusing upon English grammar and traditional, structural, and generative-transformational approaches to grammar. Includes an overview of linguistics and an exploration of the relationship between race/gender and language. Prerequisite: Junior standing. (F, Sp)

ENGL 321  English Lang: Hist & Culture  Mim Cr. 3-Max Cr. 3
Students will study the origins and development of the varieties of the English language from Anglo-Saxon to present forms of English as a world language. Methods of study are: 1) a structural approach to language forms; and 2) a socio-historical approach to problems of meaning and communication arising from language change and variety. Prerequisite: Junior standing or consent of instructor. (F, Sp)

ENGL 324  Survey of Amer Literature I  Mim Cr. 3-Max Cr. 3
This is a writing intensive course. This course focuses on the chief American writers who illustrate the development of American thought, life, and culture. Prerequisites: Junior standing and completion of CA requirement, ENGL 253 (or consent of instructor). (F, Sp).

ENGL 331  Survey of English Lit I  Mim Cr. 3-Max Cr. 3
This is a writing intensive course. The course is designed as a survey of English poetry, prose, and drama from the Anglo-Saxon period to the end of the 18th century. Prerequisite: Junior standing and completion of one of the following: CA requirement; ENGL 253 (or permission of the instructor). (F)

ENGL 360  Theory & Methodology of TESOL  Mim Cr. 3-Max Cr. 3
Theory and Methodology of TESOL (Teaching English to Speakers of Other Languages) will introduce students to major trends in language teaching such as audiolingualism, Communicative Language Teaching, etc. In addition to the five skill areas--grammar, speaking, listening, reading, and writing--the course will deal with bilingualism, placement and diagnostic testing, and variables that influence language learning. 15 hours of field experience is required for TESOL education majors. Prerequisite: junior standing. (F)

ENGL 361  Composition Theory  Mim Cr. 3-Max Cr. 3
Students will study the theories of the composing process in relation to research. Significant features of represented theories are practiced to develop understandings and skills. Prerequisite: Junior standing or consent of instructor. (F)
ENGL 367  Technical Writing  Mim Cr. 3-Max Cr. 3
Students will study the language, methods, and formats for communicating technical information. Prerequisites: Completion of the CA requirement. (Sp)

ENGL 369  Writing Fiction  Mim Cr. 3-Max Cr. 3
This course builds on elements of point of view, character development, and structure introduced in 262. The course will deal with various techniques in building settings, creating characters, writing dialogue and plot. Students will conclude with long writing projects of their own design. Prerequisite: ENGL 251 and 262; junior standing. (As offered)

ENGL 372  Pract:Peer Tutor&Writ Inst  Mim Cr. 3-Max Cr. 3
Directed experience in tutoring to help students improve their written work and improve their general level of writing skill. This course combines lecture/discussion of relevant theories of composing and tutorial strategies with weekly application through individual and small-group sessions in the Writing Center. Pre-requisites: ENGL 200 AND 2 faculty recommendations AND permission of instructor. (F)

ENGL 374  Cyberliteracy  Mim Cr. 3-Max Cr. 3
This course examines cyberliteracy from an ethical perspective focusing on community and culture while assisting students in publishing online texts. The course focuses on skills and knowledge demanded by online communities and cultures so students understand literacy in those contexts and can function as ethical and contributing members of those communities. Prerequisite: Completion of CA requirement.

ENGL 379  Coop Education & Intern II  Mim Cr. 2-Max Cr. 6
A short-term, apprenticeship (usually lasting for one semester or summer) with a business or government organization. The student learns to perform the tasks of a regular employee, applying theoretical knowledge in communication and research to practical situations. In addition, the student learns about career opportunities open to English majors. No more than 3 credits of 279 and 379 combined can be distributed as elective credits in the English major and Professional Writing minor. Additional credits can be used as electives. Prerequisites: Junior or higher standing; 2.5 or higher GPA; permission of English Department internship supervisor. (F, SP, SS)

ENGL 382  Writing Workshop  Mim Cr. 3-Max Cr. 3
This course follows a workshop format in which writers present their work and are given peer and teacher input. The class gives students the freedom to experiment with new techniques and content as well as to develop old and new projects. Prerequisite: Any of the following: ENGL 368, 369, or 370. (F, Sp, SS)

ENGL 432  Contemporary Amer Lit  Mim Cr. 3-Max Cr. 3
Study of a number of American writers of fiction, poetry, and drama from 1945 to the present, with emphasis on variety in style and subject matter. Prerequisites: completion of general studies humanities/literature requirements and junior standing, ENGL 325 or consent of instructor. (alternate years)

ENGL 444  Major Authors  Mim Cr. 3-Max Cr. 3
This course will focus on the creative works of one or two authors as well as the biographical, social, and critical contents of these works. Prerequisite: ENGL 253 or consent of the instructor. (offered on student request)

ENGL 499  Independent Study  Mim Cr. 1-Max Cr. 3
Independent study is restricted to junior and senior majors and minors unless permission for an exception is granted by the chairperson of the department. Prerequisite: junior or senior English major or minor. (F, Sp)
ENGL 511 Intro to Lang & Linguistics Mim Cr. 3-Max Cr. 3
This course makes an inquiry into the nature of language. It provides an introduction to language and its subfields: morphology, syntax, semantics, pragmatics, phonetics, and phonology. It also examines issues of language use in society and language acquisition. (F)

ENGL 520 Structure of English Mim Cr. 3-Max Cr. 3
This course introduces the study of language, language acquisition, and language learning, focusing upon English grammar and traditional, structural, and generative-transformational approaches to grammar. Includes an overview of linguistics and an exploration of the relationship between race/gender and language. (F, Sp)

ENGL 521 English Lang: Hist & Culture Mim Cr. 3-Max Cr. 3
Students will study the origins and development of the varieties of the English language from Anglo-Saxon to present forms of English as a world language. Methods of study are: 1) a structural approach to language forms; and 2) a socio-historical approach to problems of meaning and communication rising from language change and variety. (F, Sp)

ENGL 560 Theory/Methodology TESOL Mim Cr. 3-Max Cr. 3
Theory and Methodology of TESOL (Teaching English to Speakers of Other Languages) will introduce students to major trends in language teaching such as audiolingualism, Communicative Language Teaching, etc. In addition to the five skill areas—grammar, speaking, listening, reading, and writing—the course will deal with bilingualism, placement and diagnostic testing, and variables that influence language learning. 15 hours of field experience is required for TESOL education majors. (F)

ENGL 701 Write/Read/Research TESL Mim Cr. 3-Max Cr. 3
ENGL 701 focuses upon reading, writing, and research skills. Students will practice research skills, write summaries and evaluations, produce a review of literature, practice field research, create a lesson plan and/or syllabus, and create a proposal for use in ENGL 793 - Plan B Paper/Project or ENGL 799 - Thesis.

ENGL 798 Independent Research Mim Cr. 1-Max Cr. 3

ENGL 99 SupplCritReadWritThnk Mim Cr. 1-Max Cr. 1
This course supplements ENGL 100 for eligible students and provides additional assistance in critical reading, writing, and thinking techniques for success in future classes. Prerequisite: English Placement Test (WEPT) score of 340-350 and concurrent registration in designated sections of ENGL 100. (F)

ESL 101 Low-Intermediate Reading I Mim Cr. 3-Max Cr. 3
In this course, students will develop reading strategies to improve comprehension skills and fluency. Course content emphasizes meaning-focused vocabulary instruction and developing critical thinking skills. Students will work with course materials, authentic texts, and technology. Students will choose materials for individual reading projects. (F) Prereq: English Language Proficiency Placement Test

ESL 111 Low-Intermediate Writing I Mim Cr. 3-Max Cr. 3
In this course, students are introduced to the basic elements of academic writing. Course content focuses on sentence structure, vocabulary development, mechanics, and integrated grammar. Students will learn a process writing approach and write for a variety of purposes. (F) Prereq: English Language Proficiency Placement Test

ESL 121 Low-Int Speak-Listen I Mim Cr. 3-Max Cr. 3
This performance class focuses on developing students' oral communication skills, including their ability to make simple oral presentations, retell simple stories, participate in group discussions, and identify main ideas and factual information in level-appropriate listening passages. Students
will develop critical thinking skills through making inferences and drawing conclusions, comparing and contrasting, and proposing explanations. (F) Prereq: English Language Proficiency Placement Test

**ESL 141 Grammar (Low-Intermediate) I**  Mim Cr. 3-Max Cr. 3
Students improve their abilities to comprehend, produce and internalize basic grammatical rules and structures, such as simple verb tenses, reflexive and reciprocal pronouns, phrasal verbs, time clauses, count and non-count nouns, and compound sentences. Students practice structures through oral and written exercises in controlled and open-ended practice. (F) Prereq: English Language Proficiency Placement Test

**ESL 201 Intermediate Reading I**  Mim Cr. 3-Max Cr. 3
In this course students will continue to develop academic reading abilities including text on contemporary academic and literary topics with an emphasis on vocabulary building and the enhancement of critical reading skills. Students will work from textbook readings, on-line sources, and full-length books and/or short stories. (F) Prereq: English Language Proficiency Placement Test

**ESL 211 Intermediate Writing I**  Mim Cr. 3-Max Cr. 3
In this course, students will learn the basic elements of writing effective academic paragraphs. Students will review English sentence structure and learn to write paragraphs for various purposes. Course content focuses on a writing process approach and integrated grammar instruction. (F) Prereq: English Language Proficiency Placement Test

**ESL 221 Int Speak-Listen I**  Mim Cr. 3-Max Cr. 3
This performance class focuses on developing students' oral communication skills, including their ability to make simple oral presentations, retell simple stories, participate in group discussions on various academic topics, and identify main ideas and factual information in level-appropriate listening passages. Students will learn to recognize lecture language, perform effective note-taking, and express ideas and opinions. (F) Prereq: English Language Proficiency Placement Test

**ESL 241 Grammar (Int) III**  Mim Cr. 3-Max Cr. 3
Students review basic structures and acquire more complex structures, such as perfect and progressive aspect, modal verbs, phrasal verbs and adjective sequencing. Focus is on accuracy and fluency, and meaningful use of structures in context. A special focus is given to comparing present/past/future in simple, perfect and progressive aspects, as well as negative statements. (F) Prereq: English Language Proficiency Placement Test

**ESL 261 College Vocabulary I**  Mim Cr. 2-Max Cr. 2
In this content-based course, students will expand their academic vocabulary and their skills as vocabulary learners. Course content focuses on learning the meaning, pronunciation, spelling, uses, and word families of high-frequency words. (F) Prereq: English Language Proficiency Placement Test

**ESL 301 Advanced Reading I**  Mim Cr. 3-Max Cr. 3
In this course, students will develop reading strategies to improve comprehension skills, fluency, and speed. Additionally, students will expand their academic vocabulary and critical thinking skills. Students will work with both non-fiction and fiction texts from a variety of genres and academic disciplines. (F) Prereq: English Language Proficiency Placement Test

**ESL 311 Research Writing**  Mim Cr. 3-Max Cr. 3
In this course students will continue to develop research-writing skills. Course content emphasizes the development of vocabulary and writing skills necessary to conduct research and incorporate it into written texts. Grammar instruction is integrated into the writing assignments.
Students will produce research papers, as well as a reflective portfolio. (F) Prereq: English Language Proficiency Placement Test

ESL 321 Adv Oral Comm I Mim Cr. 3-Max Cr. 3
This performance class focuses on developing students’ listening comprehension, summarizing, and presentation skills. Students will identify main ideas and specific details of recorded passages on academic and general interest topics; take notes while listening and summarize information orally; produce oral summaries of written material; and develop an ability to support opinions, explain in detail, and hypothesize. (F) Prereq: English Language Proficiency Placement Test

ESL 341 Academic Grammar V Mim Cr. 3-Max Cr. 3
Advanced students are prepared for college level work in their core and major classes. Focus is on accuracy and fluency and meaningful use of structures in context, in various types of discourse, both in speaking and writing. A special focus is given to complex sentences, modal and phrasal verbs, gerunds and infinitives, and active and passive voice. (F) Prereq: English Language Proficiency Placement Test

ESL 351 Pronouncing Amer Engl I Mim Cr. 2-Max Cr. 2
This course covers those features of English pronunciation that contribute the most to intelligibility - rhythm, stress, and intonation. Students will focus on individual speech sounds that carry important grammatical meaning, such as the plural "s" for nouns and past-tense "d" for verbs; word stress patterns and sentence focus; and choosing and emphasizing focus words. (F) Prereq: English Language Proficiency Placement Test

ESL 361 Academic Vocabulary I Mim Cr. 2-Max Cr. 2
In this content-based course, students will develop mastery of the academic word list. Course content focuses on analyzing the meaning and form of words. Students will strengthen vocabulary-learning strategies and engage in academic and fiction reading activities. (F) Pre-req: English Language Proficiency Placement Test

ESM 105 Intro to Environ Studies Mim Cr. 3-Max Cr. 3
This course presents an overview of the interrelationships between humans and the environment. The material presented in the first one-third of the course focuses on important ecological concepts. The remainder of the course deals with human influence on the environment. The ecological concepts are used throughout to identify, understand, and provide a basis for proposing possible solutions to contemporary environmental problems. Overall, this course will provide the student with a better understanding of how humans can more positively affect the environment in which they live. (F, Sp)

ESM 109 Intro to Forestry Mim Cr. 2-Max Cr. 2
The course introduces the science and practice of forestry to students with little or no previous knowledge of the subject. The material presented will provide an overview of forestry so as to inform the student of basic concepts, terminology, practices, issues and opportunities. (F, Sp)

ESM 151 Int Land Use Theory&Prac Mim Cr. 3-Max Cr. 3
This course introduces land use planning history, as well as current theories and methods. Important physical, natural, and spatial components will be included by incorporating a capability analysis approach to determine proper development options based on site characteristics. Rural and urban development patterns are studied along with local land use controls, including zoning ordinances and subdivision regulations. (F, Sp)

ESM 220 Env Sust:Theory/Issues&Mngt Mim Cr. 3-Max Cr. 3
This course presents an essential foundation for critical thinking and professional development in the environmental science and management field. The course explores the broad spectrum of philosophical, historical, and technical issues pertaining to the management of natural resources
and the people using those resources in a sustainable manner. Selective topics will include a critique of professionalism, sustainable development, environmental ethics, biodiversity, environmental quality standards, risk management, cost/benefit analysis, carrying capacity, limits of acceptable change, and ecosystem management. It will also focus on administrative structures currently in place for selecting the appropriate management responses necessary to address the complexity of environmental and social circumstances faced by governmental and non-governmental agencies. Prerequisite: ESM 105 and 151, or consent of instructor. (F)

ESM 251 Community Decision-making Mim Cr. 3-Max Cr. 3
This course prepares students to understand and integrate local knowledge and values into the public decision-making process. Students will learn to design and implement methods and techniques that inform the public, obtain feedback from the public, analyze that feedback, and make decisions through an inclusive and ethical process. (F)

ESM 270 Internship I Mim Cr. 2-Max Cr. 4
This course entails an off-campus occupational work experience for the student. It involves full-time or part-time employment with a cooperating agency or firm to enhance career development and placement. Prerequisites: 30 cr. and consent of director and faculty coordinator. (F, Sp, SS)

ESM 300 Environmental Education Mim Cr. 3-Max Cr. 3
This course is designed to meet the certification requirement for teacher education candidates as specified by the state of Wisconsin Department of Public Instruction Environmental Education rule. The course will investigate the following environmental issues: the ecosystem, population, food production, energy, natural resource depletion, land use and misuse, and sources of environmental impact. Teaching methodologies will be presented to incorporate environmental content into the curriculum. Field trips required. Co-listed as GEOG 300/500. Special course fee required. Prerequisites: Must be admitted to TED. (F, Sp, SS)

ESM 303 Environmental Policies &Admin Mim Cr. 3-Max Cr. 3
This course provides in-depth analyses of natural resource and land use planning policies and their formulation at the various levels of government. The historical development and current framework of public policy are investigated and specific foundational legislation critiqued. Prerequisite: ESM 151. (F)

ESM 343 Woodlot Management Mim Cr. 3-Max Cr. 3
This course provides the student with the basic information necessary to manage a woodlot. The primary emphasis is on maximizing timber production. Other concerns such as wildlife, aesthetics, water resource protection and recreation are also considered. Topics in this course include: measuring a woodlot, treatments to improve woodlot productivity, government programs to assist forest landowners, timber sales and development of a management plan. The labs involve visiting a variety of different woodlot situations to illustrate and apply concepts presented in class. Prerequisite: ESM 109 or consent of instructor. (F)

ESM 360 Hydrology & Water Quality Mim Cr. 4-Max Cr. 4
The course is a study of the hydrologic cycle with emphasis on precipitation measurement and analysis, estimation and prediction of surface runoff, evaporation and evapotranspiration processes, and storage and movement of surface water, soil water and groundwater. Role of lakes and wetlands in the hydrologic cycle is discussed. Impact of point and nonpoint sources on surface water and ground water quality are considered. (F, Sp)

ESM 370 Internship II Mim Cr. 2-Max Cr. 4
An additional off-campus occupational work experience for the student. Involves full-time or part-time employment with a cooperating agency or firm. Prerequisites: Ag. 270 and consent of director and faculty coordinator. (F, Sp, SS)
ESM 378  Semester Abroad Research  Mim Cr. 6-Max Cr. 6
The research component of the Semester Abroad program. A semester of directed research in a
European country. Taken in conjunction with International Studies 377/577. Prerequisites:
participation in the Spring Semester Abroad orientation seminar; 2.25 GPA; junior or senior
standing.(F)

ESM 412  Fate & Transport  Mim Cr. 3-Max Cr. 3
The course includes study of the physical and chemical behavior of environmental contaminants,
the governing principles of contaminant migration and the impacts of contaminants on major
environmental media: surface waters, ground waters, soil and the atmosphere. Topics will also
include primary sources of contamination as well as human health and economic impacts.
Prerequisites ESM 105, CHEM 122 or 112/117, BIOL 100 or 150, MATH 147 or 166. A course in
statistics is suggested.

ESM 445  Land Use & Sustain Ag Law  Mim Cr. 3-Max Cr. 3
This course prepares students to understand and apply knowledge of: governmental institutions
that create laws; property law principles; the current legal trends in public vs. private property
rights; and, legal research and analysis so that students can conduct and apply their own
research/analysis pertaining to land use planning and to sustainable agriculture. Prerequisites:
AGEC 230 or ESM 303 or consent of instructor. (Fall of odd-numbered years)

ESM 485  Sem: Resource Management  Mim Cr. 1-Max Cr. 1
This is a writing intensive course. This course provides resource management majors the
opportunities to conceive, research, organize, and communicate their findings in both a
technically written report and formal seminar presentation. Employment preparation activities,
including resume writing and interviewing skills development will be incorporated. Prerequisite:
Senior standing. (F, Sp)

ESM 490  Independent Study  Mim Cr. 1-Max Cr. 3
Students will pursue independent field problems, laboratory work or library research.
Prerequisites: junior or senior standing and consent of instructor. (F, Sp)

ESM 500  Environmental Education  Mim Cr. 3-Max Cr. 3
This course is designed to meet the certification requirement for teacher education candidates as
specified by the State of Wisconsin Department of Public Instruction Environmental Education
rule. The course will investigate the following environmental issues: the ecosystem, population,
food production, energy, natural resource depletion, land use and misuse and sources of
environmental impact. Teaching methodologies will be presented to incorporate environmental
content into the curriculum. Field trips required. Also as BIOL 500 and ESM 500. Prerequisite:
TED 211 or 212 or consent of instructor. Special course fee required.

EXC 205  China: Society & Culture  Mim Cr. 3-Max Cr. 3
This course explores topics related to intercultural communication, incrementally building a broad
foundation of exposure, awareness, and understanding of culture in general, and specifically
Chinese daily life, that will serve as a platform for further exploration and learning about China
and global citizenship. F and Sp only through the Experience China program.

EXC 310  China: Ancient to Modern  Mim Cr. 3-Max Cr. 3
This course will utilize an interdisciplinary approach to build a deep understanding of China as an
ancient country and a modern day geopolitical and economic force by understanding its history,
geography, government & politics, ethnic compositions, arts, and more. F and Sp only through
the Experience China program.

EXSS 161  Intro to Health & Human Perf  Mim Cr. 3-Max Cr. 3
The purpose of this course is to serve as an introduction to the professions related to health and
human performance. The course provides an overview of and introduction to the history and
philosophical nature of the profession: scientific and scholarly disciplines; career exploration and professional development; personal fitness, health and skill assessment; and departmental procedures, policies and expectations. (F, Sp)

EXSS 266 Aerobic Exercise Leadership Mim Cr. 2-Max Cr. 2
This course will introduce the theoretical and practical bases of aerobic exercise leadership and prescriptions for healthy individuals. Discussion will include leadership skills across several exercise domains for individuals, groups and those with controlled disease. Prerequisite: none (Sp)

EXSS 271 Practicum I Mim Cr. 1-Max Cr. 1
This course is designed to provide initial experiences in a variety of job settings including sport industry, health clubs, fitness programs, recreation programs, camp programs, hospitals and school settings. The purpose is to allow students to gain a sense of direction for future study and internships. Prerequisites: Health & Human Performance major, P ED 161, and consent of the instructor. (F, W, Sp, SS)

EXSS 366 Exercise Physiology Mim Cr. 3-Max Cr. 3
The purpose of this course is to provide future physical and health educators with the knowledge of how the body's structures and functions respond to acute and chronic bouts of exercise. Emphasis is placed on the relationship between regular physical activity and general health. Prerequisites: HEAL 262 or 263 or BIOL 341. (F, Sp)

EXSS 450 Sport, Fitness & Rec Mngt Mim Cr. 3-Max Cr. 3
Basic principles and practices of developing and administering the physical education, athletic and sport management programs. Course will primarily focus on administrative theories, principles, financial management, legal liability, risk management, facility management and planning, public relations, and leadership. (F)

EXSS 465 Strength & Conditioning Mim Cr. 3-Max Cr. 3
This course will focus on fundamentals of resistance training and the application of scientific theory on the design of strength and conditioning programs, movement analysis, including modes of training, periodization, plyometrics and age and gender considerations. Prerequisite: HEAL 366 or HEAL 262 and PE 131 or consent of instructor. (F, Sp)

EXSS 466 Ex. Testing & Prescrip. Mim Cr. 3-Max Cr. 3
This course will introduce the theoretical basis of exercise test administration including program design, exercise test protocols, electrocardiography and exercise prescriptions for healthy and diseased populations. Risk stratification and establishing an exercise plan based on exercise testing results will be discussed. Prerequisite: HEAL 366. (F)

EXSS 471 Practicum II Mim Cr. 1-Max Cr. 12
A semester of field experience in an area related to Health and Human Performance under the guidance of an experienced supervisor. Fifty hours of field experience are required for each credit. Prerequisites: junior/senior standing Health and Human Performance major and Consent of Instructor. (F, W, Sp, SS)

EXSS 701 Adv Physiology of Exer Mim Cr. 3-Max Cr. 3
An integration of the advanced concepts and relevant scientific information surrounding human physiology during exercise. Class material will focus on metabolism and energy transfer, along with cardiovascular, endocrine, respiratory, neural, and muscular systems adaptations to acute and chronic exercise. Prerequisite: Consent of the instructor. (F)
EXSS 705 Nutrition in H & HP Mim Cr. 3-Max Cr. 3
An integration of the qualitative and quantitative applications of the dynamics of human digestion and nutrition, clinical health and weight issues and exercise training responsiveness. Prerequisite: EXSS 701 (F)

EXSS 710 Stat Methods in HP Mim Cr. 3-Max Cr. 3
The purpose of this course is to introduce the concepts of measurement and research design in human performance studies. Emphasis will be placed on descriptive and inferential statistics, applied and theoretical research and validity and reliability techniques. Prerequisite: Consent of the instructor. (F)

EXSS 793 Plan B Paper Mim Cr. 1-Max Cr. 2
Manuscript is oriented toward the use of the related literature in the formulation and writing of the graduate student's chosen topic. Prerequisite: Consent of the instructor. (F, Sp, SS)

EXSS 799 Thesis Mim Cr. 1-Max Cr. 6
Scholarly investigation of original research conducted by the graduate student. Pre-requisite: Consent of instructor. (F, Sp, SS)

FDSC 110 The Science of Food Mim Cr. 3-Max Cr. 3
Science of Food offers students unique opportunities to learn where their food supply comes from, how the food is produced and how consumption is met on a global basis. Applying basic science principles to the production of food will enhance student's ability to better understand the phenomena of food production. (F, Sp)

FDSC 113 Intro to Food Science Lab Mim Cr. 1-Max Cr. 1
A laboratory study of common methods of food preservation, chemical preservation, canning, freezing, dehydration, packaging and sensory evaluation. Laboratory manual required. (F, Sp)

FDSC 270 Internship I Mim Cr. 2-Max Cr. 4
A full-time occupational work experience with a cooperating agency or firm. Prerequisites: 30 cr. and consent of the faculty coordinator. (F, Sp, SS)

FDSC 271 International Internship Mim Cr. 4-Max Cr. 4
An international work experience at a professional level. Participants will attend 6-8 scheduled orientation meetings during the semester prior to the work experience. Special course fees required. Prerequisites: 30 semester credits. (F, Sp, SS)

FDSC 302 Dairy Manufacturing II Mim Cr. 3-Max Cr. 3
This course includes an integration of chemical, microbiological and physical principles involved in the manufacture and storage of cheeses and cultured products. Prerequisite: FDSC 202. (Sp)

FDSC 313 Food Processing Lab Mim Cr. 1-Max Cr. 1
A laboratory course that teaches the food processing principles and techniques, using pilot plant equipment. The students will complete a laboratory project that will include computer-based literature search and written reports. Co-requisite: FDSC 312. (F)

FDSC 335 Food Microbiology Mim Cr. 4-Max Cr. 4
Microbiological aspects of preservation, processing, quality, safety and shelf-life of foods will be studied. Methods for isolation, detection, characterization and quantitative determinations of microbial populations in foods and the food plant environment as well as factors influencing growth and survival of spoilage and pathogenic organisms in foods will be examined. Prerequisite: AGBI 251 or CHEM 361 and BIOL 324. (F, Sp)
FDSC 370  Internship II  Mim Cr. 2-Max Cr. 4
An additional occupational work experience for the student which involves full-time employment
with a cooperating agency or firm. Prerequisites: FDSC 270 and consent of the faculty
coordinator. (F, Sp, SS)

FDSC 385  Seminar: Food Science  Mim Cr. 1-Max Cr. 1
The seminar sequence provides a unique opportunity for Food Science students to practice
professional communication and to gain exposure to new concepts and developments in the field
through presentations by peers, faculty and outside speakers. (F, Sp)

FDSC 485  Seminar: Food Science  Mim Cr. 1-Max Cr. 1
The seminar sequence provides a unique opportunity for Food Science students to practice
professional communication and to gain exposure to new concepts and developments in the field
through presentations by peers, faculty and outside speakers. (F, Sp)

FDSC 490  Special Prob: Food Science  Mim Cr. 1-Max Cr. 3
Students will study problems in areas of food science and technology. Prerequisites: junior or
senior standing and/or consent of instructor. (F, Sp, SS)

FILM 160  TV Studio Production  Mim Cr. 3-Max Cr. 3
The students will learn and perform all functions within the television studio, including directing,
switching, audio, graphics, camera and related functions. Television writing techniques and
formats, elementary engineering terminology and theory will be discussed. The role and function
of each member of the production team will be discussed. Each Student will write, direct, and
produce his/her own video production. (F)

FILM 200  Introduction to Film Studies  Mim Cr. 3-Max Cr. 3
This course is an introduction to film language, art, style, technology, and analysis. It provides an
historical overview and background on film theory. Students will view and critique films showing a
variety of styles and techniques. Co-listed as FILM 200. (F)

FILM 248  Cultures in Conflict  Mim Cr. 3-Max Cr. 3
This course focuses on film as a medium which examines conflicts resulting from cultural
differences. At the center of good narrative film structure is conflict. This conflict will be explored
through the film's language content and persuasive qualities, as well as how it provokes audience
reactions. Co-listed as FILM 248. (SP, alternate years)

FILM 260  Elec Field Production  Mim Cr. 3-Max Cr. 3
Students will examine, understand, and perform procedures, policies and practices applied to
television field production. Students acquire skills and knowledge in all areas of EFP for
television including preproduction tasks, lighting and shooting in the filed and editing. Students
will learn the theory and practice of directing/writing, producing commercials, public service
announcements (PSA) and informercials. (F, Sp)

FILM 306  Postcolonial Film and Lit  Mim Cr. 3-Max Cr. 3
In this course, students will be introduced to the political, social and cultural issues and contexts
that inform postcolonial studies. The course scope will be the films and writings of and about
regions and nations whose histories are defined by colonial and anti-colonial histories, including
Africa (especially Algeria, Senegal, the Congo, and Rwanda), the Caribbean (with special
attention to Jamaica and Cuba), Australia, New Zealand, Ireland, Pakistan, and India; we may
also consider Eastern Europe, South East Asia, or Latin America. (F, Sp)

FILM 309  New Europe Film & Lit  Mim Cr. 3-Max Cr. 3
Imagine going to sleep one night and waking to find your entire world discredited, with only an
unclear dream of a better future. The course examines the film and literature of the "New
(formerly Communist) Europe” and the trauma that this shock produced as it affected millions, including Americans. Prerequisite: completion of the CW requirement. (F)

FILM 317     Modrn East Asian Lit & Cin(g)     Mim Cr. 3-Max Cr. 3
This course introduces students to the significant cultural, social, political, and aesthetic developments in Modern East Asia through the study of major works of 20th and 21st century Chinese, Japanese, and Korean literature and film. We will also consider memoirs, writings of political theory, sociology, religion, and history.

FILM 360     Corporate Electronic Comm     Mim Cr. 3-Max Cr. 3
The course will examine the actual techniques used to create effective corporate videos and infomercials. All elements of pre-production, production, and post-production will be discussed and then performed by students. Discussions of current trends of teleconferencing and satellite communication will be included. Non-linear video editing will be discussed and explained. Prerequisite: DFT 260. Co-listed as FILM 360. (F, odd numbered years)

FILM 495     Independent Study     Mim Cr. 1-Max Cr. 3
The course allows an exploration of a particular area of Film Studies from examining film as an art form or industry, to the cultural popularity of this influential communication medium. Prerequisites: Student must be a Film Studies Minor and obtain the consent of the program coordinator for the Film Studies minor.

FILM 499     DirectedResearchin Film     Mim Cr. 3-Max Cr. 3
This course offers directed study of a film topic as a culminating project for the minor, to be approved by the Film Studies Committee and supervised by a designated faculty member of the committee and (if necessary) by a selected faculty member in the filed of study. A final research paper (15-20 pages) will result from the student's directed study. The student contracting the project must secure an advisor and create a research plan prior to enrolling in the course. Prerequisites: Junior or Senior Film Studies minor and consent of the Film Studies Coordinator. (F, Sp).

FINC 345     Managerial Finance     Mim Cr. 3-Max Cr. 3
This course reviews the acquisition, allocation, and management of resources within a firm. Topics include financial statement analysis, financial markets and institutions, investment securities, time value of money, cost of capital, capital budgeting, and financial forecasting. Prerequisites: 1) Admission to College of Business and Economics. 2) or have ECON 201, 202 and ECON 226 or Math 226 or Psyc 201 and ACCT 201 or ACCT 231 and 232 and CSIS 215 and be a Bus. Ad. Minor. (F, Sp, SS)

FINC 347     Financial Institutions     Mim Cr. 3-Max Cr. 3
This course explores the similarities and differences among financial institutions: banks, savings and loans, credit unions, finance companies, insurance companies, mutual funds, and pension funds. They are reviewed in terms of their utilization of financial markets, regulatory aspects, and financial performance. Prerequisite: FINC 345.

FINC 348     Investments     Mim Cr. 3-Max Cr. 3
Topic includes: review of types of investments; operation of security markets; valuation of common stock, bonds, and preferred stock; options, futures, and mutual funds. Prerequisite: FINC 345.

FINC 350     Real Estate     Mim Cr. 3-Max Cr. 3
Real estate is reviewed from primarily a residential property perspective. Topics considered include law of agency, real estate contracts, real estate finance, property appraisal, fair housing laws, professional ethics, and environmental issues. Real estate investment and property management will also be reviewed. Prerequisite: FINC 345
FINC 355  Multinational Finc Mgmt Mim Cr. 3-Max Cr. 3
This course provides an in-depth review of financial management decisions faced by multinational firms in the international context. Prerequisites: FINC 345. (Sp).

FINC 379  Internship in FINC Mim Cr. 3-Max Cr. 6
Managerial level work experience in the financial field. Maximum of 3-credit can be used as finance support electives. Prerequisites: FINC 345 and at least one of the following: FINC 347, 348, and 446. Must have a grade of "C" or better in each and the consent of the department chair and the CBE internship coordinator. (F, Sp, SS)

FINC 446  Intermediate Managerial Finc Mim Cr. 3-Max Cr. 3
This is a writing intensive course. An in-depth critical review of such finance topics as capital budgeting, capital structure theory, cost of capital, working capital management, mergers, and leasing. Additionally, theory will be applied with the case method. Prerequisites: FINC 345.

FINC 499  Independent Study Mim Cr. 1-Max Cr. 3
Independent study is an opportunity for upper class students to select a project in an area of business and work independently with an assigned professor. Open only to business administration majors. Prerequisites: a 3.0 GPA in accounting and business courses, upper class standing and consent of department chair.

FINC 706  Financial Management Mim Cr. 3-Max Cr. 3
This course covers the modern theory and practice of financial management. Topics covered include: Application of financial ratio analysis, review of the time value of money, basic principles of risk and return, financial forecasting, debt and equity valuation, capital budgeting and cost of capital, capital structure and dividend theory, and firm valuation from a value-based management and corporate governance perspective. Prerequisite: Admission to the MBA program.

FREN 101  Beginning French I Mim Cr. 4-Max Cr. 4
An introduction to French through conversation, writing practice and cultural material. 101 presumes no previous study of the language. (F)

FREN 201  Intermediate French I Mim Cr. 3-Max Cr. 3
Review of basics of French grammar; conversation, culture and reading. Prerequisite: FREN 102 or test-out. (F)

FREN 301  French Conversation & Comp Mim Cr. 3-Max Cr. 3
Emphasis is on developing proficiency in active skills, i.e., speaking and writing. This is a writing intensive course. Prerequisite: FREN 202 or test-out. (F)

FREN 342  France & Francophone Mim Cr. 3-Max Cr. 3
A language proficiency course that builds intercultural communication skills through the study of 19th and 20th century French and Francophone culture and civilization. Events covered are Napoleon and the rise of nationalism; the colonial period; World Wars I and II; post-war environment; decolonization; France and Francophone cultures today. The course is taught in French. Prerequisite: FREN 202 or consent of instructor. (Sp, alternate years)

FREN 378  Semester Abroad Research Mim Cr. 6-Max Cr. 6
The research component of the Semester Abroad program. A semester of directed research in a European country. Taken in conjunction with International Studies 377/577. Prerequisites: participation in the Spring Semester Abroad orientation seminar; 2.25 GPA; junior or senior standing. (F)

GENG 121  Engineering Drawing Mim Cr. 3-Max Cr. 3
Principles of graphics communication are used in conjunction with Computer Aided Design (CAD) software to construct 2D and 3D models. Emphasis will be placed on the ability to visualize and
construct accurate models of objects. Students will learn to create template drawings, principal views, auxiliary views and section views. Dimensioning and tolerance practices along with appropriate views will be used to create plans and assembly drawings. (F)

**GENG 235**  Surveying    Mim Cr. 3-Max Cr. 3
Students will learn principles and theory of surveying, along with care and use of surveying equipment. Field procedures and computations for chaining, leveling, traversing, land description and mapping are included. (F)

**GEOG 110**  Physical Env:Patterns & Sys    Mim Cr. 3-Max Cr. 3
This course presents a basic understanding of the processes which in combination produce worldwide patterns of the natural environment: landforms, climate, vegetation and soils. (F, Sp)

**GEOG 120**  Human Geography    Mim Cr. 3-Max Cr. 3
This course introduces the student to the description and analysis of world patterns of population, race, religion, language, agriculture, industry, levels of economic development, urbanization, and human environmental impact. (F, Sp)

**GEOG 212**  Weather & Climate    Mim Cr. 3-Max Cr. 3
Students will study the elements of weather and climate, climate classification, distribution, climate change and its impact on people. (alternate years)

**GEOG 240**  The United States    Mim Cr. 3-Max Cr. 3
Contemporary patterns of the physical environment, population, settlement patterns, agriculture, resources, industry and, politics and culture issues will be examined. Emphasis is on regional differences and interrelationships. (F)

**GEOG 250**  Introduction to GISci    Mim Cr. 3-Max Cr. 3
This course is an introduction to fundamental concepts and methods in Geographic Information Science (GISci). Emphasis is placed on the subfields of Geographic Information Systems (GIS), Cartography, Remote Sensing, and Global Positioning System (GPS). This course is the prerequisite for all GISci courses. (F, Sp)

**GEOG 324**  Hist Geog United States    Mim Cr. 3-Max Cr. 3
The settlement and territorial expansion of the United States from colonial times through 1945 is covered. The development of regional economies, rivalries, cultures, creation of a continental country, and growing involvement in global affairs are examined. The contributions of native peoples, minorities, and women in continental settlement will be studied. Prerequisite: Completion of SB General Education requirement. (alternate years)

**GEOG 343**  Africa    Mim Cr. 3-Max Cr. 3
The course provides a regional survey of physical environments, human settlements, and cultures of the African continent. Topics include landforms and climates, population, cultural and agricultural systems, urban and economic development and current ecological issues. The impacts of the European colonial experience on the continent are explored. Prerequisite: GEOG 110 or 120 or consent of instructor. (alternate years)

**GEOG 351**  Map Design    Mim Cr. 3-Max Cr. 3
This course covers concepts and techniques related to map design and production. Topics include map lettering and labeling, elevation and topographic visualization, thematic mapping, and map production for printed and digital environments. Map layout, design, and cartographic problems that pose special challenges will be explored from practical and theoretical perspectives. Prerequisite: GEOG 250. (F, Sp)
GEOG 360 GIS: Theory & Methods Mim Cr. 3-Max Cr. 3
This course provides an introduction to the theory and methods for creating and utilizing geographic information systems (GIS). Applications of GIS, digital database design and construction, geographic analyses and presentation of results of analyses in map form will be covered. Students will gain experience with both vector and raster systems, using ArcGIS, ARC/Info and Idrisi. Special course fee required. Prerequisite: GEOG 250. (F, Sp)

GEOG 366 Field Methods and GPS Mim Cr. 3-Max Cr. 3
This course covers traditional and state-of-the-art techniques used to collect geographic field data. Topics include map use, orienteering, recording field observations, using GPS technology for mapping, data collection, and field checking. Students will learn how to create spatial databases from field observations and integrate these data with GIS. (F)

GEOG 378 Semester Abroad Research Mim Cr. 3-Max Cr. 6
The research component of the Semester Abroad program. A semester of directed research in a European country. Taken in conjunction with International Studies 377/577. Prerequisites: participation in the Spring Semester Abroad orientation seminar; 2.25 GPA; junior or senior standing. (F)

GEOG 379 Geography Internship Mim Cr. 3-Max Cr. 12
The internship allows geography students to earn credits through practical field experiences. Experiences must be at a professional level with an appropriate organization, businesses or government agency with a geographic, GIS, or mapping focus. Prerequisites: minimum of 9 cr. in Geography at or above the 200 level; permission of department chair. (F, Sp, SS)

GEOG 389 ST: Geography Mim Cr. 3-Max Cr. 3
Selected topics of particular interest to students and in areas of special staff expertise will be studied.

GEOG 490 Readings in Geography Mim Cr. 1-Max Cr. 3
This course is designed for students who desire advanced reading and discussion on a topic developed in consultation with an instructor. Prerequisites: consent of department chair and instructor.

GEOG 499 Independent Study Mim Cr. 1-Max Cr. 2
This course is designed for advanced geography students who wish to work independently on a project. A paper describing the research or a finished cartographic product is required. Prerequisites: consent of department chair and instructor.

GEOL 101 Introduction to Geology Mim Cr. 3-Max Cr. 3
The investigation of the planet Earth. Includes the study of earth materials, the dynamic processes which have shaped and are shaping the earth's surface and interior through time, and the influence of these materials and processes on humanity. (F, Sp)

GEOL 102 Intro to Geology Laboratory Mim Cr. 1-Max Cr. 1
Laboratory study of minerals, rocks and earth processes including interpretation of topographic and geologic maps. Using geological data to understand the scientific method. Field trips and lab fee required. Pre- or Co-requisite: GEOL 101. (F, Sp)

GEOL 202 Oceanography Mim Cr. 3-Max Cr. 3
Introduction to the physical, geological, chemical and biological makeup of the world's oceans. Future potential of the ocean as a source of energy, minerals and food. (Sp)

GEOL 230 Mineralogy Mim Cr. 4-Max Cr. 4
Techniques for the description and identification of minerals. Basic crystallography and crystal chemistry stressing the application of these disciplines to minerals and ore deposits. Includes
extensive laboratory component. Prerequisites: GEOL 102, CHEM 121 or consent of instructor. (F)

GEOL 269 Environmental Geology Mim Cr. 3-Max Cr. 3
This is a writing intensive course. A survey course designed to develop a general understanding of the relationship of the various earth systems to human activity, to deal rigorously and optimistically with both short-term, local geologic problems as well as those of world impact. EC; (F)

GEOL 326 Structural Geology Mim Cr. 4-Max Cr. 4
Genesis, classification and interpretation of geologic structures. Physics of rock deformation and elementary stress analysis. Examination of the structural characteristics of orogenic belts. Graphical solution of structure problems and maps. Field trip required. Prerequisites: GEOL 102, 150; MATH 147; PHYS 151; or consent of instructor. (F)

GEOL 330 Meteorology Mim Cr. 2-Max Cr. 2
This course provides an introduction to the theory and application of atmospheric sciences. Physical processes of the atmosphere will be emphasized including: nature and composition of atmosphere, solar radiation and earth's heat balance, humidity, condensation, precipitation, clouds, air pressure, winds, global circulation, weather fronts, thunderstorms, tornadoes, hurricanes, weather forecasting and weather maps, and meteorological optics. (F)

GEOL 378 Semester Abroad Mim Cr. 6-Max Cr. 6
The research component of the Semester Abroad program. A semester of directed research in a European country. Taken in conjunction with International Studies 377/577. Prerequisites: participation in the Spring Semester Abroad orientation seminar; 2.25 GPA; junior or senior standing. (F)

GEOL 485 Senior Research Experience Mim Cr. 1-Max Cr. 1
This is a writing intensive course. Original research experience under faculty supervision, resulting in a written paper and oral presentation to a peer group. Prerequisites: senior standing and consent of instructor. (F)

GEOL 490 Independent Study Mim Cr. 1-Max Cr. 2
Students will examine independent field problems and perform laboratory work or library research. Prerequisites: junior or senior standing and consent of instructor. (F,Sp)

GEOL 530 Meteorology Mim Cr. 2-Max Cr. 2
This course provides an introduction to the theory and application of atmospheric sciences. Physical processes of the atmosphere will be emphasized including: nature and composition of atmosphere, solar radiation and earth's heat balance, humidity, condensation, precipitation, clouds, air pressure, winds, global circulation, weather fronts, thunderstorms, tornadoes, hurricanes, weather forecasting and weather maps, and meteorological optics. (F)

GERM 101 Beginning German I Mim Cr. 4-Max Cr. 4
An introduction to German through conversation, writing practice and cultural material. 101 presumes no previous study of the language. (F)

GERM 201 Intermediate German I Mim Cr. 3-Max Cr. 3
Review of basics of German grammar; conversation, culture and reading. Prerequisites: GERM 102 or test-out. (F)

GERM 301 German Conversation & Comp I Mim Cr. 3-Max Cr. 3
Emphasis is on developing proficiency in the productive skills of writing and speaking. This is a writing intensive course. Prerequisite: GERM 202 or test-out. (F)
GERM 315  Classic & Modern Germ Film  Mim Cr. 3-Max Cr. 3
German classic and new wave film is examined for cultural, artistic and linguistic merit. Films based on literary masterpieces of writers such as Schiller and T. Mann are studied as well as films created in the last 25 years by new wave directors Herzog, Wenders and Schlondorff. Prerequisite: German 202. Co-listed as FILM 315. (not offered on a regular basis)

GERM 378  Semester Abroad Research  Mim Cr. 6-Max Cr. 6
The research component of the Semester Abroad program. A semester of directed research in a European country. Taken in conjunction with International Studies 377/577. Prerequisites: participation in the Spring Semester Abroad orientation seminar; 2.25 GPA; junior or senior standing. (F)

HEAL 262  Appl Anatomy & Exer Phys  Mim Cr. 3-Max Cr. 3
The study of the major skeletal, muscular, ligaments, tendons, cardiopulmonary & sensory structures of the Human body. Additional study of the physiology of exercise emphasizing adaptations of the various body systems with exercise, thermoregulation and training techniques. Prerequisite: Biol 100 or Biol 150. (F, SP)

HEAL 263  Human Anatomy  Mim Cr. 3-Max Cr. 3
The study of the structure of the human body as it applies to health and physical education. Emphasis is placed on the study of the various anatomical models. Prerequisite: BIOL 100 or 150. (F, Sp)

HEAL 315  Nutrition  Mim Cr. 3-Max Cr. 3
The purpose of this course is to provide future elementary/secondary educators and coaches with the basics about nutrition, as well as information on how to evaluate nutrition research issues and controversies and how to apply what they learn about nutrition in daily life. (F, Sp)

HEAL 350  Community Health  Mim Cr. 3-Max Cr. 3
Community-based health promotion and disease prevention are the focal points of this course. This course will emphasize using educational approaches to build the capacity of communities to create the conditions in which people can become empowered to improve their health and the health of their communities. Emphasis will be given to forging partnerships necessary to address community health problems. (15 hours Community Based Service Learning required) Prerequisite: HEAL 269. (F)

HEAL 361  Meth & Mat Health Elem Teach  Mim Cr. 3-Max Cr. 3
A study of the content of the elementary and middle/secondary school curriculum in health with emphasis on unique teaching techniques. Emphasis will also be placed on emergency medical procedures unique to elementary school children. (F,Sp)

HEAL 460  Teach Fam Life & Sexuality Ed  Mim Cr. 3-Max Cr. 3
Designed to provide an understanding of the content and methodology of teaching sexuality education and family life education in the school setting. Personal value development regarding topics related to sexuality (e.g. gender roles, sexual orientation, healthy relationships, conflict resolution) will be explored. A framework for planning a comprehensive family life program for K-12 will be discussed as well as available materials, DPI recommendations and community attitudes and controls. (F)

HEAL 490  Readings in Health Educ  Mim Cr. 1-Max Cr. 3
Designed as a supplement to students’ required course work. This course allows students the opportunity for an in-depth study of issues and/or problems in health education. Prerequisite: consent of instructor. (F, W, Sp, SS)
HIST 100    Defining Themes in US Hist      Mim Cr. 3-Max Cr. 3
The course provides a general overview of U.S. history through a series of problems or themes such as development of democracy, ethnicity, industrialization, class, urbanization, and issues involving race, and gender. The course provides students with an understanding of the basic ideas, concepts, and chronology of U.S. history as well as an introduction to historical methodology. (F, Sp)

HIST 101    Origins of Civilization     Mim Cr. 3-Max Cr. 3
A foundation course introducing the student to the basic outlines of world history to 1500. The main subjects covered will be the transition from hunting and gathering to agriculture and husbandry, the origin and development of urban life, warfare and the monarchy; the political organization of human societies in the form of cities, states and empires; the philosophical and cultural underpinnings of those societies; the formation and the expansion of communities of belief based on religious teachings; and finally the increasing global interaction of peoples and cultures. (F, Sp)

HIST 102    History of Modern World      Mim Cr. 3-Max Cr. 3
This course is a survey of modern world history, focusing on exploring the political, economic, social, and cultural forces that transformed human societies in the past five centuries. Designed to help students study history with a global perspective, it examines how commercial revolution and nation-building in early modern time made the West the driving force for globalization; how industrialization, imperialism, colonialism, and revolutions inspired by political liberalism, Marxism, and other ideologies changed the Western and the non-Western worlds in the 19th and 20th centuries; and how modern world wars, decolonization movements, and the Cold War redefined the relationship between the West and the rest of the world, and the relationship between humankind and the environment. (F, Sp)

HIST 201    Intro to Asian Civilization(g)   Mim Cr. 3-Max Cr. 3
A study of the civilizations of India, China, Japan and their borderlands, the religions, philosophies, literatures, the economic and political patterns of this increasingly important area of the world, including comparisons with Western Civilization. (F, Sp)

HIST 202    Intro to Latin Amer Civil (g)    Mim Cr. 3-Max Cr. 3
A survey of the major historical forces contributing to the development of modern Latin America with an emphasis upon the blending of Native American, European and African cultures. (F)

HIST 203    The Mediterranean (g)      Mim Cr. 3-Max Cr. 3
This course is a survey of the history of the interdependence of cultures, religions, polities, ecologies and economies in the Mediterranean region from late prehistory to the present. Offered every fall semester or on demand.

HIST 204    Global Migration US Hist (g)   Mim Cr. 3-Max Cr. 3
The course examines patterns of migration to the United States from the seventeenth century to the present. Emphasizing historical shifts in migration, the course analyzes economic, cultural and political ideologies and forces shaping migration patterns; histories of diverse immigrant groups; social and cultural constrictions of racial and ethnic categories, especially in the context of nationalism and citizenship; and the effects of migration on ethnic communities, on interethnic relationships and on nationhood in the United States. (F, alternate years)

HIST 206    Native Americans & the US (d) Mim Cr. 3-Max Cr. 3
A survey course of the Native American experience from pre-history to the present. Attention will be paid to the interaction between Native American and Euro-American cultures in the colonial experience and in the American West, and the issues raised by the question of sovereignty. (F, Sp)
HIST 207 African American History (d) Mim Cr. 3-Max Cr. 3
This course examines the economic, political, social and cultural conditions of African Americans in the North and South from arrival to the present, as well as relationships between blacks and whites throughout this history. Emphasis will be placed on examining systems of oppression, strategies of resistance and cultural survival within black communities and contribution of African Americans to the larger arena of U.S. history. (Sp, alternate years)

HIST 209 Intro to African History (g) Mim Cr. 3-Max Cr. 3
This course provides an introduction to the history of sub-Saharan Africa and it assumes no previous knowledge of African history. This course addresses significant developments in African history from the precolonial to the postcolonial period and examines prominent themes in African history such as the evolution of African states, the development of the Saharan and Indian Ocean trades, the Atlantic Slave Trade, the introduction of colonial rule to Africa, the consolidation of colonial rule, the development of apartheid in South Africa, and post WWII independence movements. (F, Sp)

HIST 215 U.S.History I Mim Cr. 3-Max Cr. 3
The course, for history majors and minors, surveys American history from its beginnings to the end of the Civil War. The focus is on the development of American culture and identity and the factors influencing them such as class, ethnicity and race, gender, and economic and political forces. Prerequisites: HIST 101 or 102 or consent of instructor. (F, Sp).

HIST 309 Nietzsche to the Present Mim Cr. 3-Max Cr. 3
The course is an exploration of the major ideas and writers in the recent period of western political philosophy. The course covers the period from the mid-nineteenth century to the present and emphasizes the ideas of Nietzsche, Pragmatism, Freud, Ortega, Arendt, Existentialism, Phenomenology and Post-Structuralism. Co-listed as HIST and PHIL 309/509. (Sp, alternate years)

HIST 324 Early Modern Europe Mim Cr. 3-Max Cr. 3
This course is a survey of the major Western European developments during the early modern era. It offers students and overview of the European Renaissance, Reformation, Religious Wars, Absolutism, Enlightenment, and issues such as the expansion of the larger world, the rise of printing and literacy, etc. (Offered every other year).

HIST 336 Traditional East Asia (g) Mim Cr. 3-Max Cr. 3
This course traces pre-modern development of East Asian political, economic and social institutions, explores the formation of shared East Asian cultural identity, and depicts how trade and cultural contacts with the West set the stage for the region's globalization in modern time. Prerequisites: Junior standing. (Sp).

HIST 351 US Colonial Hist I Mim Cr. 3-Max Cr. 3
An examination of the origins of American civilization from pre-historic times to the early eighteenth century. Topics covered include: Native American foundations, early settlement, the rise and fall of Puritanism, administration of the empire, witchcraft and patterns of demographic and territorial growth. (F, alternate years)

HIST 364 Hist of the Upper Midwest Mim Cr. 3-Max Cr. 3
An exploration of the history of Wisconsin and Minnesota from the invasion of the Ojibway to the twentieth century. Emphasis will be placed on the role of the frontier, industries such as timber and agriculture, and ethnic migrations in the development of the area. (Sp, alternate years)

HIST 367 History of US Foreign Policy Mim Cr. 3-Max Cr. 3
This course presents an analysis of United States foreign policy from 1776 to the present. The emphasis is upon expansion, both continental and commercial. Co-listed as HIST 367/567. (Sp, alternate years)
HIST 378  Semester Abroad Research  Mim Cr. 6-Max Cr. 6
The research component of the Semester Abroad program. A semester of directed research in a European country. Taken in conjunction with International Studies 377/577. Prerequisites: participation in the Spring Semester Abroad orientation seminar; 2.25 GPA; junior or senior standing. (F)

HIST 379  Internship in History  Mim Cr. 3-Max Cr. 8
The course provides an intensive training experience in an aspect of the work of historical agencies such as curating, exhibit work, registration, interpretation and administration. Prerequisite: Sophomore or above and consent of instructor. (F, Sp)

HIST 485  History Seminar  Mim Cr. 3-Max Cr. 3
The history seminar provides a synthesis of historical study for history majors and minors. The seminar explores current issues in historical theory and method, examines a specific topic historiographically, and culminates with student's independent research project. Prerequisite: Major or minor in history. (F, Sp)

HIST 490  Readings in History  Mim Cr. 1-Max Cr. 4
This course is offered for advanced students who desire to study a specific topic or period of history in an intense way under the supervision of a specialist. The usual formula is to read at least three books or 800 pages per credit, and to write a series of reports, as outlined after consultation with the instructor. No more than two cr. a semester are permitted, not more than four cr. in a major. Prerequisite: Written consent of the instructor and filling out History and Philosophy Department's Independent Study Contract. (F, Sp, SS)

HIST 499  Independent Study  Mim Cr. 1-Max Cr. 3
Students will pursue a given history topic in depth. Prerequisite: consent of instructor and filling out History and Philosophy Department's Independent Study Contract. (F, Sp, SS)

HIST 690  Readings in History  Mim Cr. 1-Max Cr. 4
This course is for advanced students who desire to study some period in history more intensively under the supervision of the specialist for that period. No more than two hours a semester, or a total of four hours. Prerequisite: written consent of instructor.

HIST 790  Special Problems  Mim Cr. 1-Max Cr. 3

HIST 794  Readings  Mim Cr. 1-Max Cr. 3

HIST 799  Thesis  Mim Cr. 1-Max Cr. 4

HON 181  Freshman Honors Seminar  Mim Cr. 1-Max Cr. 1
This course is required of all participants, preferably in the first year of enrollment. It will include an orientation to the Honors Program and other topics selected by the instructor. This course may be repeated.

HON 266  Honors Calculus III  Mim Cr. 1-Max Cr. 1
This course explores topics in calculus that complement Math 266: Calculus III. Topics will include applications of calculus to science and social science, calculus topics of historical interest, and technologies for exploring calculus. Co-requisite: Math 266

HON 271  Honors Events  Mim Cr. 1-Max Cr. 1
This elective is meant to encourage Honors Program participants to engage in the intellectual and creative life of the UW-River Falls community and elsewhere. Events include a host of experiences including concerts, lectures, plays, and art exhibits. This course can be repeated and
is graded on a pass/fail basis. Participants must provide a short reaction paper for each event and appropriate evidence of attendance. Five events equals one credit.

HON 371  Honors Service Learning  Mim Cr. 1-Max Cr. 3
Service learning means unpaid service work that will benefit the community and provide a significant learning experience for the student. One credit of service learning equals 45 hours of actual service learning experience. This independent experience must be documented as to the amount of time contributed and the learning component completed. This course is repeatable and graded on a pass/fail basis.

HON 498  Honors Project  Mim Cr. 1-Max Cr. 3
Required of all participants during junior or senior year. Participants must submit a project proposal outlining their research hypotheses, methodologies, and expected outcomes, and suggest appropriate faculty reviewers to the Honors Director for approval before commencing their work. Each project will be evaluated by three faculty chosen by the student and approved by the Honors Director. Projects may be graded pass/fail at the student's request. Projects undertaken for departmental senior seminars may be accepted as honors theses/projects at the discretion of the department and the Honors Director.

HORT 169  Intro to Horticulture  Mim Cr. 3-Max Cr. 3
This course emphasizes the basic fundamentals and practical cultural practices for successfully growing horticultural plants in the home and garden as well as in commercial production situations. The theoretical basis for these practices will be stressed. Prerequisites: HORT or CROP 161, or consent of instructor. Lab fee required. (F, Sp)

HORT 200  Plant Propagation  Mim Cr. 3-Max Cr. 3
Students will study the principles and practices involved in sexual and asexual propagation of horticultural plants. Prerequisites: HORT or CROP 161. (F)

HORT 268  Native / Adapt Herb Peren Plts  Mim Cr. 3-Max Cr. 3
Students will gain the ability to identify and provide cultural recommendations for over 230 native and adaptive herbaceous perennial plants and recommend appropriate site specific uses. Sustainable perennial garden design, prairie restoration, rain gardens and commercial production practices will also be discussed. Prerequisite: HORT 169, or consent of instructor. (F)

HORT 270  Internship I  Mim Cr. 2-Max Cr. 4
Students obtain professional work experience with a cooperating employer. Individualized learning objectives are established for each participant. The completion of a special project at the internship site is an integral part of the experience. Prerequisites: 30 cr. and consent of director and faculty coordinator. (F, Sp, SS)

HORT 310  Greenhouse Management  Mim Cr. 3-Max Cr. 3
Students will study greenhouse structures, environmental control, cultural techniques and general management practices for the commercial production of greenhouse crops. Prerequisite: HORT 169. (F)

HORT 347  Fruit Science & Production  Mim Cr. 4-Max Cr. 4
Students will study the commercial production of temperate zone small fruits and tree fruits. Site selection, environmental effects and modifications, cultural and management practices, pollination, pruning, soil management, thinning, irrigation, pest control, post harvest physiology, and marketing are discussed. Prerequisites: HORT or CROP 161, and HORT 169, or consent of instructor. (F)
HORT 352 Woody Landscape Plants Mim Cr. 3-Max Cr. 3
Students will study the identification, classification, environmental requirements, and cultural requirements of about 120 woody ornamental plants commonly used in the outdoor landscape in the Upper Midwest. Prerequisites: HORT or CROP 161, or consent of instructor. (F)

HORT 370 Internship II Mim Cr. 2-Max Cr. 4
An advanced professional work experience with a cooperating employer. Individualized learning objectives are established for each participant. The completion of a special project at the internship site is an integral part of the experience. Prerequisites: HORT 270 and consent of director and faculty coordinator. (F, Sp, SS)

HORT 485 Horticulture Seminar Mim Cr. 1-Max Cr. 1
The student chooses a topic (with the consent of the instructor) of current interest in horticultural science and conducts a comprehensive investigation of the scientific literature relevant to that topic. The student summarizes the results of the investigation in an oral presentation to his/her peers using appropriate visual aids. The student will also critique presentations by other students in the class. Prerequisite: Senior standing. (F, Sp)

HORT 490 Independent Study Mim Cr. 1-Max Cr. 3
Students will perform independent study and/or conduct a research project under the supervision of a faculty member. Prerequisites: consent of instructor. (F, Sp)

HUM 305 Human-Animal Studies Mim Cr. 3-Max Cr. 3
Examines novels, poems, essays, films, photographs, art, and daily cultural texts (newspapers, billboards, restaurant menus, music videos, etc.) to uncover the ways our interactions with other animal species shape our accounts of what it means to be human, and how we understand our influence and responsibility in environmental sustainability. (Sp)

HWM 300 Introduction to Human Health Mim Cr. 3-Max Cr. 3
This course is designed to provide students with a general background knowledge on many of the issues impacting our health today. Topics of study will include issues in mental, physical and social health such as stress, nutrition and fitness, alcohol, tobacco and other drugs, relationships and sexuality and diseases and disorders. An introduction to behavior change theories and the factors contributing to overall wellness will also be included. (F, Sp)

HWM 310 Life Span Changes Mim Cr. 3-Max Cr. 3
This course explores the developmental changes that accompany the aging process. Additional topics include coping skills and health strategies to enhance health and longevity of seniors in our society. Prerequisite: HWM 300. (F, Sp)

HWM 320 Medical Terminology Mim Cr. 3-Max Cr. 3
The purpose of this course is to introduce the student to the basic terminology used in health and medical settings. Although most wellness settings are not inclusive to a medical center or clinical setting, often the clients are participating in a program because of a visit to a medical setting. Since health care uses a unique blend of prefixes, suffixes and terms related to both preventative and clinical care, it is important that the wellness professional has the knowledge and abilities to decipher this information. Emphasis will be placed on the systems that a wellness professional will most likely be exposed to including: Cardiovascular, Respiratory, Muscular Skeletal, Nervous systems. (F, Sp)

HWM 330 Technology in Healthcare Mim Cr. 3-Max Cr. 3
This course surveys essential healthcare information technologies (HIT) that are used for healthcare information systems (HISs). Popular HISs include electronic medical record systems (EMRS) that keep record of the patients? history, the computerized provider order entry systems that record the history of the procurement of medicine and other medical necessaries, telemedicine, which keeps information of the medical doctors in the computers, telehealth e-
prescribing, which prescribes the medicine electronically, medication administration, which keeps the information of medical doctors and other hospital staff members, and nursing and ancillary service systems. (F, Sp).

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Minimum Credits</th>
<th>Maximum Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HWM 340</td>
<td>Wellness Professional</td>
<td>Mim Cr. 3-Max Cr. 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>This course explores the definition of wellness, health promotion and the seven dimension model of wellness. Students will learn the professional role and personal commitment required to implement life-style wellness programs. The course includes an overview of the history and philosophy contributing to the success of wellness and health promotion professionals. Students will learn the basic wellness principles through assigned experiential activities where they will explore personal wellness and whole systems healing in the seven dimensions of wellness (spiritual, physical, emotional, career, intellectual, environmental, and social). Prerequisite: PSYC 101; HWM 300 Introduction to Human Health; HWM 310 Changes Across the Lifespan. (F, Sp).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HWM 350</td>
<td>Appl Research Methods Health</td>
<td>Mim Cr. 3-Max Cr. 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>This course is designed to familiarize students with research nomenclature, procedures for the design and evaluation of research and interpretation of statistical analysis in the health field. Also, to provide the tools for critically evaluating the validity of health research.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HWM 360</td>
<td>Stress and Addictions</td>
<td>Mim Cr. 3-Max Cr. 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Examine common behavioral strategies with regard to stress management strategies, and the use of alternative remedies for physical and emotional dependencies and addictions. Prerequisites: PSYC 101. (F, Sp).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HWM 370</td>
<td>Health Behavior Change</td>
<td>Mim Cr. 3-Max Cr. 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>The course discusses how health/behavior change happens. The basic knowledge and understanding of foundational change theories is reviewed, based upon the Transtheoretical Stages of Change Model®. Included is a reflection on one’s personal wellness and strategies for implementing health behavior change. Prerequisites: PSYC 101. (F, Sp).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HWM 380</td>
<td>Environmental Health</td>
<td>Mim Cr. 3-Max Cr. 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>This course examines the interdisciplinary and global effects of human-environment relationships. Emphasis is placed on the critical nature of the relationship between ecosystem health and human health and well-being. Environmental politics, economics, global disease, and traditional environmental health topics are considered for the purpose of improving the quality of life for all people through the creation of a sustainable society. Prerequisites: BIOL 100; HWM 300 Introduction to Human Health. (F, Sp).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HWM 390</td>
<td>Health Marketing</td>
<td>Mim Cr. 3-Max Cr. 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Students will develop basic marketing and promotional skills, grounded in the disciplines of social marketing, health communication and business marketing that address consumer health “needs” and customer &quot;wants&quot;. Students will be able to assess market opportunities in wellness services, programs and facilities, and create marketing strategies and tactics. Emphases will be placed on best practices for behavior change, increased cost savings for employers, improved customer/employee participation and/or revenues for wellness programs, services and facilities. Prerequisite: COMS 101; HWM 320 Health and Medical Terminology; HWM 330 Survey of Information Technology in Healthcare; HWM 370 Health Behavior/Understanding and Effecting Change; HWM 430 Population Health; HWM 450 Medical Ethics/Policy. (F, Sp).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HWM 400</td>
<td>Health Resource Management</td>
<td>Mim Cr. 3-Max Cr. 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>The objective of this course is to examine the issues in health care and defining the quality of care in health care programs. The course will focus on health care financing and insurance, objectives of financial management, leadership styles, managing costs and managing heath care professionals. (F, Sp)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
HWM 410  Anatomy & Physiology  Mim Cr. 3-Max Cr. 3
This course will begin with a brief digital laboratory experience, highlighting the anatomical structures which facilitate movement. The course will then address basic principles of fitness and exercise prescription in order to familiarize students with training approaches designed to stimulate aerobic and anaerobic energy systems. (F, Sp).

HWM 420  Health Literacy  Mim Cr. 3-Max Cr. 3
This course will explore the current understandings and work in health literacy research, advocacy, and outreach efforts across the various health education and related fields. It will include readings, discussions, and competencies in evaluation health information for quality and credibility; locating health information and determining quality resources; identifying and assessing population health literacy; and understanding the networks of agencies working in health settings to address literacy in the health field. Prerequisites: BIO 100; HWM 320 Health and Medical Terminology. (F, Sp).

HWM 430  Population Health  Mim Cr. 3-Max Cr. 3
This course introduces the evolution of health problems and services and will examine the methods designed to capture a community health profile. The participant will apply concepts involved in measuring and understanding the health of individuals and populations in order to enhance quality of life. The key social determinants of wellness and their interactions will be considered. (F,Sp).

HWM 440  Wellness Coaching  Mim Cr. 3-Max Cr. 3
Diverse coaching methodologies will be defined, compared, contrasted, and practiced. The course will develop a solid theory-based understanding of health coaching. The boundaries of practice between wellness coaches and psychologists/therapists will be clearly defined to provide students with an understanding of which practitioners and courses of action are recommended under various circumstances commonly encountered in worksite wellness settings. Prerequisite: Introduction to PSYC 101; COMS 101; HWM 300 Introduction to Human Health; HWM 310 Changes Across the Lifespan (F, Sp).

HWM 450  Medical Ethics & Policy  Mim Cr. 3-Max Cr. 3
this course will explore the moral values and judgements as they apply to medicine. Discussion will involve ethical principles which govern the practice of medicine as well as the ethical theories which form the basis of ethical argument. Prerequisite: HWM 310 and 340. (F, Sp).

HWM 460  Change Management  Mim Cr. 3-Max Cr. 3
This course will examine the various leadership and management styles, including business models of leadership. Organizational behavior, decision making, and budgets will also be covered. An academic service learning component and community work will be expected as a component. Prerequisites: COMS 101. (F, Sp).

HWM 470  Assessment and Evaluation  Mim Cr. 3-Max Cr. 3
The purpose of this course is to provide background information and understanding regarding the design, implementation, and evaluation of wellness programs. Emphasis will be placed on developing and evaluating programs that meet the needs and interests of the target populations. Prerequisites: HWM 350 Applied Research Methods; HWM 420 Health Literacy; HWM 430 Population Health. (F, Sp).

HWM 480  Benefit Plans & Providers  Mim Cr. 3-Max Cr. 3
Strategically designed and administered health care plans are essential for worksites to attract and retain staff and manage costs. This course provides a solid introduction to the basic elements of employee benefits and how health plans and wellness programs fit into the overall benefit scheme. Students will learn how to evaluate health and wellness plans for return on investment [ROI], work with providers to design effective options, and implement management strategies to meet bottom-line and employee wellness goals. Prerequisites: HWM 320 Health and
Successful employee wellness programs from across the nation will be critically analyzed in case studies to provide a solid understanding of the importance of workplace involvement in health. Return on investment will be assessed in all its facets, including health care costs, disability, sick time, retention, recruitment, reputation and employee presenteeism (engagement). Strategic planning guided by disease management versus population wellness theories will be contrasted. Employer needs, organizational culture, environmental policy and procedures will be assessed for impact (positive and negative) on employee wellness program outcomes. Evaluation of employee wellness programs will consider client needs and wants, best practices in program design and implementation, and human diversity factors that affect participation. (F, Sp).

This course explores the theory and dynamics of interprofessional and team practice in health and wellness management within the context of assigned projects, individual study and/or practical experience undertaken in corporate settings. Prerequisites: Senior status and consent of the instructor. (Sp)

This interdisciplinary course introduces students to the importance of international studies and examines select global issues, such as globalization, interdependence, global environmental issues, disease, health, gender, culture, and conflict. (F, Sp).

A semester of directed research and independent travel in Europe. This course is to be taken in conjunction with 378/578 in a subject area. Students will prepare a research project in a subject area (during spring semester) and carry out the research project in a European country during fall semester. The research period is from eight to ten weeks; students will be free to travel during the remaining part of the semester. Semester Abroad is open to students in all university disciplines. Prerequisites: participation in the Semester Abroad orientation seminar; 2.25 GPA; junior or senior standing. Students must apply before February 15 of the previous spring semester and attend the orientation seminar, then register for 377/577 and 378/578 for fall semester. (F)

The internship is designed to allow the student to gain college credit through practical work experience with domestic, foreign, or international institutions and organizations that have an international focus. Prerequisite: Student must be an International Studies Minor, possess language and other skills appropriate to the internship position, and obtain the consent of the program coordinator for the International Studies Minor prior to registration for the course. (F, Sp, SS)

This course is designed for students who desire advanced reading and discussion of a topic developed in consultation with the program coordinator for the International Studies Minor. Prerequisite: Student must be an International Studies Minor and obtain the consent of the program coordinator for the International Studies Minor. (F, Sp, SS)

The course allows an intensive exploration of a particular problem or phenomenon identified within the framework of international studies. Prerequisite: Student must be an International Studies Minor and obtain the consent of the program coordinator for the International Studies Minor. (F, Sp, SS)
JAPN 101  Beginning Japanese I  Mim Cr. 4-Max Cr. 4
An introduction to the study of Japanese. Basic vocabulary, conversation and cultural material. 101 presumes no previous study of the language. (F)

JAPN 201  Intermediate Japanese I  Mim Cr. 4-Max Cr. 4
Review of basics of Japanese Grammar; introduction of new grammatical concepts; conversation, culture and reading. Prerequisite: JAPN 102 or equivalent. (F)

JOUR 101  Intro to Mass Communication  Mim Cr. 3-Max Cr. 3
An introductory survey and analysis of the role of the mass media in society, their operation and performance as disseminators of entertainment, news and information and determiners of values, opinions and attitudes. (F,Sp)

JOUR 110  Principles & Ethics Journalism  Mim Cr. 6-Max Cr. 6
The course is an overview of the journalism profession. It focuses on the nature of news, ethical and legal issues, structure of the news industry, data literacy, and use of multimedia in storytelling. For journalism majors, a grade of C or better is required to continue in the program. (F)

JOUR 201  Information Gathering  Mim Cr. 3-Max Cr. 3
An introduction to the news gathering process with an emphasis on examining records, interviewing news sources, evaluating credibility of Internet sources and analyzing newsworthiness of information. Prerequisite: JOUR 110.

JOUR 221  Radio News Production  Mim Cr. 2-Max Cr. 2
A practical introduction to radio production using field and studio equipment with an emphasis on the technical skills used in news, public affairs and documentary production. A course fee for audio supplies will be added to tuition. Prerequisite: JOUR 110 or consent of instructor. (F)

JOUR 224  Online Media Production  Mim Cr. 2-Max Cr. 2
Students learn how to build and edit a news website modeled on the best practices of journalism and digital media. The hands-on course covers writing and editing for online media, legal and ethical issues, convergence, and website and mobile media structure and design using HTML. Prerequisite: JOUR 110 or consent of instructor. (Sp)

JOUR 240  Intro to Visual Communication  Mim Cr. 3-Max Cr. 3
Students will interpret, analyze and construct visual messages used in journalism and public relations, including typography, photography, page design and informational graphics. (F, Sp)

JOUR 302  History of Documentary  Mim Cr. 3-Max Cr. 3
This course examines the history and techniques of the nonfiction film. It involves analysis of historical examples of documentary film (including newsreels, propaganda films and television documentaries) along with the works of prominent documentary makers and styles of documentary production. Co-listed as FILM 302. (F, alternate years)

JOUR 304  News Practicum  Mim Cr. 3-Max Cr. 3
Students cover campus and community news, preparing stories for campus media. Stories are critiqued in class. Additional class discussions cover current issues in journalism and the characteristics of various news media. Students prepare a portfolio of their work at the end of the semester. Prerequisites: Grade of C or better in JOUR 204 and JOUR 221, 222 or 224, or permission of instructor. (F)

JOUR 378  Semester Abroad Research  Mim Cr. 3-Max Cr. 6
The research component of the Semester Abroad program. Taken in conjunction with International Studies 377/577. Prerequisites: participation in the Spring Semester Abroad orientation seminar; 2.25 GPA; junior or senior standing. (F)
JOUR 379 Internship in Journalism Mim Cr. 1-Max Cr. 3
Student may earn up to 3 credits by successfully completing one or more internships with an approved communications medium (1 credit for each 50 hours of work experience).
Prerequisites: completion of sophomore year and written approval of department chair. Pass/Fail basis. (F, Sp, SS)

JOUR 465 Mass Communication Law Mim Cr. 3-Max Cr. 3
This is a writing intensive course. It includes a legal description of the rights, privileges and responsibilities of the mass media and examines issues such as libel and privacy, censorship, broadcast regulation, copyright, reporters’ rights, obscenity, fair trial-free press and advertising regulation. Prerequisite: senior standing. (F)

JOUR 490 Readings in Jour & Mass Comm Mim Cr. 1-Max Cr. 3
This course is for upper division students who desire to conduct research on some particular problem or issue in the field of journalism and mass communication. Prerequisite: consent of department chairperson. (F, Sp, SS)

JOUR 499 Projects in Jour & Mass Comm Mim Cr. 1-Max Cr. 3
The course provides an opportunity for upper division students to select a project in journalism and mass communication and to work independently with an assigned faculty supervisor. Prerequisites: consent of department chair. (F, Sp, SS)

MARC 100 Writing for Mass Media Mim Cr. 3-Max Cr. 3
An introduction to the different writing styles used in public relations, advertising and promotions. (F, Sp)

MARC 200 Intro to Marketing Comm Mim Cr. 3-Max Cr. 3
This course is designed to increase the student's understanding of marketing communications - theory and practice - in today's environment. The first half of the course focuses on the areas of advertising and communications; the second half provides an overview of promotional, public relations, direct marketing and personal selling communications. The technology lab component will provide operational skills in tools currently used by marketing communications professionals including word processing, presentational graphics, relational databases, desktop publishing, and Internet/World Wide Web access. Required of all Marketing Communications majors. Prerequisite: Sophomore standing. (F, Sp)

MARC 207 Listening Skills Mim Cr. 3-Max Cr. 3
This course will allow students to observe the importance of listening in their daily lives and recognize their strengths and weaknesses as listeners. The course will develop an understanding of listening as a language art and as a communication skill. Skill development will be emphasized. Students will not be allowed to take both COMS 207 and 407/607. (F, Sp, SS)

MARC 279 Coop Educ & Internship Mim Cr. 1-Max Cr. 1
Students earn credit for a part-time experience in marketing communications. A maximum of one credit per semester may be earned for each 279 experience, but this may be repeated up to a total of 4 credits. The Marketing Communication work experience/internship requirement may be fulfilled by a combination of 279 and 379 in A&S or SBE for a maximum of 4 sem. hrs. Prerequisites: Sophomore standing, completion of MARC 200 and approval of Marketing Communications internship coordinator. (F, Sp, SS)

MARC 311 Persuasion Mim Cr. 3-Max Cr. 3
Students will study variables in communication settings which influence the nature and effects of oral response. Prerequisite: COMS 101 or consent of instructor. (F, Sp)
MARC 360 Advertising Mim Cr. 3-Max Cr. 3
A study of the history, current practices, and environment (social, ethical, economic and legal) of the advertising industry. (Sp).

MARC 378 Semester Abroad Research Mim Cr. 6-Max Cr. 6
The research component of the Semester Abroad program. A semester of directed research in a European country. Taken in conjunction with International Studies 377/577. Prerequisites: participation in the Spring Semester Abroad orientation seminar; 2.25 GPA; junior or senior standing. (F)

MARC 379 Marketing Comm Internship Mim Cr. 2-Max Cr. 4
Students earn credit for a full or part-time work experience within an approved marketing communications field. Experiences must be at the professional level. Students may earn 4 credits by successfully completing one or more internships. The Marketing Communications work experience/internship requirement may be fulfilled by a combination of 279 and 379 for a maximum of Prerequisites: Completion of sophomore year, completion of MARC 200, approval of Marketing Communications internship coordinator. (F, Sp, SS)

MARC 389 Special Topic: Marketing Comm Mim Cr. 3-Max Cr. 3
Special topics in Marketing Communications. Prerequisites: MARC 200 or MKTG 310 or MKTG 311 or permission of instructor.

MARC 407 Listening Instruction Mim Cr. 3-Max Cr. 3
This class is offered as an alternative to Listening (COMS 207), a listening skills class for undergraduates. It gives prospective teachers an opportunity to observe and participate in such a course, but unlike the skills course it emphasizes techniques and units for listening instruction. Open only to prospective and current teachers. Students will not be allowed to take both COMS 207 and 407/607. (F, Sp, SS)

MARC 480 Sem: Marketing Comm Mim Cr. 3-Max Cr. 3
A senior level discussion of current marketing communications issues. In addition, techniques for preparing for careers in marketing communications will be emphasized with practical application projects. Portfolio presentations will also be included. Required of all marketing communications majors. It is recommended that this course be taken the semester of your graduation. Prerequisites: Completion of all other Marketing Communications core requirements and senior standing. (F, Sp)

MATH 10 Introduction to Algebra Mim Cr. 3-Max Cr. 3
Properties of sets and real numbers, fundamental operations, factoring, fractions, and linear equations are examined. Degree credit will not be given. Prerequisite: Students with a Wisconsin Math Placement Test Score of 10 and an ACT math score below 20 must take both MATH 010 and MATH 030. (F)

MATH 126 Activities in Math Mim Cr. 3-Max Cr. 3
A survey in breadth rather than depth of a variety of mathematical topics. While emphasis is on the spirit, concepts and structure of modern mathematics, manipulative skills and techniques are also developed. Prerequisite: WPT Math Formula score of 40+, ACT Math score of 20+, or Math 30. (F, Sp, SS upon student request)

MATH 146 College Algebra Mim Cr. 3-Max Cr. 3
Properties of the real number system, relations, functions, solution of equations and solution of inequalities. Special attention is given to the analysis and graphing of linear, quadratic, polynomial, exponential and logarithmic functions. Prerequisite: WPT Math Formula score of 40+, ACT Math score of 20+, or Math 30. May not be taken after receiving a C or better in a math course with a higher number except 216, 246, 247 or 248. (F, Sp, SS)
MATH 147  College Algebra & Trig  Mim Cr. 3-Max Cr. 3
Circular and trigonometric functions, matrices and determinants, systems of equations, complex numbers, sequences, series, mathematical induction and the binomial theorem are examined. Students who intend to take MATH 166 are encouraged to take MATH 149 rather than MATH 147. Prerequisite: MATH 146 or equivalent. May not be taken after receiving a C or better in a math course with a higher number, except 216,246, 247 or 248. (F, Sp; SS upon student request)

MATH 149  Precalculus  Mim Cr. 4-Max Cr. 4
This course reviews algebra, while covering new topics in algebra and trigonometry with emphasis on those topics needed for the study of calculus. It is designed for students who intend to take MATH 166. Prerequisite: MATH 146 or equivalent. May not be taken after receiving credit for 147 or any math course with a higher number except 216, 246, 247 or 248. (F, Sp)

MATH 156  Calculus for Bus & Social Sci  Mim Cr. 3-Max Cr. 3
This course is designed to provide a foundation in those topics of calculus that are relevant to students in managerial, life and social sciences. It begins with the study of functions and progresses through single and multivariable calculus. Prerequisite: MATH 146 or equivalent. Cannot be taken for credit after receiving a C or better in MATH 166. (F,Sp; SS upon student request)

MATH 166  Calculus I  Mim Cr. 4-Max Cr. 4
This course provides a thorough coverage of differential calculus, including functions, limits, continuity, the derivative, rules of differentiation, the mean-value theorem, implicit differentiation, as well as applications to graphing and problems of maxima-minima and related rates. The course concludes with an introduction to integral calculus, including anti-derivatives, the definite integral, and the fundamental theorem of calculus. Prerequisite: MATH 147 or 149 or equivalent. (F, Sp; SS upon student request)

MATH 167  Calculus II  Mim Cr. 4-Max Cr. 4
A continuation of the study of differential and integral calculus from MATH 166, including inverse functions, techniques of integration, improper integrals, and the application of the definite integral to problems of arc length and separable differential equations; topics from analysis, including polar coordinates, parametric equations, sequences, series, power series, and Taylor polynomials. Prerequisite: A grade of C- or better in MATH 166. (F, Sp)

MATH 216  Elem Statistical Concepts  Mim Cr. 3-Max Cr. 3
An introduction to the central concepts of descriptive and inferential statistics from an intuitive point of view, including the use and abuse of statistics in contemporary settings, frequency distributions, measures of central tendency and dispersion, sampling, confidence intervals and hypothesis testing, methods of presenting statistical data. Prerequisite: WPT Math Formula score of 40+, ACT Math Score 20+, or Math 30. Cannot be taken after receiving a C- or better in another statistics course. (F, Sp; SS upon student request)

MATH 226  Fundamentals of Statistics  Mim Cr. 3-Max Cr. 3
An introductory course in applied statistics, covering such topics as descriptive statistics, elementary probability, sampling and sampling distributions and hypothesis testing. May not be taken for credit if Econ. 226 has been taken. Prerequisite: MATH 146 or equivalent. Cannot be taken after receiving a C- or better in a more advanced statistics course. (F, Sp; SS upon student request)

MATH 236  Discrete Mathematics  Mim Cr. 4-Max Cr. 4
This course provides an introduction to topics in discrete mathematics, including set theory, mathematical induction, permutations and combinations, binomial coefficients, recurrence relations, introductory logic, graph theory, and applications to computer science and probability. Prerequisite: MATH 156 or 166. (F, SP)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Min Cr.</th>
<th>Max Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 246</td>
<td>Math for Elem Teachers I</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Course content will include problem solving, reasoning, sets, whole numbers, numeration, decimals, functions, D geometry, and measurement. Prerequisite: WPT Math Formula score of 40+, ACT Math Score 20+, or Math 30. Open only to elementary education majors of at least sophomore standing. (F, Sp)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 247</td>
<td>Math for Elem Teachers II</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Course content will include the real number system, similarity and proportional reasoning, number theory, measurement, probability and data analysis. Prerequisite: A grade of C or better in MATH 246. (F, Sp)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 256</td>
<td>Linear Algebra</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Systems of linear equations, matrices, determinants, vector spaces, linear transformations, eigenvalues and diagonalization theorems will be covered in the course. Prerequisite: MATH 156 or 166. (F, Sp)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 266</td>
<td>Calculus III</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>This course covers topics in multi-variable calculus, including graphing, partial differentiation, directional derivatives, gradients, definite integration over planar regions and regions of space, cylindrical and spherical coordinates, the Jacobian and methods for changing coordinates. Introductory vector analysis, including line and surface integrals are treated as time permits. Prerequisite: A grade of C- or better in MATH 167. (F, Sp; SS upon student request)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 279</td>
<td>Coop Educ &amp; Internship I</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>A mathematics-related work experience such as tutoring, grading papers or serving as a laboratory assistant. In addition, students will be expected to attend several seminars on job skills and to assist in projects proposed by their on-site supervisor. This course is intended to help prepare students for MATH 379. Prerequisites: Completion of MATH 167; sophomore standing; GPA of 3.0 or higher; permission of MATH Department Internship Supervisor. (F, Sp)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 30</td>
<td>Intermediate Algebra</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Properties of the real number system, solutions of linear and quadratic equations and inequalities, factoring and graphing are examined. Degree credit will not be given. Required of students whose score on the Wisconsin MATH Placement Test is 20 or 30 and whose ACT math score is below 20. Prerequisite: MATH 010 or Wisconsin MATH Placement test score of at least 20. (F, Sp)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 306</td>
<td>Number Theory</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Properties of integers, prime and composite numbers, Euclidean algorithm, Diophantine equations, congruences, number-theoretic functions and continued fractions will be covered. Prerequisite: MATH 236. (F, odd years)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 331</td>
<td>Differential Equations</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>The fundamental theorems and methods used in studying ordinary differential equations are presented. Applications from physics and engineering are illustrated. Topics include first- and second-order linear, first-order nonlinear equations and series solutions. Prerequisite: MATH 256 or 266. (F, Sp)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 347</td>
<td>Numerical Methods II</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>This is a continuation of the study of numerical methods. Techniques to solve ordinary and partial differential equations, boundary-value problems and nonlinear systems of equations will be examined. These will include finite-element and finite-difference methods. Co-listed as CSIS 347. Prerequisite: MATH 266 and capability in at least one programming language. (F, odd years)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 356</td>
<td>Probability</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>
|             | Fundamental concepts of discrete and continuous probability theory will be developed, including density and distribution functions, independence, conditional probability, Baye’s theorem,
marginal probabilities and densities, bivariate densities, moment-generating functions, and the central limit theorem. Prerequisites: MATH 236 and 266. (F)

MATH 366 Advanced Calculus I Mim Cr. 3-Max Cr. 3
Advanced treatment of real numbers, limits, sequences, continuity, differentiation and integration. Prerequisite: MATH 236 and 266. (F, odd years)

MATH 379 Internship in Mathematics Mim Cr. 3-Max Cr. 12
A temporary paid job (usually lasting for one semester or summer) providing pre-professional experience in an off-campus business or institution. The job must provide practical applications of mathematics-related skills and personal growth in these skills. Selected students will be matched with sponsoring organizations and a job description and evaluation method will be negotiated for each opportunity. The number of credit hours depends on the number of hours of employment. Prerequisites: MATH 236, 256, 266 and at least one 300-level math course; 60 or more credit hours with a GPA of 3.0 or better; permission of Mathematics Internship Supervisor; MATH 279 or permission of Mathematics Department Chair. (F, Sp, SS)

MATH 411 Geometry Mim Cr. 3-Max Cr. 3
Topics include Euclidean geometry of the polygon and circle, inversion, constructions, axiomatic foundations, non-Euclidean geometries, platonic solids, and the theory of transformations. Prerequisite: MATH 167, 236 and 256. (F)

MATH 436 History of Mathematics Mim Cr. 2-Max Cr. 2
This is a writing intensive course for the mathematics education major. This course studies the evolution of mathematical concepts, symbolism, processes and structures together with the role of mathematics in human intellectual and cultural development. It stresses the unique features of mathematics as a discipline and its interrelationship to other major areas of study, all from a historical perspective. Prerequisite: two years of college mathematics. The course is intended for education students. (F)

MATH 485 Sem: Mathematics Mim Cr. 1-Max Cr. 1
This is the writing intensive course for the mathematics liberal arts major. This is a seminar in advanced topics in mathematics. Students will research a topic and give an oral presentation, along with a written report. Prerequisite: senior standing and completion of all core requirements. (F, Sp)

MATH 490 Readings in Mathematics Mim Cr. 1-Max Cr. 1
This course is intended for upper level students who wish to read intensively in a particular area of mathematics. Prerequisite: consent of instructor. (F, Sp, SS)

MATH 490 Readings in Mathematics Mim Cr. 1-Max Cr. 3
This course is intended for upper level students who wish to read intensively in a particular area of mathematics. Prerequisite: consent of instructor. (F, Sp, SS)

MATH 499 Independent Study Mim Cr. 1-Max Cr. 3
This course is designed for upperclassmen who wish to work independently on a topic or problem in mathematics. A paper describing the research is required. Prerequisite: consent of instructor. (F, Sp, SS)

MATH 798 Independent Research Mim Cr. 1-Max Cr. 4

MATH 799 Thesis Mim Cr. 1-Max Cr. 4

MKTG 279 Coop Education & Internship Mim Cr. 1-Max Cr. 1
Internships provide valuable experience in the business world significantly beyond classroom experience. Eligibility requirements include full-time business major in good academic standing;
approval from internship advisor, department chair, and prior completion of 60 credits including basic business tool courses and business core courses. No more than three credits can be used as business electives. Pass/fail only.(F,Sp,SS)

MKTG 310  Principles of Marketing  Mim Cr. 3-Max Cr. 3
Introductory course which studies decisions made in creating products and services to meet consumer needs in a changing business environment. Product development, pricing, logistics, promotion and characteristics of customers are studied in-depth. Prerequisites: Prerequisites: 1) Admission to College of Business and Economics. 2) or have ECON 201, 202 and ECON 226 or Math 226 or Psyc 201 and ACCT 201 or ACCT 231 and 232 and CSIS 215 and be a Bus. Ad. Minor. (F,Sp)

MKTG 311  Prin Mktg Mar Comm  Mim Cr. 3-Max Cr. 3
This course is open to majors in Marketing Communications. Strategic planning, organizational structure, and marketing principles are analyzed from the perspective of global relationships with emphasis on communications. This course may not be used for credit in the business major or minor. Prerequisite: Sophomore standing. (F,Sp)

MKTG 312  Consumer Behavior  Mim Cr. 3-Max Cr. 3
The objectives of this course are to develop an understanding of how consumers make decisions and why this process is important for strategic marketing analysis. The course provides knowledge about the individual, social and environmental factors that influence consumer decisions. Theoretical contributions from the behavioral and social sciences will be used in developing an understanding of the importance of consumer analysis to overall marketing strategy. Prerequisite: MKTG 310 or 311.(F, Sp)

MKTG 330  Promotional Strategy  Mim Cr. 3-Max Cr. 3
Examination of the principles of promotional strategy within the context of the integrated marketing communications component of marketing strategy. Topics include: promotional strategy, management of the promotion mix (advertising, sales promotion, public relations); media strategy; and evaluation. Prerequisite: MKTG 310 or 311.

MKTG 334  Internet & Direct Marketing  Mim Cr. 3-Max Cr. 3
Students learn the basic principles and practices of direct and interactive marketing. Topics include planning an interactive direct marketing program, direct marketing media such as Internet, catalogs, direct response advertising, and direct mail. The course also examines developing, managing, and using customer databases to produce highly targeted offerings. Prerequisite: MKTG 310 or 311. (F)

MKTG 365  Marketing Research  Mim Cr. 3-Max Cr. 3
The primary objective of this course is to develop an ability to formulate marketing research strategies to address the various kinds of marketing research questions/problems frequently encountered in organizations. The course will include an analysis of the major techniques used in collecting, analyzing and interpreting marketing research information. Prerequisites: MKTG 310 or 311, and Econ 326 or Math 226 or Psyc 201, and be of Soph level or higher. (Sp)

MKTG 378  Semester Abroad Research  Mim Cr. 6-Max Cr. 6
The research component of the Semester Abroad program. A semester of directed research in a European country. Taken in conjunction with International Studies 377/577. Prerequisites: participation in the Spring Semester Abroad orientation seminar; junior or senior standing.(F)

MKTG 379  Internship in Marketing  Mim Cr. 2-Max Cr. 6
Internships provide valuable experience in the business world significantly beyond classroom experience. Eligibility requirements include full-time business major, in good academic standing; approval from internship advisor and department chair, and prior completion of 60 credits.
including basic business tool courses and business core courses. No more than three credits can be used as business electives. Pass/fail only. (F, Sp, SS)

MKTG 445  Marketing Strategy  Mim Cr. 3-Max Cr. 3
The objective of this class is to develop students’ ability to manage strategic marketing issues within the context of the fundamental business objective of maintaining a competitive advantage. Major issues covered include: environmental and competitive analysis, market segmentation and targeting, position decisions, strategies for new products, strategies for growth, mature, and declining markets, and international strategies. Strategy formulation and implementation will be investigated. This is a writing intensive class. Prerequisites: MKTG 310, FINC 345, and senior standing. (F)

MKTG 499  Independent Study  Mim Cr. 1-Max Cr. 3

MNGT 279  Coop Education & Internship I  Mim Cr. 1-Max Cr. 1
Internships provide valuable experience in the business world significantly beyond classroom experience. Eligibility requirements include full-time business major in good academic standing; approval from internship advisor, department chair, and prior completion of 60 credits including basic business tool courses and business core courses. No more than three credits can be used as business electives. Pass/fail only. (F, Sp, SS)

MNGT 300  Mngt & Org Behavior  Mim Cr. 3-Max Cr. 3
This course will address basic management principles and the interrelated principles of individual and group behavior. The objective of this course is to help the student become an effective manager in today’s organizations. Prerequisites: 1) Admission to College of Business and Economics. 2) or have ECON 201, 202 and ECON 226 or Math 226 or Psyc 201 and ACCT 201 or ACCT 231 and 232 and CSIS 215 and be a Bus. Ad. Minor. (F, Sp, SS)

MNGT 318  Operations Research  Mim Cr. 3-Max Cr. 3
This course teaches students how to become better problem solvers and decision makers by using the most common tools in Operations Research/Management Science. Topics include Linear Programming, Integer Programming, and Network Models. Emphasis is on formulating problems that may arise in business such as product mix, scheduling employees, capital budgeting, transportation, advertising, and investment. Students represent and solve the problems using the spreadsheet program Excel. Other software is introduced as needed. Prerequisites: ECON 205 or MATH 156, CSIS 215. (Sp)

MNGT 320  Human Resource Management  Mim Cr. 3-Max Cr. 3
The objective of this course is to examine the functions of human resource management. The course will focus on recruitment, selection, job analysis, compensation, labor relations, performance appraisals and organizational change. Prerequisite: MNGT 300. (F, Sp)

MNGT 330  Mngt Workplace Diversity (d)  Mim Cr. 3-Max Cr. 3
This is an approved University diversity course. Students will learn to improve the level of efficiency in an organization through effective diversity initiatives. Topics reviewed include: conducting a diversity audit; creating an organizational climate that embraces diversity for maximized workplace potential; building cohesive multicultural work teams; and hiring, training and promoting a diverse work force. (not offered every term.)

MNGT 340  Ethical Leadership  Mim Cr. 3-Max Cr. 3
This course explores theories of leadership and the ethical challenges faced by leaders. Assessment of leadership competencies and practice in utilizing them through case studies, exercises and reflection will enhance the leadership abilities of students. An integral part of this course involves examining and building one’s own ethical competency through self-assessment challenge and feedback and learning to recognize ethical dilemmas and deciding how to resolve them. Prerequisite: MNGT 300. (F, Sp)
This course takes a different approach to decision making than is taken in courses in the various functional areas of management. The focus in this course is on how decisions are made as opposed to how they should be made. Topics include the heuristics (rules-of-thumb) that humans employ in decision making, the biases caused by these rules-of-thumb and the concept of group think (a hazard to effective decision making in groups). Prerequisite: MNGT 300. (F)

The course covers international activities of small and medium-sized firms as well as large multinational corporations. Topics include trade strategies, doing business with newly emerging market economies, the policy aspects of international business, reflecting the U.S. government and international institutions and functional areas of international business management. Prerequisite: MNGT 300. (F)

The operations function in any enterprise (public or private, profit or non-profit) is responsible for all the activities related to producing goods or delivering services. The course considers the quantitative and qualitative aspects of decisions that must be made to control the operations function in both services and manufacturing. Prerequisites: Admission to College of Business and Economics. This includes students admitted to the University Fall 2003. Application for admission is done through the Dean's Office, CBE. (F, Sp)

Internships provide valuable experience in the business world significantly beyond classroom experience. Eligibility requirements include full-time business major, in good academic standing; approval from Internship advisor and department chair, and prior completion of 60 credits including basic business tool courses and business core courses. No more than three credits can be used as business electives. Pass/fail only. (F, Sp, SS)

This course is designed to analyze and introduce the student to many of the aspects of starting his/her own business or being involved with a small company. The course will address a wide array of practical issues from what business to start to where it should be located. The methodology of this course will be to utilize case studies and guest speakers. Prerequisites: FINC 345, MKTG 310 and MNGT 300. (F)

Writing intensive. Using case analysis, discussion, and computer programs, students will learn to integrate knowledge from the required business courses. Prerequisites: FINC 345, MNGT 300, MKTG 310, and MNGT 361. (F, Sp)

Independent study is an opportunity for upper class students to select a project in an area of business and work independently with an assigned professor. Open only to business administration majors. Prerequisites: a 3.0 GPA in accounting and business courses, upper class standing and consent of department chair. (F, Sp, SS)

Organizational Theory and Behavior introduces students to the perspectives developed to understand and evaluate the functioning of complex organizations. Theories of organization from the early 20th Century to the present are presented and evaluated for their explanatory value. In addition, organizational dynamics such as employee motivation, the quality of working life, decision-making, organizational change, and development are discussed and explored. Prerequisite: Admission to the MBA program.
MNGT 701  Leadership & Ethics  Mim Cr. 3-Max Cr. 3
This course is designed to provide foundational information on leadership and to assist students to enhance leadership competencies in their professional life. The course explores conceptions and theories of leadership, both historical and current, and applies theories through case studies and simulations. Assessment of leadership competencies, practice in utilizing competencies, analyses of leadership challenges, and synthesis of experience and theory all serve to enhance the leadership abilities of students. The ethical aspects and obligations of leadership are emphasized throughout the course. Prerequisite: Admission to the MBA program.

MNGT 704  Fundamentals of Business Law  Mim Cr. 2-Max Cr. 2
This course introduces the fundamentals of business law, particularly the areas of labor/employment law and contract law. Students will become familiar with basic concepts through a combination of lecture, case studies, and individual and group presentations with an emphasis on class participation. The focus will be on applied learning for the non-lawyer business practitioner in multiple settings. Prerequisite: Admission to the MBA program.

MNGT 710  Practicum  Mim Cr. 2-Max Cr. 2
This is the capstone course in the Master of Management curriculum. In this course, students are provided an opportunity to synthesize and draw upon material and competencies gained through the required course curriculum in the completion of an independent research project that incorporates investigative methods and approaches used in organizational research and managerial practice. Prerequisite: Admission to the MBA program.

MNGT 720  Strategy and Org Perf  Mim Cr. 3-Max Cr. 3
This course will examine the elements needed to formulate and implement business and corporate level strategies. The focus will be upon organizational performance and the primary and support activities needed for successful implementation to create a competitive advantage for the firm. Both corporate and small business strategies will be discussed. This is a capstone course and will require the student to synthesize material from previous courses. Prerequisites; MNGT 700, MNGT (or MKTG) 702, MNGT 705 and FINC (or MNGT) 706, and Admission to the MBA program.

MNGT 743  Talent Management  Mim Cr. 3-Max Cr. 3
This course addresses key issues in managing human capital and presents a comprehensive overview of how to effectively develop a talent management strategy. Topics include workforce analysis, building a talent pipeline, onboarding, performance management, career management, succession planning, retention, engagement, and creating an inclusive environment. Prerequisites: admission to the daytime MBA program (F)

MNGT 780  Prior Learning  Mim Cr. 2-Max Cr. 3
Students may apply to receive credit for prior learning. Please contact the Master of Management program director. (F, Sp, SS)

MNGT 789  ST: Management  Mim Cr. 1-Max Cr. 1

MNGT 798  Independent Research  Mim Cr. 1-Max Cr. 1
Provides an opportunity for individual student-faculty cooperation in developing and conducting research.

MODL 377  Foreign Study  Mim Cr. 3-Max Cr. 12
This program allows a student to take advantage of cooperative agreements between UWRF and institutions of higher education in other parts of the world. The student will enroll in language or other courses at institutions with which UWRF has cooperative agreements, such as Universidad Autnoma in Guadalajara, Mexico. Students will receive credit based on range of course work and evidence of success at the cooperating institution. Admission to appropriate international program required.(F, Sp, SS)
MODL 377  Foreign Study  Mim Cr. 3-Max Cr. 3
This program allows a student to take advantage of cooperative agreements between UWRF and institutions of higher education in other parts of the world. The student will enroll in language or other courses at institutions with which UWRF has cooperative agreements, such as Universidad Autonoma in Guadalajara, Mexico. Students will receive credit based on range of course work and evidence of success at the cooperating institution. Admission to appropriate international program required. (F, Sp, SS)

MODL 377  Foreign Study  Mim Cr. 3-Max Cr. 12
This program allows a student to take advantage of cooperative agreements between UWRF and institutions of higher education in other parts of the world. The student will enroll in language or other courses at institutions with which UWRF has cooperative agreements, such as Universidad Autonoma in Guadalajara, Mexico. Students will receive credit based on range of course work and evidence of success at the cooperating institution. Admission to appropriate international program required. (F, Sp, SS)

MONT 711  Mont Child Observation  Mim Cr. 1-Max Cr. 1
In this course, participants learn and practice observational, recording and evaluation techniques of children's individual development. They will also learn to apply developmental theory and Montessori philosophy to interpretation of observations. In addition, participants will practice self-observation and reflection on personal transformation. Fall

MONT 712  Child Develop & Observ  Mim Cr. 3-Max Cr. 3
This course teaches the basic aspects of child development and child study as well as encouraging critical thinking on early childhood topics. It is designed to provide an understanding of the planes of development, the application of the theories of child development, and an understanding of important factors that affect the child's development in the physical, cognitive and affective domains. Emphasis lies in observational, recording and evaluation techniques of children's individual development and reflection on meeting the needs of children in diverse circumstances. Participants will also practice self-observation and reflection on personal transformation. (F)

MONT 722  EC: Literacy Foundations  Mim Cr. 3-Max Cr. 3
This course prepares students to support the language and literacy development of 2 1/2 to 6 year old children in a Montessori classroom environment. The student will explore the continuity of learning experiences for the young child through the preparation of developmentally appropriate sequentially prepared exercises. Students will also gain knowledge of a broad repertoire of language teaching and support strategies using manipulative materials and picture books in a rich context of spoken and written language. Prerequisite: MONT 500, or permission of instructor (F).

MONT 745  E 1: Geometry  Mim Cr. 2-Max Cr. 2
Participants will explore the shapes of solid and plane figures through studying a variety of polygons, exploring constructive triangles and through exercises with geometric solids. They will also explore the properties of lines and angles and apply this knowledge to the study of plane figures, including polygons and circles. Prerequisite: MONT 500, MONT 505, or permission of instructor (F).

MONT 762  EC: Ed Leadership & Mgmt  Mim Cr. 3-Max Cr. 3
Participants will explore techniques for effective educational leadership including preparation of the environment, scheduling, assessment, lesson strategies, and guidance in diverse classroom cultures. They will also focus on establishing parent-educator partnerships and techniques of administration. Through reflective practice, students will learn to view educational leadership as a transformative process. Prerequisite: MONT 500; and MONT 710 or MONT 722 or MONT 732 or MONT 742; or permission of instructor. (Sp)
MONT 781   EC Practicum A Mim Cr. 2-Max Cr. 2
This course provides Montessori classroom practice through observation, participation and teaching with University supervision. Practice is provided in a university affiliated Montessori setting for three hours a day, for five consecutive days, full semester experience following the daily schedule of the school. Participants relate Montessori pedagogical knowledge, principles/theories from their professional education to classroom practice. EC Practicum A represents one of two required practicum experiences. Prerequisite: MONT 500; MONT 722; or permission of the instructor. (F)

MONT 783   E1-2 Practicum A   Mim Cr. 3-Max Cr. 3
This course provides Montessori classroom practice through observation, participation and teaching with University supervision. Practice in a university affiliated Montessori setting for six hours a day for five consecutive days, full semester experience following the daily schedule of the school. Participants relate Montessori pedagogical knowledge, principles/theories from their professional education to classroom practice. Elem Practicum A is the first of two required practicum experiences. Prerequisite: MONT 500; MONT 724 or permission of the instructor. (F)

MONT 785   Mont Research   Mim Cr. 3-Max Cr. 3
Participants will have the opportunity to critically evaluate research in Montessori education, as well as explore comparative education studies focusing on motivation, autonomy, learning environments, classroom relationships and course content. Students will also learn to design, implement and share teacher research projects using qualitative and quantitative methodologies. Prerequisite: MONT 722 or MONT 724; MONT 732 or MONT 734 & 735; MONT 742 or MONT 744 & 745; or permission of instructor. (F)

MONT 787   Secondary I-II Practicum A   Mim Cr. 5-Max Cr. 5
This course provides Montessori secondary classroom practice through observation, participation and teaching with supervision in a university affiliated Montessori setting for a full academic year. This course is the first of two such practicums. It consists of teaching experiences 6 hours/day, 5 days a week for 1 full semester. Participants relate Montessori pedagogical knowledge, principles/theories from their professional education to classroom practice. They also participate in a five day overnight intensive practicum seminar. Prerequisites: MONT 700, MONT 507, & MONT 766 or permission of the instructor. (F)

MONT 789   Special Topics   Mim Cr. 2-Max Cr. 2
Participants will explore a topic related to Montessori philosophy or pedagogy or a topic that will inform the candidate as a Montessori practitioner. Prerequisite: Permission of the Instructor. (F, SP SS)

MONT 791   Mont. Cert. Proj. A   Mim Cr. 1-Max Cr. 1
Participants undertake a year long classroom-based project of which this is the first semester. The project will demonstrate inquiry learning and integrated curriculum and will provide an opportunity for the candidate to reflect on their practice and transformation as an educator. Prerequisite: For elementary MONT 722 or MONT 724 & MONT 742 or MONT 744 & MONT 732 or MONT 734; or permission of the instructor; for Secondary MONT 700, MONT 507, MONT 766 or permission of the instructor. (F)

MSL 101   Ldrship and Pers Dev   Mim Cr. 2-Max Cr. 2
Introduces student to issues and competencies that are central to a commissioned officer's responsibilities. Establishes framework for understanding officership, leadership, and Army values and "life skills" such as physical fitness and time management. The lab provides instruction on squad movement techniques, map reading, fist aid, physical fitness and military formations. (F).
MSL 201  Innovative Team Ldrship  Mim Cr. 3-Max Cr. 3
Students identify successful leadership characteristics through observation of others and self through experiential learning exercises. Students record observed traits (good and bad) in a dimensional leadership journal and discuss observations in small group settings. The lab applies basic leadership theory and decision making during practical exercises in a field environment. Prerequisites: MSL 101 and 102 or department consent. (F)

MSL 301  Adaptive Team Leadership  Mim Cr. 4-Max Cr. 4
Students conduct self-assessment of leadership style, develop personal fitness regimen, and learn to plan and conduct individual/small unit tactical training while testing reasoning and problem-solving techniques. Students receive direct feedback on leadership abilities. The lab reinforces small-unit tactical training while employing the troop leading procedure to accomplish planning and decision-making. Prerequisites: MSL 201 and 202 or department consent. (F)

MSL 401  Dev Adaptive Leaders  Mim Cr. 4-Max Cr. 4
Develops student proficiency in planning and executing complex operations, functioning as a member of a staff, and mentoring subordinates. Students explore training management, methods of effective staff collaboration, and developmental counseling techniques. The lab hones the students’ leadership skills, attributes and abilities as they operate as cadet officers. Prerequisites: MSL 301 and 302 or department consent. (F)

MUS 100  Understanding Music  Mim Cr. 3-Max Cr. 3
Concepts of musical understanding are examined. Emphasis is on listening to music of all historical periods and of various stylistic genres. (not open to music majors or minors)(F, Sp)

MUS 102  Class Guitar  Mim Cr. 1-Max Cr. 1
Fundamentals of guitar techniques are taught with a balance of folk and classical methods.(F, Sp)

MUS 103  Class Voice  Mim Cr. 1-Max Cr. 1
This course is for students with little or no previous training, and is designed to develop a healthy singing technique through exercises and solo performances. Other objectives include improved musicianship and enhanced tone production.(F, Sp)

MUS 104  Beginning Piano for Non-Maj  Mim Cr. 1-Max Cr. 1
This course provides basic instruction in playing the piano with emphasis on sight-reading and harmonization of simple melodies. Open to all students with little or no previous training.(F, Sp)

MUS 130  Music Theory & Ear Training I  Mim Cr. 4-Max Cr. 4
Basic music theoretical concepts are covered including: fundamentals analysis, 4 voice writing and analysis, melodic analysis, development of aural acuity through melodic, harmonic and rhythmic dictation and sight singing.(F)

MUS 140  Class Piano Music Maj & Min  Mim Cr. 1-Max Cr. 1
This course is for music majors and minors with little or no previous training. Emphasis is upon preparation for the Piano Proficiency exam. May be repeated.(F,Sp)

MUS 141  String Techniques  Mim Cr. 1-Max Cr. 1
Basic instruction on stringed instruments for music education majors is included.(F,alternate years)

MUS 144  Class Piano II  Mim Cr. 1-Max Cr. 1
This course is for music majors and minors with some previous training. The continued development of skills leading to Piano Proficiency is emphasized. Prerequisite: MUS 140 or permission of the instructor. (Sp)
MUS 200  American Music Mim Cr. 3-Max Cr. 3
The history of music in the United States is examined along with an analysis of contemporary musical styles and selected compositions; contributions of ethnic minorities with special emphasis upon the evolution of African-American styles and the role of music in contemporary life will be examined. (F)

MUS 230  Music Theory & Ear Training III Mim Cr. 4-Max Cr. 4
Continuation of MUS 131; includes studies in larger dominant and non-dominant structures, chromatically altered chords, and analysis of more complex homophonic and polyphonic forms. Prerequisites: MUS 131. (F)

MUS 234  Music History & Literature I Mim Cr. 4-Max Cr. 4
This is a writing intensive course. The development of the western musical style from antiquity through 1750 will be examined. Both secular and sacred music will be discussed through works of the major composers of this period. (F)

MUS 240  Piano Proficiency Mim Cr. 1-Max Cr. 1
Basic proficiency in piano playing required of all music majors prior to student teaching. An examination, conducted at the end of the term, includes playing scales, chord patterns, prepared accompaniments and sight reading. Prerequisite: MUS 140, 125, or permission of instructor. (F, Sp, SS)

MUS 241  Woodwind Techniques I Mim Cr. 1-Max Cr. 1
The fundamentals of playing and teaching the flute, oboe, and bassoon based on class instruction will be covered. (F, alternate years)

MUS 247  Diction: IPA & Italian Mim Cr. 1-Max Cr. 1
This course is designed to introduce singers to the alphabet of the International Phonetic Association and teach the principles of English, Italian and Latin diction. (F)

MUS 275  Music & Art for Early Learners Mim Cr. 3-Max Cr. 3
This is a course that examines artistic development in young children and how to construct experiences to support the children's artistic learning and knowing in music and art. Through lecture, modeling and creative art and music workshops, students will experience, design and implement lessons to be used in an integrated arts curriculum. (F every other year).

MUS 300  World Music (g) Mim Cr. 3-Max Cr. 3
The study of music in world cultures as a form of artistic expression and symbol of historical as well as national identity, recognizing the interrelationships between music and society in terms of function, context, and structure through both the insider's view and the comparative outsider's view. (Sp)

MUS 301  Composition Mim Cr. 1-Max Cr. 1
This course is an introduction to the composition of music in various styles and media. Students will begin by composing single voice melodies and will then proceed with two, three and four voice writing. May be repeated. (F, Sp)

MUS 333  20th Cent Music Mim Cr. 3-Max Cr. 3
Influences on and directions of recent 20th century composers will be examined with emphasis on styles and works. Prerequisite: MUS 235. (F)

MUS 340  Opera Techniques Mim Cr. 3-Max Cr. 3
Designed to acquaint the student with the technical problems involved in the direction and production of musical drama, this course offers practical experience through public performance of chamber operas and musicals with class members spending a required number of hours as production personnel. (F, alternate years)
MUS 341    Vocal & Choral Pedagogy    Mim Cr. 3-Max Cr. 3
This class is an investigation of teaching procedures as they apply to the development of solo
and choral singers in secondary school systems. Prerequisites: MUS 105, 108, 109, 110 or
127. (F)

MUS 342    Conducting    Mim Cr. 2-Max Cr. 2
The fundamental concepts of baton technique, score preparation, and rehearsal techniques will
be taught along with a continuation of ear training and aural skills. Prerequisite: MUS 131, 235. (F)

MUS 350    Music for Elem Teachers    Mim Cr. 2-Max Cr. 2
The materials and techniques for teaching and infusing music into elementary classrooms will be
explored including: 1) Development of the child voice; 2) Song teaching; 3) Elements of music:
melody, rhythm, dynamics, texture and timbre; 4) Importance of music in education; 5) Playing
classroom instruments; 6) Listening and creating active listening lessons. Required of majors in
Elementary Education. Prerequisite: Junior or senior standing. (F, Sp, SS)

MUS 351    Music Education I    Mim Cr. 3-Max Cr. 3
Students examine theories of child development within the elementary music classroom,
appropriate methods and materials for designing curriculum, assessment of music learning
objectives, and use of technology as appropriate for the elementary classroom music setting.
Students complete 13 hours of focused field experience in which they plan, teach, and assess
lessons at the early childhood and elementary levels. Prerequisites for the course are MUS 130,
131, 230, 231, passage of the Music Ed audition, and TED 120, 211/212, 252. (F).

MUS 401    Advanced Composition    Mim Cr. 1-Max Cr. 1
Students will compose music in various styles and media. May be repeated. Prerequisite: MUS
301. (F, Sp)

MUS 431    Instrumental Literature    Mim Cr. 3-Max Cr. 3
An in depth study of instrumental literature from both a historical and analytical view. This course
will provide an overview of instrumental literature in addition to practical skills in analysis to aid
the learner in selecting appropriate literature for a variety of instrumental settings. Prerequisite:
MUS 231 or permission of instructor. (F, alternate years)

MUS 491    Senior Recital    Mim Cr. 1-Max Cr. 1
Presentation of a program of representative work in the major applied field. Prerequisite:
Permission of applied instructor. (F, Sp)

MUS 499    Independent Study    Mim Cr. 1-Max Cr. 3
This is an opportunity to pursue a musical topic or project in depth. Student must submit an
outline proposal to a faculty advisor and the department chair before registration for the course is
approved. Project should result in a term paper, a musical score, or a similar tangible product. (F,
Sp, SS)

MUSA 120    Brass    Mim Cr. 1-Max Cr. 2
This course provides private instruction in one of the following: voice, keyboard instruments, or
orchestral and band instruments. Credits: 1 or 2 credits. Select 1 credit (half-hour lesson), or 2
credits (one-hour lesson). Prerequisite: consent of instructor. (F, Sp)

MUSA 121    Guitar    Mim Cr. 1-Max Cr. 2
This course provides private instruction in one of the following: voice, keyboard instruments, or
orchestral and band instruments. Credits: 1 or 2 credits. Select 1 credit (half-hour lesson), or 2
credits (one-hour lesson). Prerequisite: consent of instructor. (F, Sp)
MUSA 122  Harpsichord  Mim Cr. 1-Max Cr. 2
This course provides private instruction in one of the following: voice, keyboard instruments, or orchestral and band instruments. Credits: 1 or 2 credits. Select 1 credit (half-hour lesson), or 2 credits (one-hour lesson). Prerequisite: consent of instructor. (F, Sp)

MUSA 123  Organ  Mim Cr. 1-Max Cr. 2
This course provides private instruction in one of the following: voice, keyboard instruments, or orchestral and band instruments. Credits: 1 or 2 credits. Select 1 credit (half-hour lesson), or 2 credits (one-hour lesson). Prerequisite: consent of instructor. (F, Sp)

MUSA 124  Percussion  Mim Cr. 1-Max Cr. 2
This course provides private instruction in one of the following: voice, keyboard instruments, or orchestral and band instruments. Credits: 1 or 2 credits. Select 1 credit (half-hour lesson), or 2 credits (one-hour lesson). Prerequisite: consent of instructor. (F, Sp)

MUSA 125  Piano  Mim Cr. 1-Max Cr. 2
This course provides private instruction in one of the following: voice, keyboard instruments, or orchestral and band instruments. Credits: 1 or 2 credits. Select 1 credit (half-hour lesson), or 2 credits (one-hour lesson). Prerequisite: consent of instructor. (F, Sp)

MUSA 126  Strings  Mim Cr. 1-Max Cr. 2
This course provides private instruction in one of the following: voice, keyboard instruments, or orchestral and band instruments. Credits: 1 or 2 credits. Select 1 credit (half-hour lesson), or 2 credits (one-hour lesson). Prerequisite: consent of instructor. (F, Sp)

MUSA 127  Voice  Mim Cr. 1-Max Cr. 2
This course provides private instruction in one of the following: voice, keyboard instruments, or orchestral and band instruments. Credits: 1 or 2 credits. Select 1 credit (half-hour lesson), or 2 credits (one-hour lesson). Prerequisite: consent of instructor. (F, Sp)

MUSA 128  Woodwinds  Mim Cr. 1-Max Cr. 2
This course provides private instruction in one of the following: voice, keyboard instruments, or orchestral and band instruments. Credits: 1 or 2 credits. Select 1 credit (half-hour lesson), or 2 credits (one-hour lesson). Prerequisite: consent of instructor. (F, Sp)

MUSA 320  Brass  Mim Cr. 1-Max Cr. 2
This course provides private instruction in one of the following: voice, keyboard instruments, or orchestral and band instruments. It is assumed that students who wish to apply credit toward a major or minor in music will have had previous training and that the materials studied will be of collegiate level. All students must demonstrate basic performance competence through an audition for the instructor. Select 1 credit (half-hour lesson), or 2 credits (one-hour lesson). Prerequisite: consent of instructor. (F, Sp)

MUSA 321  Guitar  Mim Cr. 1-Max Cr. 2
This course provides private instruction in one of the following: voice, keyboard instruments, or orchestral and band instruments. Credits: 1 or 2 credits. Select 1 credit (half-hour lesson), or 2 credits (one-hour lesson). Prerequisite: consent of instructor. (F, Sp)

MUSA 322  Harpsichord  Mim Cr. 1-Max Cr. 2
This course provides private instruction in one of the following: voice, keyboard instruments, or orchestral and band instruments. Credits: 1 or 2 credits. Select 1 credit (half-hour lesson), or 2 credits (one-hour lesson). Prerequisite: consent of instructor. (F, Sp)
MUSA 323  Organ  Mim Cr. 1-Max Cr. 2
This course provides private instruction in one of the following: voice, keyboard instruments, or
orchestral and band instruments. Credits: 1 or 2 credits. Select 1 credit (half-hour lesson), or 2
credits (one-hour lesson). Prerequisite: consent of instructor. (F, Sp)

MUSA 324  Percussion  Mim Cr. 1-Max Cr. 2
This course provides private instruction in one of the following: voice, keyboard instruments, or
orchestral and band instruments. Credits: 1 or 2 credits. Select 1 credit (half-hour lesson), or 2
credits (one-hour lesson). Prerequisite: consent of instructor. (F, Sp)

MUSA 325  Piano  Mim Cr. 1-Max Cr. 2
This course provides private instruction in one of the following: voice, keyboard instruments,
orchestral and band instruments. Credits: 1 or 2 credits. Select 1 credit (half-hour lesson), or 2
credits (one-hour lesson). Prerequisite: consent of instructor. (F, Sp)

MUSA 326  Strings  Mim Cr. 1-Max Cr. 2
This course provides private instruction in one of the following: voice, keyboard instruments, or
orchestral and band instruments. Credits: 1 or 2 credits. Select 1 credit (half-hour lesson), or 2
credits (one-hour lesson). Prerequisite: consent of instructor. (F, Sp)

MUSA 327  Voice  Mim Cr. 1-Max Cr. 2
This course provides private instruction in one of the following: voice, keyboard instruments, or
orchestral and band instruments. Credits: 1 or 2 credits. Select 1 credit (half-hour lesson), or 2
credits (one-hour lesson). Prerequisite: consent of instructor. (F, Sp)

MUSA 328  Woodwinds  Mim Cr. 1-Max Cr. 2
This course provides private instruction in one of the following: voice, keyboard instruments, or
orchestral and band instruments. Credits: 1 or 2 credits. Select 1 credit (half-hour lesson), or 2
credits (one-hour lesson). Prerequisite: consent of instructor. (F, Sp)

MUSE 105  Men's Chorus  Mim Cr. 1-Max Cr. 1
Men's Chorus is an ensemble open to all male singers. This ensemble will perform a variety of
music arranged specifically for the male voice and work to develop proper skills needed for
ensemble singing. (F, SP)

MUSE 106  Chamber String Ensemble  Mim Cr. 1-Max Cr. 1
Chamber string ensembles of 2 to 15 players, open to all students and instruments by audition
and/or recommendation of instructor. (offered periodically)

MUSE 107  Falcon Band  Mim Cr. 1-Max Cr. 1
The ensemble studies and performs pep band repertoire. Open to all students, based on audition.
(F, Sp)

MUSE 108  Concert Choir  Mim Cr. 1-Max Cr. 1
Students will rehearse and perform a cappella and accompanied choral literature. Yearly concert
tour. Open to all students with membership gained by audition. (F, Sp)

MUSE 110  Women's Chorus  Mim Cr. 1-Max Cr. 1
This is a chorus devoted to the singing of all types of choral literature. The course is open to all
women. No audition required. (F, Sp)

MUSE 111  SCV Community Orchestra  Mim Cr. 1-Max Cr. 1
Players will perform orchestral literature of all periods. Open to all string players and a limited
number of wind, brass, and percussion players. Prerequisite: audition and recommendation of the
director. (F, Sp)
MUSE 112  Brass Ensemble  Mim Cr. 1-Max Cr. 1
Students will study and perform brass ensemble literature of all periods requiring specialized instrumentation.(F,Sp)

MUSE 113  Symphonic Band/Wind Ens  Mim Cr. 1-Max Cr. 1
Students will rehearse and perform a wide variety of instrumental literature. The ensemble is open to all University students that qualify through the audition process. Yearly concert tour.(F,Sp)

MUSE 114  Percussion Ensemble  Mim Cr. 1-Max Cr. 1
This course consists of mixed ensembles of definite and indefinite pitched instruments. Prerequisite: open to all students by permission of the director.(F,Sp)

MUSE 116  Woodwind Ensemble  Mim Cr. 1-Max Cr. 1
Students will study and perform literature for woodwind instrument chamber ensembles. Open to all students of flute, oboe, clarinet, bassoon, and saxophone, based upon recommendation of the director.(F,Sp)

MUSE 117  New Music Ensemble  Mim Cr. 1-Max Cr. 1
Students will study and perform new music. Prerequisite: open to all students upon recommendation of the director.(F,Sp)

MUSE 118  Jazz Ensemble  Mim Cr. 1-Max Cr. 1
Students will study and perform jazz and jazz-related styles including swing, ballad, bossa nova, funk, rock, blues, and other popular styles. Students will blend ensemble experience with improvisation and experimentation of unusual and progressive musical idioms. Open to all students, based upon recommendation of the director.(F,Sp)

MUSE 119  Guitar Ensembles  Mim Cr. 1-Max Cr. 1
This course will include the practice and performance of music for two or more guitars. Students will also learn to write transcriptions for the ensemble. Prerequisite: Audition and recommendation of the director.(F,Sp)

MUSE 129  Chamber Singers  Mim Cr. 1-Max Cr. 1
Rehearse and perform music suitable to a chamber-size (116 voices) vocal ensemble. On and off campus performance opportunities will be provided. Open to all students with membership gained by audition.(F,Sp)

MUSE 160  Univ Community Chorus  Mim Cr. 1-Max Cr. 1
This is a choral ensemble open to all students and community singers. It is a mixed choir devoted to singing all types of choral literature.(SS)

MUSE 161  Univ Community Band  Mim Cr. 1-Max Cr. 1
This ensemble is open to any student or community musician who enjoys playing in a concert band. No audition is required; a wide variety of band literature is performed. The course is especially geared toward the adult musician who would like to continue his/her playing experience in a relaxed and productive musical environment.(SS)

NSE 900  National Student Exchange  Mim Cr. 12-Max Cr. 12
National Student Exchange Program course placeholder. Students do not register for this course.

P E 102  In-Line Skating  Mim Cr. 0.5-Max Cr. 0.5
An activity course for individuals interested in developing skills necessary to participate in in-line skating as a lifetime, aerobic activity. Students will be required to bring their own in-line skates,
safety equipment (helmet, elbow pads, hand protection, and knee pads), and appropriate workout clothing. Students must also show proof of health insurance or sign a waiver. (Sp)

P E 104 Walking for Health & Fitness Mim Cr. 0.5-Max Cr. 0.5

P E 114 Bowling Mim Cr. 0.5-Max Cr. 0.5
An activity course that will teach fundamentals, rules, and etiquette in bowling. Special course fee. (F, SP)

P E 118 Scuba Mim Cr. 0.5-Max Cr. 0.5
Development of basic skills and safety procedures in SCUBA. Prerequisites: Ability to swim 400 yards, one length of the pool under water and tread water for three minutes. Special course fee. (F, Sp)

P E 124 Tennis Mim Cr. 0.5-Max Cr. 0.5
An opportunity to learn fundamental skills, rules and strategies of tennis. Students will be actively involved in both singles and doubles play. (F, Sp)

P E 125 Golf Mim Cr. 0.5-Max Cr. 0.5
Group instruction in the basic skills of golf including basic swing using woods, irons and putter. Golf etiquette, rules and strategy will be included. (F, Sp)

P E 128 Fundamentals of Ice Skating Mim Cr. 0.5-Max Cr. 0.5
Introduction to the fundamentals of ice skating. Students will learn the proper techniques involved in skating and will gain an appreciation for skating as a lifetime fitness activity. (F, Sp)

P E 131 Weight Training Mim Cr. 0.5-Max Cr. 0.5
Instruction in the fundamental skills of weight training. (F, Sp)

P E 134 Badminton Mim Cr. 0.5-Max Cr. 0.5
An activity course that will teach the rules, techniques, fundamental skills and strategies of the game of badminton. (F, Sp)

P E 139 Introduction to Yoga Mim Cr. 0.5-Max Cr. 0.5
An introduction to yoga with the major emphasis on Hatha Yoga. Class activity will focus on the use of basic asanas (positions) for health, fitness, relaxation, and meditation with other aspects of yoga integrated into the classes. (F, Sp)

P E 141 Basketball Skills Mim Cr. 0.5-Max Cr. 0.5
An opportunity to learn fundamental skills, rules and strategies of basketball. The majority of time will be spent on development of basic skills, including dribbling, shooting, and passing. Offensive and defensive strategies and incorporating team play will also be addressed. (F, Sp)

P E 190 Individual Physical Activity Mim Cr. 0.5-Max Cr. 0.5
An individualized/prescriptive physical education activity course designed for students with special medical requirements. Prerequisites: Consent of Instructor. (F, Sp)

P E 289 ST: Physical Education Mim Cr. 0.5-Max Cr. 0.5

P ED 108 Health & Fitness for Life Mim Cr. 1-Max Cr. 1
Analysis of the consequences of personal decisions and lifestyle choices related to the five dimensions of health and principles of physical fitness. This course is focused on individual assessment of current health status and making personal lifestyle modifications. Class includes lecture and lab. Students must enroll in separate lab section which reinforces information provided in the lecture section. (F, W, Sp, SS)
P ED 109  Recreational Climbing   Mim Cr. 1-Max Cr. 1
A beginning course in rock climbing. Basic techniques will be taught concerning knots, belaying, rappelling, climbing, safety and equipment. (F,SP)

P ED 161  Intro to Health & Human Perf   Mim Cr. 3-Max Cr. 3
The purpose of this course is to serve as an introduction to the professions related to health and human performance. The course provides an overview of and introduction to the history and philosophical nature of the profession: scientific and scholarly disciplines; career exploration and professional development; personal fitness, health and skill assessment; and departmental procedures, policies and expectations. (F,SP)

P ED 166  Football Officiating   Mim Cr. 1-Max Cr. 1
The study and practical application of rules and techniques of football officiating. (F)

P ED 172  Instruct Stat P.E. I   Mim Cr. 1-Max Cr. 1
This course will provide an introduction to the concepts, techniques and requirements of being a K-12 Physical Education teacher. This course should be taken concurrently with DANC 120. (F)

P ED 213  Care & Prev of Athl Injuries   Mim Cr. 2-Max Cr. 2
Theory and practice of the prevention and treatment of athletic injuries including assessment and rehabilitation. Prerequisites: HEAL 262 or HEAL 263 and SFED 200. (F,SP)

P ED 243  Motor Learning and Develop   Mim Cr. 3-Max Cr. 3
This course examines a variety of topics, including principles and practices that affect the learning and development of motor skills; theories of motor learning, motor control and development; development of motor and sport skills across the lifespan; physical changes across the lifespan; and professional applications of motor learning and development in physical education and exercise. (F, Sp)

P ED 265  Physical Activities I   Mim Cr. 3-Max Cr. 3
This course prepares future physical educators to teach quality physical education classes and/or physical activity classes. Instruction will include basic motor skills and learning progressions in various activities. A comprehensive view of all aspects of teaching physical education to elementary-aged children (PreK-Grade 6) is provided. Prerequisites: P ED 161, P ED 172. (F)

P ED 270  Athletic Training Practicum   Mim Cr. 2-Max Cr. 2
A practicum (100 hrs. of field experience required) with special attention given to modalities of treatment, relationship of trainer to coaches and athletes, organization and administration of the athletic training room, and the duties of an athletic trainer. Prerequisites: P ED 213, SFED 200, HEAL 263. (F,Sp)

P ED 275  School Adventure Ed.   Mim Cr. 3-Max Cr. 3
Students will learn concepts, skills, and leadership techniques for the inclusion of adventure programming in a physical education curriculum. Topics will include team/community building through adventure, facilitation, processing, character education, place-based education, brain-based learning, geocaching, and letterboxing. Field experiences include on- and off-campus activities. (F)

P ED 300  Adapted Physical Education   Mim Cr. 3-Max Cr. 3
This course will provide an overview of physical education activities for individuals with disabilities. Special emphasis on adapting activities to meet individual needs in the least restrictive environment. Prerequisites: P ED 245 and be junior standing. (F)

P ED 301  Found of Outdoor Leadership   Mim Cr. 3-Max Cr. 3
Designed to provide an overview of the philosophy, history, programming and leadership of outdoor adventure education (OAE), this course will: 1) analyze how OAE has evolved as a
medium for individual and group development; 2) familiarize students with the standard programs of Outward Bound, the National Outdoor Leadership School and special focus on the curriculum of the Wilderness Education Association; 3) examine the theory and practice of leadership in OAE with emphasis on judgment and decision-making; and 4) provide practical lab experiences that will enhance student leadership ability when applied to group dynamics, wilderness tripping logistics and other skills. Special course fee required. Prerequisite: P ED 201 or 202 or permission of instructor. Co-listed as P ED/ESM 301. (F)

P ED 305 Developed & Adapted Phy Educ Mim Cr. 3-Max Cr. 3
A competency-based course in developmental and adapted physical education designed to meet the need of exceptional children. Emphasis on testing, assessing, prescribing and evaluating motor abilities and physical fitness levels. Prerequisite: PE 300/500. (F).

P ED 326 Tech Phys Educ Elem Teacher Mim Cr. 2-Max Cr. 2
Instructional materials and teaching methods in elementary school physical education. There will be activity in this class, be prepared. Designed for majors in elementary education. There will be 5 hours outside observation time. Prerequisite: TED 211 or 212. (F, Sp)

P ED 354 Biomechanics Mim Cr. 3-Max Cr. 3
Biomechanics is the field of study concerned with the mechanical analysis of biological systems. Mechanical principles and the laws of physics as they apply to human movement are introduced in this course. These principles are then applied to movement observation and analysis. Students are introduced to the tools of biomechanics and the role of biomechanics in equipment design. Prerequisite: HEAL 262 or HEAL 263 or BIOL 341. (F, Sp)

P ED 359 Volleyball Coaching Mim Cr. 2-Max Cr. 2
A study of the basic and advanced strategies and skills needed to be a successful volleyball coach. The student will gain practical experience through observation and participation at volleyball games, practices and tournaments. (F)

P ED 363 Psychology of Coaching Mim Cr. 3-Max Cr. 3
Investigation and discussion of psychological factors related to coaching competitive sports. Intended for students who are seeking a sound understanding of the major psychological components that go into individual and team success. (F, Sp)

P ED 365 Football Coaching Mim Cr. 2-Max Cr. 2
This class deals with theory, tactics, strategy, organization, practice and game preparations, film development, administration and pre-planning for a job in education. (F)

P ED 371 Recreation Field Study Mim Cr. 1-Max Cr. 4
On-the-job experience in a recreational leadership setting. Requires 50 hours contact time per credit along with written work required by instructor. Prerequisites: P ED 201, 202 and P ED/ESM 301 and consent of instructor. (F, W, Sp, SS)

P ED 375 Physical Activity Behavior Mim Cr. 3-Max Cr. 3
The emphasis in this course is on understanding physical activity behavior and the types of interventions that are useful in promoting physical activity. (F, Sp)

P ED 420 Disability & Physical Activities Mim Cr. 3-Max Cr. 3
This course is presented as an introductory or survey course in the field of learning disabilities and developmental cognitive disabilities in Physical Education. It will provide a brief examination of a number of topics including major theoretical approaches, current definitions and terminology used in learning disabilities, issues in diagnosis and assessment, educational adaptations, and techniques. Content includes the full range of each category - mild through severe/profound and the role of physical education in the educational program. Field experience which can be used to
meet Human Relations requirements (for Education majors) is a requirement of the course. Prerequisites: SPED 330 and senior or graduate standing. (F)

P ED 455 Org & Admin of PE Programs Mim Cr. 3-Max Cr. 3
This course will provide the physical education major with the basic principles and practices to develop and administer a physical education program. This course will primarily focus on management functions, public relations and promotion, financial management, legal liability, risk management, curriculum design, and program evaluation. Prerequisites: P ED 241, 245, 196, 198, and DANC 257 and 362. (F)

P ED 461 Senior Seminar Mim Cr. 3-Max Cr. 3
This course is designed as a culminating course prior to student teaching or the internship experience. Methods and materials for the evaluation of students in physical education and human performance will be experienced, including written assessments and performance tests. Selected utilization of computers for data storage and manipulation is also included. The completion of the student professional portfolio and interview portfolio will be a requirement for successful completion of the course. The portfolio will be presented in electronic format. This course will provide students the opportunity to experience mock interviews and develop resume writing and presentation skills useful in job searching and other post-graduate situations. (F, Sp)

P ED 472 Coaching Practicum Mim Cr. 3-Max Cr. 3
The coaching practicum is designed to provide the student an in-the-field coaching experience in which she/he can, in a supervised situation, develop, test and modify her/his coaching knowledge, skills and attitudes. The basic objective is to provide the student with a realistic experience at a level and in a setting similar to that in which she/he wishes to obtain employment. Prerequisites: P ED 213, 363, and Consent of instructor. (F, Sp)

P ED 490 Readings in Physical Educ Mim Cr. 1-Max Cr. 3
Designed as a supplement to students’ required course work, this course allows students the opportunity for an in-depth study of issues or problems in physical education. Prerequisite: consent of instructor. (Sp)

PHIL 151 Living Issues in Philosophy Mim Cr. 3-Max Cr. 3
Topics covered: (1) Ethics. Frameworks and basic principles for resolving ethical dilemmas. (2) Interface between aesthetics and ethics. Can goodness be defined as a form of beauty? Must vice be ugly? (3) Political Philosophy. Notions of justice, human rights and liberty in Western Democracies that determine what laws are fair or legitimate. (4) Religion. The proofs of God’s existence; and the issue of faith and reason. (F, Sp)

PHIL 221 Ancient Philosophy Mim Cr. 3-Max Cr. 3
Concepts of the universe and man from the dawn of western science through Aristotle. (F)

PHIL 240 Social Ethics Mim Cr. 3-Max Cr. 3
An analysis of opposing recent ethical arguments concerning social policy issues such as capital punishment, euthanasia, abortion, gay rights, humane treatment of animals in research, and agribusiness. (Sp)

PHIL 245 Eastern Rel and Islam(g) Mim Cr. 3-Max Cr. 3
We examine the philosophical perspectives of Islam and of the religions of Asia, namely, those of India (Hinduism and Buddhism), of China (Taoism and Confucianism), and of Japan (Shinto and Zen Buddhism). We see, not only to better understand the non-Western outlooks, but also to apply them to contemporary America. (F)

PHIL 301 Env. Ethics vs Liberalism Mim Cr. 3-Max Cr. 3
This multifaceted course examines the theories in environmental ethics, in political/legal theory, in (some aspects of) modern economics and a study of the technological society, with its current
trends. Do the environmental crisis and current trends require a re-evaluation of our ideals imbedded in liberal justice and capitalism? (F or Sp)

PHIL 309 Nietzsche to the Present Mim Cr. 3-Max Cr. 3
The course is an exploration of the major ideas and writers in the recent period of western political philosophy. The course covers the period from the mid-nineteenth century to the present and emphasizes the ideas of Nietzsche, Pragmatism, Freud, Ortega, Arendt, Existentialism, Phenomenology and Post-Structuralism. Co-listed as HIST and PHIL 309/509. (Sp, alternate years)

PHIL 310 Phil & Hist of Art Mim Cr. 3-Max Cr. 3
One aspect of the course is to investigate philosophical problems, such as: What is art? What makes an artwork "good"? Can artworks be condemned on moral grounds, such as, that they are pornographic or decadent? The other aspect is to examine the artworks themselves, and study some major art movements in history. No philosophical issue will be studied without also illustrating it by or applying it to representative artworks and art movements. (F)

PHIL 499 Independent Study Mim Cr. 1-Max Cr. 3
Students will pursue a given topic in philosophy in-depth. Prerequisite: consent of instructor and filling out the History and Philosophy Department's Independent Study Contract. (F, Sp, SS)

PHYS 114 Conceptual Physics Mim Cr. 3-Max Cr. 3
This course is designed to apply toward the general education science requirement. Fundamental ideas of motion, and topics selected from heat, fluids, sound, light, electricity and modern physics are used to develop analytical thought. Written laboratory reports are required. Meets the General Education laboratory requirement. (F, Sp)

PHYS 117 Basic Astronomy Mim Cr. 3-Max Cr. 3
Designed to apply toward the general education science requirement, this course examines the fundamental ideas from the dawn of time to the space age about the Earth, Moon, planets and constellations. The origin and evolution of the solar system, stars, black holes, quasars, galaxies and the universe are covered. The possibility of space travel and extraterrestrial life is explored. (F, Sp)

PHYS 151 Alg.-Based Physics I Mim Cr. 4-Max Cr. 4
This is a non-calculus general physics course for life sciences, pre-professional (excluding pre-engineering), agriculture and earth science students which covers mechanics, fluids, waves and thermodynamics. Prerequisites: MATH 147 or MATH 149; or, consent of instructor. (F, SS funding permitting)

PHYS 156 Alg.-Based Physics Lab I Mim Cr. 1-Max Cr. 1
Data acquisition, data analysis and scientific record keeping are applied to experiments covering mechanics, electricity and magnetism, thermodynamics, optics and modern physics. (F, SS funding permitting)

PHYS 161 Calculus-Based Physics I Mim Cr. 4-Max Cr. 4
Introductory mechanics, fluid mechanics, and thermodynamics. For physics majors it is recommended that General Physics Laboratory I, PHYS 101, be taken concurrently with PHYS 161. Corequisite: MATH 166. (F)

PHYS 166 Calculus-Based Physics Lab I Mim Cr. 1-Max Cr. 1
Data acquisition, data analysis and scientific record keeping are applied to general physics experiments in mechanics, electricity and magnetism, thermodynamics, and optics. Corequisite: PHYS 161. (F)
PHYS 211  Scientific Program  Mim Cr. 3-Max Cr. 3
Essentials of computer programming for scientists and engineers using the C programming language. Topics include data types, file I/O, branching and control statements, loops, data arrays and functions. Computer applications will draw on practical problems in physics and engineering. Prerequisites: MATH 166 or consent of instructor. (F)

PHYS 250  Statics  Mim Cr. 3-Max Cr. 3
This course provides an understanding of equilibrium and the ability to analyze the forces in equilibrium situations. Topics covered include force and moment vectors, resultants, principles of statics, applications to simple trusses, frames and machines, distributed loads, hydrostatics, properties of areas, centers of mass, area moments of inertia, laws of friction and method of virtual work. Prerequisites: PHYS 161, MATH 166. Co- or prerequisite MATH 167. Co-listed as GENG 250. (Sp)

PHYS 279  Intro to Internships  Mim Cr. 1-Max Cr. 1
An experience in which the student learns and applies basic professional skills by performing on-the-job tasks and using classroom knowledge in practical situations. If a student is in the Cooperative Education program, then this course precedes PHYS 379: Internship. Prerequisites: Completion of PHYS 161 and 162, sophomore standing, permission of Physics department internship supervisor. (F)

PHYS 301  Advanced Physics Lab  Mim Cr. 3-Max Cr. 3
This is a writing intensive course. This laboratory familiarizes students with the statistical analysis of experimental data. Emphasis is placed on experimental design to minimize experimental uncertainty. Early in the semester experiments illustrating and applying Gaussian and Poisson statistics, least-squares fitting and propagation of errors are performed. These techniques are then used in experiments on advanced mechanical systems. Extensive use is made of computers in the analysis. Formal experiment writeups required. Prerequisites: PHYS 204, 264, 311, 362 and MATH 331. (F)

PHYS 311  Electronics: Circuits  Mim Cr. 4-Max Cr. 4
Lecture topics include Kirchhoff's laws, Thevenin's theorem, complex analysis, phasors, LabView data collection, and PSpice simulations. Circuits covered include filters, integrators, differentiators, resonant circuits, power supplies, and amplifying circuits. Resistors, capacitors, inductors, and operational amplifiers are discussed. The laboratory addresses safety and proper use of laboratory equipment such as power supplies, oscilloscopes, digital meters, data acquisition boards, etc. Prerequisites: MATH 167 and either PHYS 162 or 152 or consent of instructor. (F)

PHYS 350  Science and Art  Mim Cr. 3-Max Cr. 3
Both science and art offer models and interpretations of reality. Students in this course will compare how science and art have represented the concepts of space, time and light throughout history. (F, Sp)

PHYS 361  Mathematics of Phys & Eng  Mim Cr. 3-Max Cr. 3
This course is designed as a study of vector analysis through Stokes', Green's, and the divergence theorems; curvilinear coordinates; series solutions of differential equations; complex variables with emphasis on integration in the complex plane. Emphasis is on problem solving applications. Prerequisites: PHYS 152 or 162, MATH 167. (F)

PHYS 415  Thermodynamics  Mim Cr. 3-Max Cr. 3
Students will study the laws of thermodynamics, equations of state, free energy functions, phase changes and relationships between thermodynamic functions, with applications to thermodynamic systems. Includes an introduction to statistical mechanics. Prerequisites: PHYS 162 and MATH 266. (F, alternate years)
PHYS 441 Classical Mechanics Mim Cr. 4-Max Cr. 4
This course provides a comprehensive survey of advanced classical mechanics. Particle dynamics, central forces, accelerated frames of reference, rigid body mechanics, harmonic oscillations, Lagrange’s equations and Hamilton’s equations are examined. Prerequisites: PHYS 264, 361 and MATH 331. (F, a;termate urears)

PHYS 485 Seminar Mim Cr. 1-Max Cr. 1
This is a writing intensive course. Each student enrolled in seminar researches a special problem, writes a paper on the problem, presents a practice seminar to the seminar class, and presents a formal seminar and a written report to the physics department. Prerequisite: senior standing. (F, Sp)

PHYS 495 Undergraduate Research Mim Cr. 1-Max Cr. 2
Through this course, students can have an opportunity to work with a physics department staff member on an ongoing research project of mutual interest. The area of research is determined by the nature of projects currently underway. The course may be repeated. It is expected that the student will spend three hours per week during the entire semester per credit earned. A total of three credits may be applied to a physics major and two credits to a physics minor. Prerequisite: consent of instructor. (F, Sp)

PHYS 499 Independent Study Mim Cr. 1-Max Cr. 4
This course is an opportunity for advanced level physics students who wish to work independently on a topic or problem in physics. A paper describing the research is required. Prerequisite: junior or senior standing or consent of the faculty member advising the study. (F, Sp)

PHYS 793 Plan B Paper Mim Cr. 1-Max Cr. 3
This course provides faculty guidance in Plan B paper/project development. (F, Sp, SS)

PHYS 798 Independent Research Mim Cr. 1-Max Cr. 3

PLP 762 Oral & Written Commun Mim Cr. 1-Max Cr. 1
This is the first required seminar for graduate students enrolled in the principal licensure program. It gives prospective school principals the opportunity to integrate communication theory with effective on-the-job communication skills in a variety of school situations. (F)

PLP 763 K-12 Principalship Mim Cr. 3-Max Cr. 3
This is a core course in Educational Leadership, which examines the key concepts of school administration with emphasis on the skills needed to function as an effective guiding principal. (F)

PLSC 120 Plants and Society Mim Cr. 3-Max Cr. 3
This course will investigate how plants have been domesticated to promote the development of modern societies. Specifically, the course will focus on how global crop production interconnects societies, provides food, fiber, medicine and aesthetics. It will emphasize the contemporary issues of agriculture. Ethical citizenship will be emphasized in regards to plant science and social responsibilities. (F, Sp)

PLSC 161 Intro to Plant Science Mim Cr. 3-Max Cr. 3
Students will study plant morphology, reproduction, growth and development with a focus on economic utilization of plants and sustainable production practices. Students will examine the effects of environmental factors including light, temperature and water on growth and productivity. The laboratory actively engages students with live plants. Lab fee required. (F, Sp)

POL 110 Controversies in Politics Mim Cr. 3-Max Cr. 3
This course provides an in-depth analysis of a range of contemporary political issues and controversies. The topics vary by term. Possibilities include, but are not limited to, immigration,
healthcare reform, gun rights, reproductive rights, foreign policy, taxes, and environmental issues. Lectures are supplemented with student debates. (F, Sp, and as demand warrants).

POLS 114 American Government & Pol Mim Cr. 3-Max Cr. 3
This course is designed as an examination of American government at the national level including an assessment of the key philosophical and ideological roots of the American experience, the components of the policy making process, as well as major actors and institutions in the American national political system (F, W, Sp, SS).

POLS 212 Pol of Equal&Inequal in US (d) Mim Cr. 3-Max Cr. 3
The course will examine the theoretical and empirical aspects of politics and policies that advantage or disadvantage groups by reason of race, ethnicity, and other factors in the United States. (alternate years)

POLS 230 Intro to Pol Philosophy Mim Cr. 3-Max Cr. 3
This is an introductory course in political theory and ideology. Major concepts in political theory will be explored such as justice, equality, liberty, and political power and authority. Students will be introduced to major ideologies that have influenced and continue to influence politics in America and the rest of the world. These ideologies include civic republicanism, classical liberalism, conservatism, socialism, Marxism, and Green political thought. (Sp, F).

POLS 245 Intro to Comparative Pol (g) Mim Cr. 3-Max Cr. 3
This course introduces basic concepts and methods for the study of comparative politics. It will also survey and compare the political development, political processes, political institutions and public policies of various countries from three different categories: industrial democracies, Communist or Socialist systems, and Third World systems. (F)

POLS 260 Intro to International Rel (g) Mim Cr. 3-Max Cr. 3
This course introduces basic issues, concepts, and methods for the study of international relations. It surveys the evolution of the current international system, and examines major international political instruments such as war, trade, international organization, and international law. Current developments and issues in the international system are emphasized throughout the term. (Sp.)

POLS 279 Internship in Political Sci I Mim Cr. 2-Max Cr. 12
Internships strengthen a student's academic knowledge of politics through experiential learning. Possible sites include political campaigns, interest groups, and government agencies. Prerequisites: Political Science Major or Minor, and 4 courses in political science, or the Chair's permission. Internships must be approved by the internship instructor. (F, J-Term, Sp, SS)

POLS 309 Nietzsche to the Present Mim Cr. 3-Max Cr. 3
The course is an exploration of the major ideas and writers in the recent period of western political philosophy. The course covers the period from the mid-nineteenth century to the present and emphasizes the ideas of Nietzsche, Pragmatism, Freud, Ortega, Arendt, Existentialism, Phenomenology and Post-Structuralism. Co-listed as HIST and PHIL 309/509. (Sp, alternate years)

POLS 314 Women & Politics Mim Cr. 3-Max Cr. 3
In this course students will examine women's political movements, public policies which affect the relative status of women and men, the role of women in electoral politics and how ideas about gender have shaped political life. Our analysis will include examples from politics in the United State and also from other nations. Co-listed as Women's Studies 314. (alternate years)

POLS 369 Politics of the World Economy Mim Cr. 3-Max Cr. 3
This course introduces major theoretical approaches such as Regime Theory, Hegemonic Stability Theory and Dependency Theory to the international political economy. It also examines
major political issues in international trade/finance, global economic development, international organizations and global economic order. (alternate years)

POLS 480 Seminar: Political Science Mim Cr. 3-Max Cr. 3
This is a writing intensive course in which students review the process of conducting political science research. Students will be exposed to current research in various fields of Political Science and will choose a topic for independent research which they will conduct with faculty guidance. The research projects will be presented to the class. Prerequisites: POLS 200 and senior standing or consent of the instructor. (F)

POLS 490 Readings in Political Science Mim Cr. 1-Max Cr. 3
The course is designed for advanced students who desire a more intensive study and exploration of the literature in an area of concern within the discipline of political science. Prerequisite: previous coursework in political science and consent of instructor prior to registration for the course. (F, Sp, SS)

POLS 499 Independent Study Mim Cr. 1-Max Cr. 3
The course allows an in-depth exploration of some problem or phenomena identified within the discipline of political science. Prerequisites: previous coursework in political science and consent of instructor prior to registration for the course. (F, Sp, SS)

PSYC 101 General Psychology Mim Cr. 3-Max Cr. 3
Introductory behavioral science course which emphasizes research methods, biological basis of behavior, human development, learning, memory, social and abnormal behavior. Course is included in the Social-Behavioral Science area of the General Education program. (F, Sp)

PSYC 110 Careers in Psychology Mim Cr. 1-Max Cr. 1
This course is an introduction to psychology as a discipline and to the careers that are possible within psychology. Students will also learn about graduate school options within psychology and related fields. Prerequisite: Psychology Major. (F, SP)

PSYC 201 Behavioral Statistics Mim Cr. 3-Max Cr. 3
Course provides an introduction to descriptive and inferential statistical techniques used in Behavioral/Social sciences. Topics covered include the basic concepts of levels of measurement, statistical normality and randomness; the descriptive statistical techniques of central tendency, variation and correlation and the hypothesis testing of means of proportions. Prerequisites: WPT Math Score of 40+, or ACT Math Score of 20+ or Math 30 or a higher level math class. Course meets the mathematics requirement in the General Education program. (F, Sp)

PSYC 216 Research Methods Mim Cr. 3-Max Cr. 3
This course introduces the methods used by psychologists to conduct research. Special emphasis is placed on experimental research design (e.g., within- and between subjects approaches, factorial designs), application, and analysis. Students will complete research projects, conduct statistical analyses of data and use American Psychological Association writing style to communicate research findings. This is a writing intensive course. Prerequisite: PSYC 101, PSYC 201. (F, SP)

PSYC 250 Industrial & Org Psyc Mim Cr. 3-Max Cr. 3
This course examines the work-a-day problems in personnel, organizational and engineering psychology as applied to business. Topics covered include personnel selection, placement, training, the structure of organizations, leadership, management theory and the design of information displays, atmospherics and illumination in the work area. (Sp)

PSYC 260 Behavior Modification Mim Cr. 3-Max Cr. 3
This course examines the principles of behavior analysis and the techniques of behavior change. The latter include shaping, contingency management, prompting and counter-conditioning. The
application of behavioral principles in various environments is discussed, as well as self-change methods. Prerequisite: PSYC 101. (F)

PSYC 269 Health Psychology Mim Cr. 3-Max Cr. 3
The course provides an examination of topics related to health psychology. Topics include but are not limited to theories of stress and coping, theories of behavior change, psychological benefits of exercise, personality and well-being, examinations of the cultural influence on psychological health and well-being, examinations of patient-provider relationships and health care systems, as well as subtopics in positive psychology. Prerequisite Psyc 101 or instructor approval. (F, Sp)

PSYC 305 Learning & Motivation Mim Cr. 3-Max Cr. 3
This course acquaints students with findings, principles and theories within the field of animal learning. Traditional theories of learning are examined along with selected topics pertaining to the process of motivation. Course emphases include classical conditioning, operant conditioning and, to a lesser extent, social learning. Thus, students will implement both a classical conditioning and an operant conditioning procedure. Prerequisite: PSYC 216 or consent of instructor. (F, Sp)

PSYC 310 Memory & Thinking Mim Cr. 3-Max Cr. 3
This course examines theories and research findings in the field of cognitive psychology. Topics include the basic processes of attention, pattern recognition, memory and knowledge, as well as psycholinguistics. Special emphasis is given to applications to real-world tasks such as reading, studying and driving. Prerequisite: PSYC 216 or consent of instructor. (F, Sp)

PSYC 315 Psychological Measure & Eval Mim Cr. 3-Max Cr. 3
This course examines the current social, legal and psychometric concerns in psychological-educational measurement. Topics include history of measurement, legal and ethical issues, construction and analysis of tests, interpretation of scores and the technical considerations of reliability and validity. Prerequisite: Psychology 201. (F, SP)

PSYC 320 Psychology of Personality Mim Cr. 3-Max Cr. 3
This course studies the organization of thoughts, feelings, and behaviors that describe and explain people in general and each unique individual specifically. A review of the major theoretical approaches to personality along with current research related to those approaches are discussed. Prerequisite: PSYC 216 or consent of instructor. (F,SP)

PSYC 325 Abnormal Psychology Mim Cr. 3-Max Cr. 3
This course focuses on the description, etiology, and treatment of mental disorders. Diagnosis, assessment, methodology, and legal and historical issues concerning abnormal behavior are addressed. Prerequisite PSYC 216 or consent of instructor. (F, SP)

PSYC 335 Dev Psyc:Child & Adoles Mim Cr. 3-Max Cr. 3
This course explores research and theory in developmental psychology from conception through adolescence. Key topics include: prenatal development and birth, cognitive development, language development, parenting, identity and social development, and the influence of culture, ethnicity, and social class. Consideration is given to implications and application to real-life events and problems. Prerequisite: PSYC 216 or consent of instructor. (F, SP, and SS)

PSYC 336 Dev Psyc:Adulthood & Aging Mim Cr. 3-Max Cr. 3
This course explores research and theory in developmental psychology from emerging adulthood through old age and death. Key topics include the changing body; disorders of the brain; cognitive development, ageism, relationships; work and retirement, and death/dying. Consideration is given to the implications and application to real-life events and problems. Prerequisite: PSYC 216 or consent of instructor. (F and Sp)
PSYC 340 Animal Behavior Mim Cr. 3-Max Cr. 3
This course focuses on principles of animal behavior. Common topics include history of the study
of animal behavior; various perspectives on animal behavior such as ethology, comparative
psychology and behavioral ecology; methods of data collection; development and learning;
communication in animals; evolution and behavior genetics; sociobiology; and physiological
mechanisms. Prerequisite: PSYC 216 or consent of instructor. (Sp)

PSYC 350 Sensation & Perception Mim Cr. 3-Max Cr. 3
This course surveys the processes of sensation and perception at physiological, behavioral and
experiential levels. Topics include physiological and psychophysical research methods, sensory
processing, brain mechanisms of perception, behavioral correlates of perception, and issues of
perceptual impairment. Special emphasis is given to visual and auditory perception. Prerequisite:
PSYC 216 or consent of instructor. (F)

PSYC 355 Physiological Psychology Mim Cr. 3-Max Cr. 3
This course acquaints students with the basic physiological/biological foundations of behavior
and mental processes. Content includes methods employed by neuroscientists, anatomy,
development and function of the nervous system, motivational and emotional systems, drugs,
cognitive processes, brain injury, recovery mechanisms, psychopathologies, and treatment.
Prerequisite: PSYC 216 or consent of instructor. (F,Sp)

PSYC 360 Social Psychology Mim Cr. 3-Max Cr. 3
The purpose of this course is to introduce the student to the field of social psychology as a
subfield of psychology. This will include an examination of the individual's behavior within several
social contexts. Topics include social perception and cognition, attitudes and attitude change,
social influence, prosocial behavior, relationships, prejudice and racism, and aggression.
Prerequisite: PSYC 216 or consent of instructor. (F,Sp)

PSYC 378 Semester Abroad Research Mim Cr. 6-Max Cr. 6
This program combines the most significant aspects of foreign travel and research into a
meaningful and educational experience. Prerequisites: participation in INTS 377/577 Semester
Abroad Foreign Study Seminars, junior standing and 2.25 GPA.(F, Sp)

PSYC 379 Internship Mim Cr. 1-Max Cr. 3
This internship program places selected students in human service agencies, businesses,
industries, or organizations to provide opportunities to apply their knowledge of psychology. The
Internship site must be approved in advance of the work experience by the psychology
department. The intern's duties and responsibilities will be tailored to the needs of the sponsoring
organization and the background of the student. Prerequisites: 60 semester hour credits (at least
20 credits in psychology), 2.5 G.PA., and consent of department internship supervisor.

PSYC 425 Intro to Clinical Psych Mim Cr. 3-Max Cr. 3
The course serves as an introduction to the field of clinical psychology as a science and
profession. Included is a consideration of history, training, issues and problems associated with
the profession. In-depth analyses of clinical assessment, psychotherapies, community
psychology and therapeutic outcome studies are presented. Prerequisite: PSYC 101.(Sp)

PSYC 450 Senior Seminar Mim Cr. 2-Max Cr. 2
This course will allow you to practice applying psychological science to contemporary societal
questions and problems. As part of the course, we will discuss contemporary issues or problems
that are relevant to the science of psychology and practice reviewing the literature that relates to
each issue. Prerequisite: Senior Psychology Major, PSYC 216 or Consent of Instructor
In(F, SP).
This course is designed for students who desire intensive study of the literature of selected subjects in psychology or development of a project in psychology. Limited enrollment. Prerequisites: junior or senior standing, major or minor in psychology and consent of instructor. (F, Sp)

READ 705 Lang Arts Reading Teacher Mim Cr. 3-Max Cr. 3
This is a hybrid course offered partially on campus and partially online. The goal of this course is to help the student develop and deepen knowledge about writing processes, elements of written products, children's writing development, and thoughtful teacher practices that promote successful literacy learning in the K-12 classroom. In order to achieve this goal, we will develop links between research, and teaching practices. (F)

READ 760 Literacy Instruct Elem School Mim Cr. 3-Max Cr. 3
Thorough analysis of the knowledge base and current practices consistent with a constructivist view of elementary literacy. Examination and analyses of traditional and holistic approaches to elementary literacy curriculum processes including materials, instructional technology and classroom assessment alternatives. In-class practice integrating literacy skills and strategies into a child-responsive, developmentally appropriate elementary literacy program. Prerequisites for Reading Program licensure candidates: TED 316 or equivalent, two years regular classroom teaching experience, and READ 700. No prerequisites for other graduate students.

READ 765 Appraisal & Intervent Mim Cr. 3-Max Cr. 3
Formative and summative assessment instruments and procedures for the intensive appraisal of severe reading difficulties. Diagnostic experience and application of structured intervention strategies. Prerequisites: two years full-time licensed classroom teaching and at least two of the Reading Program Techniques courses (READ 622, READ 750, READ 761, TED 705) or permission of the instructor. (F)

READ 766 Supervision & Admin Read Prog Mim Cr. 2-Max Cr. 2
Exploration of the personnel, content, materials, organizational patterns, financial support, and evaluative and administrative procedures within the reading program. Attention is given to decisions to be made by the program administrator with emphasis on role, communication, and interaction of students, parents, community, and other educational personnel. Prerequisites: Two years full-time licensed classroom teaching, enrollment in a specialty graduate program, or permission of the instructor [normally taken concurrently with READ 779]. (F)

READ 779 Field Experience Mim Cr. 2-Max Cr. 2
Practicum experiences in public school settings, some of which must be under the direction of a qualified K-12 Reading Specialist. The candidate will work with teachers, administrators, parents, and other educational stakeholders to develop curriculum and carry out projects as needed to help develop and maintain components of a comprehensive reading program. Prerequisites: Two years full-time licensed classroom teaching, enrollment in a specialty graduate program, or permission of the instructor [normally taken concurrently with READ 766]. (F)

READ 798 Independent Research Mim Cr. 1-Max Cr. 3

SFED 200 First Aid & Basic Life Support Mim Cr. 1-Max Cr. 2
A study of emergency medical procedures and cardiopulmonary resuscitation as applied in the classroom and daily living. This course will provide certification with American Red Cross in first aid basics. (F, SP)

SIC 602 Action Research III Mim Cr. 1-Max Cr. 1
This course guides students through the data analysis process for their research. Offered third semester of each Shared Inquiry Community. Students must have completed SIC 601, 710, and 715.
SIC 720  Ed Psych for Tchng  Mim Cr. 3-Max Cr. 3
This course focuses on current knowledge in educational psychology, especially in teaching, learning, and motivation of students. Offered third semester of the Shared Inquiry Community. Prerequisites are SIC 601, 710 and 715.

SIC 725  Contemp Concerns in Ed  Mim Cr. 3-Max Cr. 3
This course focuses on current concerns in education, primarily in the area of the politics, law, policy, economics and culture of education in Wisconsin, in the US and in the world. Offered third semester of the Shared Inquiry Community. Prerequisites are SIC 601, 710 and 715.

SMGT 115  Env Sci & Sust  Mim Cr. 3-Max Cr. 3
This course presents an overview of the interrelationships between humans and the environment. The material presented in the first one-third of the course focuses on important ecological concepts. The remainder of the course deals with human influence on the environment and sustainable practices to avoid or ameliorate the negative impacts. Ecological concepts are used throughout to identify, understand, and provide a basis for proposing possible solutions to contemporary environmental problems. Overall, this course will provide the student with a better understanding of how humans can more positively affect the environment in which they live. Must be admitted SMGT major or have Program Director consent on space available basis. (F, Sp, SS)

SMGT 220  Systems Thinking  Mim Cr. 3-Max Cr. 3
In this course students will use systems thinking to apply the concept of sustainability in various business, social, and scientific contexts. Rather than looking at problems by analyzing their component parts, students will learn to analyze whole systems. Students will then model the relationships and behaviors to identify leverage points for change.

SMGT 230  Triple Bottom Line Acctg  Mim Cr. 3-Max Cr. 3
Students will be introduced to the discipline of financial and managerial accounting and learn how this information is used. Students will gain a basic knowledge of the preparation of financial statements and their analytical use. Further, students will explore how this accounting information is applied by managers in the decision-making process helping organizations meet the triple bottom line (strong profits, healthy environment, and vital communities). Prerequisite: Must be admitted SMGT major or have Program Director consent on space available basis. (F, Sp, SS)

SMGT 235  Econ in Society & Sustain  Mim Cr. 3-Max Cr. 3
General introductory course highlighting economic, social, and environmental issues facing society. In addition to covering traditional issues such as markets and prices (microeconomics), government economic management (macroeconomics), and international trade, it also introduces economic content into the analysis of selected topics such as poverty and discrimination, the environment, and the provision of government services. Critiques of conventional economic thought, within the context of systems thinking and ecological economics, are integrated throughout the course. Prerequisite: college algebra or equivalent; must be admitted to SMGT major or have Program Director consent on space available basis. (F, Sp, SS)

SMGT 240  Tech Writing Sust Mgt  Mim Cr. 3-Max Cr. 3
This course is designed for students to learn how to write clearly, logically and concisely; in other words, this course will help students become technical communicators. Assignments will include examples of triple bottom line concepts and environmental sustainability issues. Prerequisite: must be admitted to SMGT major or have Program Director consent on space available basis. (F, Sp, SS)
SMGT 310  Ecol and Sustainability  Mim Cr. 3-Max Cr. 3
Interrelationships of organisms with each other and their environments. Investigation into composition and dynamics of populations, communities, ecosystems, landscapes, and the biosphere with emphasis on sustainability. Online only. Prerequisite: Must have Introductory Biology or equivalent; must be admitted to SMGT major or have Program Director consent on space available basis. (F, Sp, SS)

SMGT 315  Global Environmental Chem  Mim Cr. 3-Max Cr. 3
An exploration of chemical environments as interdependent thermodynamic and kinetic systems. The "system/surroundings" perspectives of thermodynamics will be applied to systems of progressively larger size in order to arrive at the comprehensive view of the global environmental system. Prerequisite: Introduction to Chemistry and college algebra or equivalent, and must be admitted SMGT major or have Program Director consent on space available basis. (F, Sp, SS)

SMGT 320  Energy for Sust Mgmt  Mim Cr. 3-Max Cr. 3
Student will learn to apply basic engineering principles to existing and emerging technologies, thus providing a better understanding of energy production, consumption, and environmental impact, and examining how these principles relate to sustainable management. Topics cover a wide range of energy systems including nuclear, fossil fuels, wind, solar, biofuels and biomass. Prerequisites: Introduction to Chemistry and college algebra or equivalent, and must be admitted to SMGT major or have Program Director consent on space available basis. (F, Sp, SS)

SMGT 325  Nat. Res. Mgt.  Mim Cr. 3-Max Cr. 3
Examines the interdependence between natural resources associated with land, air, and water. Explores significant environmental issues regarding the policies and problems in the use and management of natural resources related to soils, vegetation, landscape within the context of social needs and sustainability. Prerequisite: must be admitted to SMGT major or have Program Director consent on space available basis. (F, Sp, SS)

SMGT 330  Market for Sust Entr.  Mim Cr. 3-Max Cr. 3
Analysis of an organization's opportunities to develop sustainability practices as they relate to the development of product, pricing, supply and distribution channels (retail, wholesale), promotion (advertising, sales promotion, public relations) and target markets. Prerequisite: Must be admitted SMGT major or have Program Director consent on space available basis. (F, Sp, SS)

SMGT 331  Sustainable Organization Fin.  Mim Cr. 3-Max Cr. 3
This course is an introduction to the theory and methods of organizational finance in sustainable management. Topics include financial statements; discounting and budgeting; uncertainty and risk/reward trade-offs; and assessing the financial implications of the triple bottom line (e.g. climate change, carbon trading, human resource management, and creating environmentally-conscious shareholder value). Prerequisite: Introduction to Statistics or equivalent, SMGT 230, SMGT 235; Must be admitted SMGT major or have Program Director consent on space available basis. (F, Sp, SS)

SMGT 332  Econ Env Sust. Mim Cr. 3-Max Cr. 3
Examines the interaction between market activity and the environment, applies economic analysis to the efficient and sustainable management of environmental goods and resources, and examines how economic institutions and policies can be changed to bring the environmental impacts of economic decision-making more into balance with human desires and the needs of the ecosystem. Prerequisite: College Algebra or equivalent and SMGT 235, admitted SMGT majors only or program advisor consent on space available basis. (F, Sp, SS)

SMGT 335  Mgt & Env Info Systems Mim Cr. 3-Max Cr. 3
This course discusses the major themes and the problem-solving approaches used while surveying the role of information systems in today's businesses, the technical foundation for understanding information systems by examining hardware, software, databases, networking
technologies, and tools and techniques for security and control. It also examines the core information systems applications businesses are using today to improve operational excellence and decision making. It also shows how to analyze and design information systems solutions to business problems. Prerequisite: SMGT 230; must be admitted to SMGT major or have Program Director consent on space available basis. (F, Sp, SS)

SMGT 340 Org Behavior and Sust Mim Cr. 3-Max Cr. 3
Management principles and theories underlying human behavior in organizations are investigated. Topics include personality, motivation, communication, decision-making, leadership, teamwork, ethics, power, diversity, and work stress. Constraints and opportunities of an "eco" friendly organization are realized. Prerequisites: Speech/Introduction to Communications, SMGT major or have Program Director consent on space available basis. (F, Sp, SS)

SMGT 350 Op Mgt and Sustainability Mim Cr. 3-Max Cr. 3
Introduction to the role of the operations function in a sustainable organization. The course will outline how green enterprises address linear programming; continuous and intermittent production processes; aggregate planning; inventory control; materials management; scheduling; project management; quality assurance; and operations. Prerequisite: UW College MAT 110 or equivalent, UW College MAT 117 or equivalent, admitted SMGT majors only or program advisor consent on space available basis. (F, Sp, SS)

SMGT 360 Environmental and Sust Policy Mim Cr. 3-Max Cr. 3
SMGT 360 is an online course. Topics include the spectrum of historical, theoretical and technical issues applicable to sustainable management of natural resources, environmental quality standards and risk management. Administrative structures that form the basis for selecting appropriate responses to complex management problems faced by industry, government and non-governmental agencies are identified. The historical development and current framework of public policy are investigated and specific foundational legislation is critiqued. Prerequisite: SMGT 115. (F, Sp, SS)

SMGT 370 Logistics, Suppl Mngt, Sustain Mim Cr. 3-Max Cr. 3
This course provides an introduction to the concepts, functions, processes, and objectives of logistics and supply chain management activities. It covers those activities that are involved in physically moving raw materials, inventory, and finished goods from point of origin to point of use or consumption. It covers the planning, organizing, and controlling of such activities, and examines the role of supply chain process in creating sustainable competitive advantage with respect to quality, flexibility, lead-time, and cost. Topics include customer service, inventory management, transportation, warehousing, supply chain management, reverse logistics, green supply chains and international logistics. Prerequisite: SMGT 350 (Operations Management and Sustainability), SMGT major or Program Director consent on space available basis. (F, Sp, SS).

SMGT 430 Intl Mngt Sust World Mim Cr. 3-Max Cr. 3
Analysis of the theory and practice of managing international organizations. This includes socio-cultural aspects and group dynamics of international business and service organizations through the study of sustainable management practices. Implementation of a triple bottom line solution to organizational problems will be emphasized. Prerequisites: Must be a SMGT major or have Program Director consent on space available basis. (F, Sp, SS)

SMGT 435 Intl Devt and Sust Mim Cr. 3-Max Cr. 3
Historical roots of the idea of development, economic theories of growth and their implications for sustainability, and interrelationships between population growth, food security, poverty, inequality, urbanization, technological change, international trade and environmental change at local, regional and global scales. Contemporary issues and alternatives. Prerequisites: Must be SMGT Major with senior standing or have Program Director consent on space available basis.
SMGT 460  Environment and Society  Mim Cr. 3-Max Cr. 3
Introduce the fundamentals of human-environmental interaction; a grasp of how these interactions create problems; and how the elements of social, technological, and personal choices combine to overcome them. Prerequisites: Senior standing and SMGT Major or have Program Director consent on space available basis.

SMGT 495  Sustainable Management Capstone  Mim Cr. 3-Max Cr. 3
An application and study of sustainable management through the solution of an industry-based project. Implementation of a triple bottom line solution to industrial problems will be emphasized. Prerequisites: SMGT Major and senior standing. (F, Sp, SS)

SOCI 100  Introduction to Sociology  Mim Cr. 3-Max Cr. 3
This course is designed as an introduction to the scientific study of the structure of human societies and the relationships of individuals in society. Basic concepts are discussed and representative sociological topic areas are presented. (F, Sp)

SOCI 200  Sociological Inquiry  Mim Cr. 3-Max Cr. 3
Examines the scientific method as used in sociology. Emphasis is placed on how evidence is assembled to produce explanations of social phenomena. Students will design a research proposal including a research question and literature review. Prerequisite: SOCI 100. Offered yearly

SOCI 201  Theories of Sociology  Mim Cr. 3-Max Cr. 3
An introduction to social and cultural theory through the reading of theorists such as Durkheim, Merton, Mills, Marx, Mead, Comte, and others and the analysis of major theories. Prerequisites: SOCI 100 (F, Sp)

SOCI 210  Social Problems  Mim Cr. 3-Max Cr. 3
The course addresses a variety of social problems in a systematic, analytic, and critical manner. Some of the topics covered in this course include: gender inequality, poverty, crime and criminal justice, drug and alcohol use, education, the sex industry, population and ecology. Prerequisite: SOCI 100 or consent of instructor. (Offered yearly)

SOCI 220  Sociology of Diversity (d)  Mim Cr. 3-Max Cr. 3
An introduction to the diversity of American society and the ways in which diversity is socially and culturally constructed and maintained. Components include Native Americans, African-Americans, Hispanic-Americans, Asian-Americans, religious minorities, and gender, the history and diversity within each group, relations among them and issues of social class.

SOCI 231  Sociology of Globalization  Mim Cr. 3-Max Cr. 3
This course uses a sociological perspective to address contemporary changes in the political, economic, and cultural realms. It is concerned with the way in which institutions, organizations, and people are responding to, shaping, and resisting the globally interconnected nature of modern life. Prerequisite: SOCI 100 or ANTH 100 or consent of instructor. (F)

SOCI 250  Intro to Social Statistics  Mim Cr. 3-Max Cr. 3
Examines the techniques of statistical analysis used in the social sciences. The focus is on both descriptive and inferential statistics. Topics of interest include measures of central tendency and dispersion, sampling, contingency analysis, correlation and basic multivariate techniques. Prerequisites: SOCI 100, or ANTH 100, or PSYC 101, or POLS 114.

SOCI 300  Research Methods  Mim Cr. 3-Max Cr. 3
This is a writing intensive course. It examines the techniques of social investigation and data analysis. The emphasis is on the methods for conducting sociological research focusing on both quantitative and qualitative data collection and analysis techniques. Prerequisites: SOCI 200 and SOCI 250. (F, Sp)
SOCI 314  Faces of Culture  Mim Cr. 3-Max Cr. 3
The full extent of the human imagination is revealed in cultural diversity. This course highlights cultural variation, human adaptability, and the skills of the anthropologist in studying and explaining cultures. Co-listed as ANTH 314. Prerequisites: SOCI 100 or ANTH 100 or consent of instructor. (F, Sp)

SOCI 316  Social & Cultural Change  Mim Cr. 3-Max Cr. 3
This course examines the causes and consequences of social change. Various approaches are introduced. Special attention is devoted to the individual's role in creating and dealing with social change. Co-listed as ANTH 316. Prerequisites: SOCI 100 or ANTH 100 or consent of instructor.

SOCI 342  Sociology of Family  Mim Cr. 3-Max Cr. 3
An examination of the social structure and social interactions in families. Cross-cultural comparisons are examined as well as issues pertinent to western family life: mate selection, family life cycle, gender roles, parenting, abuse, and death. SOCI 100 or consent of instructor. Co-listed as WMST 342. (Yearly)

SOCI 379  Internship in Sociology  Mim Cr. 6-Max Cr. 12
The course is designed for sociology majors desiring actual work experience in a supervised setting such as human resources, human services, business, law, etc. Only 6 credits may apply to the major. Prerequisites: sociology major, 2 sociology, 2.25 overall GPA, 2.5 sociology GPA, admission to the Sociology Internship Program. (F, Sp, SS)

SOCI 389  Special Topics in Sociology  Mim Cr. 3-Max Cr. 3
This course provides an opportunity to study a selected topic in Sociology. Sample topics include death and dying, population/demography, political sociology, etc. Prerequisite: SOCI 100 or consent of instructor.

SOCI 480  Senior Seminar  Mim Cr. 3-Max Cr. 3
This is a writing intensive senior seminar enabling majors to integrate and apply knowledge from previous sociology courses. It also serves as the cornerstone of the department's assessment efforts. Prerequisites: 27 credits of sociology including SOCI 300 and SOCI 400 and senior status. (F, Sp)

SOCI 490  Readings  Mim Cr. 1-Max Cr. 2
For majors and minors in sociology or criminal justice seeking additional reading relating to sociology or criminal justice. Students must complete an application and receive departmental approval before registering. Limited to 2 credits per semester and a total of 4 credits. Prerequisites: 18 credits of sociology/criminal justice and major in sociology or minor in sociology or criminal justice. (F, Sp, SS)

SOCI 499  Independent Study  Mim Cr. 1-Max Cr. 2
For majors and minors in sociology or criminal justice seeking some special experience and background relating to sociology or criminal justice. Students must complete an application and receive departmental approval before registering. Limited to 2 credits per semester and a total of 4 credits. Prerequisites: 18 credits of sociology/criminal justice and major in sociology or minor in sociology or criminal justice. (F, Sp, SS)

SOIL 120  Introduction to Soil Science  Mim Cr. 3-Max Cr. 3
Soils serve many diverse and life-sustaining roles. This course will examine the formation of soils along with their physical, chemical and biological properties. Sustainable use and management of soils will also be addressed. (F, Sp)
SOIL 250  Soil Profile Descriptions Mim Cr. 2-Max Cr. 2
This course emphasizes identification of soil physical properties, soil profile descriptions, interpretation of soil properties/characteristics for land use suitability, soil mapping, and the use of soil surveys/data sources. Laboratory component includes outdoor field activities and field trips. Saturday field trip required. Prerequisite: SOIL 120. (F)

SOIL 311  Soil Fertility Mim Cr. 4-Max Cr. 4
The influences of chemical and biological properties of soils on plant growth, fertility requirements, fertilizers and their applications and the methods and instruments used for fertility analysis of soils will be studied. Prerequisites: SOIL 120, CHEM 120 or CHEM 121, and MATH 146.(F, Sp)

SOIL 325  Hydric Soils & Wetland Env Mim Cr. 3-Max Cr. 3
A lecture and field study of the characteristics that make hydric soils and wetlands unique environments. Formation and interaction between hydric soils, wetland vegetation, and hydrology creating specific wetland types will be studied. Functions and values of wetlands to society and the regulatory aspects of wetland use and protection will be considered. Prerequisites: SOIL 120 and BIOL 100 or HORT/CROP 161.(F)

SOIL 440  Soil and Water Conservation Mim Cr. 4-Max Cr. 4
Conserving soil and water resources are critical issues in the United States and worldwide. This course will examine methods conserving soil and water while maintaining high levels of crop production, of predicting and controlling soil erosion from cultivated land, of conserving soil on rangeland, forestland and construction sites and of conserving water resources, including wetlands. Prerequisites: Computer MATH 146 and SOIL 120. Co-listed as SOIL/AGEN 440. (F, Sp)

SOIL 490  Independent Study Mim Cr. 1-Max Cr. 3
Skills involved in selected procedures and techniques applied to agronomic practices will be utilized. Prerequisite: consent of instructor.(F, Sp)

SOIL 589  ST: Soil Science Mim Cr. 3-Max Cr. 3

SOWK 150  Intro to Social Work Services Mim Cr. 3-Max Cr. 3
This course is designed to provide an introduction to social work services. It will include an examination of required skills, settings for practice, client populations, special issues, history of social work services, current social service programs and policies, and how social work differs from other professions. It will also provide an opportunity to examine the values/ethics integral to social work practice and begin to explore the compatibility of personal value systems with those of the profession.(F, Sp)

SOWK 205  Intro to Social Work&Welfare Mim Cr. 3-Max Cr. 3
This is a writing intensive course. This course is designed to provide an introductory knowledge of social welfare and social work, the philosophy of the methods of social work practice and human behavior in macro systems, the current issues in social welfare, the three major perspectives of social welfare/social work and the professionalization of social work. An integral part of the course is the analysis of personal values and ethics in conjunction with an understanding of social work values and ethics. Also included is a beginning understanding of the systems perspective and generalist social work practice. Prerequisites: SOCI 100, SOWK 150 or consent of instructor.(F)

SOWK 250  Use, Abuse & Addiction Mim Cr. 3-Max Cr. 3
This course will introduce students to theory and research relevant to understanding the process of addiction. It will include information on problem identification as well as strategies and skills necessary for entry level work with persons who are addicted. It will also include content on prevention. Although the major focus of this course will be on chemical dependency, content will be included on other addictions including eating disorders and gambling. This course will
emphasize the impact of addiction on the family and other social systems. It will be taught from a social work perspective, however, it will be useful for any student planning on becoming a helping professional.(F)

SOWK 300 Research Methods Mim Cr. 3-Max Cr. 3
This is a writing intensive course. Designed to enable students to learn the value of research for understanding human behavior and improving social work practice decisions. The emphasis is on basic concepts, the research process, research designs (particularly single subject designs), evaluation research, collecting and analyzing data, qualitative research, writing reports and ethical issues. Prerequisite: PSYC 201 or MATH 226 or ECON 326.(Sp)

SOWK 324 Theory & Practice I Mim Cr. 3-Max Cr. 3
This course in basic helping processes will help students integrate social work values and ethics as well as teach students the problem solving process integral to social work practice with individuals, families, groups, organizations and communities. It will provide the students with an introduction to basic communication skills needed at all levels of generalist social work practice and with a beginning opportunity to practice those skills at the individual system level. Prerequisites: SOWK 150, 205, 215 and admission to major.(F)

SOWK 389 Special Topics in Social Work Mim Cr. 3-Max Cr. 3
This course provides students with entry level knowledge and skills appropriate for working in the diverse areas identified as child welfare including: physical/sexual abuse, neglect, adoption, foster/institutional care, juvenile court/corrections, as well as children who are at risk because of chemical abuse/dependency, poverty, divorce, discrimination, etc. It also covers many of the philosophical, political and ethical issues which are a challenge in child welfare policy and program development today. (Bi-yearly)

SOWK 424 Crisis Intervention & Adv Interv Mim Cr. 3-Max Cr. 3
This is a senior level practice course designed to explore and develop the knowledge and skills used by social workers in acute human helping contexts. The major focus of this course is on the skill development of use-of-self in interviewing and problem solving in difficult psychosocial contexts, including individual, family, and mass crisis. Prerequisites: SOWK 325, concurrent registration with SOWK 472.(F)

SOWK 472 Social Work Field Instruction Mim Cr. 6-Max Cr. 6
Students are given direct practice experience in a community agency to gain an in-depth understanding of the activities and programs of an agency, and, most important, to begin integrating social work knowledge, skills, values and ethics in a practice setting. The student spends 225 hours both fall and spring semesters at a social work agency for six credits each semester. Students are also required to attend weekly meetings with the faculty liaison and register concurrently for SWK 480 and 426 (fall semester) and SOWK 481 and 424 (spring semester). Prerequisites: SOWK 300, 325, 350, and admission to Field Placement Program.(F, Sp)

SOWK 480 Senior Integrative Seminar Mim Cr. 3-Max Cr. 3
This course is designed to be taken concurrently with field instruction. The student will engage in a semester long process of exploring the integration of social work/social welfare practice knowledge, skills, values and ethics with organizational tasks, responsibilities and policies preparatory to their entering the field of generalist practice. Prerequisite: concurrent registration in SOWK 472.(F)

SOWK 490 Readings in Social Work Mim Cr. 1-Max Cr. 2
The course is designed for social work majors. Student must complete an application and receive department approval before registering. Students are limited to three credits per one semester and a total of four credits. Prerequisite: Junior status.(F,Sp)
SOWK 499  Independent Study: SOWK  Mim Cr. 1-Max Cr. 2
The course is designed for social work majors. Student must complete an application and receive department approval before registering. Students are limited to two credits per semester and a total of four credits. Prerequisite: junior status.(F,Sp)

SPAN 101  Beginning Spanish I  Mim Cr. 4-Max Cr. 4
An introduction to Spanish through conversation, writing practice and cultural material. 101 presumes no previous study of the language.(F)

SPAN 201  Intermediate Spanish I  Mim Cr. 3-Max Cr. 3
Review of basics of Spanish grammar; conversation, reading, and culture. Prerequisite: SPAN 102 or test-out.(F)

SPAN 301  Spanish Comp & Conversation  Mim Cr. 3-Max Cr. 3
Conversation, composition and stylistics of Spanish. Emphasis is on developing proficiency in active skills, i.e., speaking and writing. This is a writing intensive course. Prerequisite: SPAN 202 or test-out.(F)

SPAN 345  Latin American Civ to 1800  Mim Cr. 3-Max Cr. 3
A language proficiency course that builds intercultural communication skills through the study of Latin American cultural history and civilization from pre-Columbian times to 1800. The course is taught in Spanish. Prerequisite: SPAN 202 or consent of instructor.(F, alternate years)

SPAN 350  Spanish Phonetics  Mim Cr. 3-Max Cr. 3
This course covers techniques of perfecting and the practice of teaching the pronunciation of Spanish. Prerequisites: SPAN 201 or equivalent or consent of instructor. (Sp)

SPAN 352  Survey of Spanish Literature  Mim Cr. 3-Max Cr. 3
A language proficiency course that builds intercultural communication skills through the study of highlights of the literature of Spain from the writers called the Generation of 1898 to the present. The course is taught in Spanish. Prerequisite: SPAN 202 or consent of instructor.(Sp, alternate years)

SPAN 372  Span for the Trades  Mim Cr. 3-Max Cr. 3
Intended to introduce students to the use of professional Spanish in the trades and professions in the Hispanic world, global, regional, and national trends in Spain and in Latin America are evaluated through the study of trades and professional organizations that are in effect today. Taught entirely in Spanish. Prerequisite: Spanish 301 or consent of instructor.

SPSY 651  Diversity, Soc & Cultural  Mim Cr. 3-Max Cr. 3
As future school psychologists, students are expected to engage in advocacy practices that promote equity and social justice. This course will provide students with knowledge of issues related to diversity, and skills to engage in cross-cultural services. This course begins the process of acknowledgement of individual differences and the understanding of the various socio-, cultural, and linguistic characteristics of the United States. Prerequisite: Standing as a graduate student in school psychology or consent of instructor. (F)

SPSY 701  Intro to School Psychology  Mim Cr. 3-Max Cr. 3
The introductory course is designed to acquaint students in school psychology with a variety of contemporary issues pertinent to the practice of psychology in the schools. Included are discussions of the development of school psychology as a profession, delivery of school psychological services involving direct and indirect means, current practices in school psychology, professional ethics and responsibilities, and challenging issues in the field. Special emphasis is given to the various roles and functions of practicing school psychologists. The provision of school psychological services to diverse populations is also reviewed, and the
concepts of data-based decisions and evidence-based practice is introduced. Prerequisite: Standing as a graduate student in school psychology or consent of instructor. (F)

SPSY 745 Psychoed Appraisal I Mim Cr. 3-Max Cr. 3
This advanced appraisal and intervention course builds on the introductory SPSY 622 course. SPSY 745 emphasizes advanced skill development in cognitive assessment techniques. Skills in the administration and interpretation of several cognitive ability instruments are emphasized. Culturally responsive evaluation practices and linking assessment results to school instructional strategies are addressed. Prerequisite: SPSY 622 and standing as a second-year graduate student or consent of instructor. (F)

SPSY 769 School Consult/Collaborat Mim Cr. 3-Max Cr. 3
This course serves as an introduction to the theories and techniques associated with school-based consultation and home-school collaboration. Emphasis is placed on assisting the student in developing the awareness, knowledge, practical skills, and interpersonal characteristics necessary in collaborating with individual educational professionals, families, and organizations in best meeting the academic, social, emotional, and behavioral needs of students. Students will have the opportunity to apply newly-constructed knowledge and skills through supervised consultation casework. Prerequisite: standing as a third-year graduate student or consent of instructor. (F)

SPSY 771 Practicum I Mim Cr. 4-Max Cr. 4
The practicum courses provide an opportunity for supervised field experience in the profession of school psychology. The practicum student works a minimum of 20 clock hours a week in the public schools and is supervised by both a university school psychology professor and a certified school psychologist on site. The major requirements of the practicum include engaging in a minimum of 600 clock hours of supervised experience in assessment, intervention, consultation, and group and individual counseling of students. Prerequisite: standing as a third year school psychology student and permission of instructor.

SPSY 775 Internship I School Psych Mim Cr. 5-Max Cr. 5
This course is associated with the fall semester of the final field experience for school psychology candidates. Interns complete 1200 or more hours (at least 600 of which must occur in a school setting), inclusive of site and program expectations of a varied-role experience. University-based supervision and an average of two hours a week of field-based supervision by a qualified school district school psychologist are provided. An internship is required in order to apply for listing in the National School Psychology Certification System and to complete School Psychology Programs approved by the National Association of School Psychologists. Prerequisite: standing as a fourth year school psychology student and faculty recommendation. (F)

SPSY 797 Directed Research-Final Mim Cr. 1-Max Cr. 1
Building on progress made in SPSY 795 and SPSY 796, students write a final research manuscript following APA publication manual style and standards. Students present their research findings to the faculty and submit the manuscript for publication or for additional local, regional or national presentation. Prerequisite: SPSY 796. (F)

SPSY 798 Independent Research Mim Cr. 1-Max Cr. 3
This course is designed to provide an opportunity for individual student-faculty cooperation in developing a research topic.

SPED 330 Introduction to Special Educ Mim Cr. 3-Max Cr. 3
This is a survey course examining the general aspects of the exceptional child. Emphasis centers on the historical and legislative issues, definitions, eligibility criteria, and characteristics of exceptional individuals; models for delivery of services; individualized education programs; and examples of accommodative techniques in the classroom and home. Field experience (to fulfill
human relations hours) is required for all education majors in the course. Prerequisite: Junior standing and TED 120 or 155, or P ED 161, or AGED 210, or COMD 275.(F, Sp, SS)

SPED 530 Exceptional Child Mim Cr. 3-Max Cr. 3
This is a survey course examining the general aspects of the exceptional child. Emphasis centers on the historical, philosophical and social background leading to legislative provisions for individuals with disabilities; definitions and eligibility criteria of each area of disability to include referral procedures in terms of when, how and where; models for delivery of services; multidisciplinary staffing procedures; individualized education programs; due process; characteristics of various exceptionalities including gifted and talented and attention-deficit disorders; and examples of accommodative techniques in the classroom. The impact of the diversity of issues posed by the environment and people surrounding persons with disabilities is a major focus. Attention is also directed toward working with parents and community agencies. Identification of high-risk students within each area of exceptionality is examined. Current issues and trends and other controversies are examined briefly. Field experience, which can be part of the human relations component for education majors only, is a requirement of the course.

TED 120 Education and Technology Mim Cr. 3-Max Cr. 3
The course provides an overview of middle and secondary education, with an emphasis on the integration of learning technologies. Specific topics, such as various components of the teaching profession, purpose of schools, school administration and governance, curriculum, standards and lesson plans will be introduced. Students will gain a working knowledge of instructional technology tools used in support of project based Field Experience: requirement of 8 hours per semester arranged by field experience office. Prerequisites: Completed 12 credits and 2.5 combined GPA or higher. Materials fee required. (F,Sp)

TED 155 Intro Tech Int Ref Multi Mim Cr. 2-Max Cr. 2
Students gain a working knowledge of instructional technology tools used in support of project-based learning. Students produce a Reflective Multimedia Portfolio organized around the Wisconsin Teaching Standards. This electronic portfolio will showcase artifacts and reflections required for the completion of the Elementary Education program and begin to address D.P.I certification requirements. This course explores the effective integration of instructional technology in the elementary classroom.

TED 211 Educational Psyc: Elem Educ Mim Cr. 5-Max Cr. 5
This is a writing intensive course designed to develop an understanding of psychological theories related to education. Six major areas of focus include: development, learning motivation, measurement and evaluation, classroom management, and individual differences. Students learn instructional application of each area through reading about, and discussing relevant theories. Students reflect on what they are learning through analyzing case studies. Field Experience: Elem Ed = 10 hours, Sec Ed = 25 hours during the semester outside of lecture. Prerequisites: 2.5 GPA, sophomore standing, TED 120, or 155, or COMD 275, or P ED 161. Materials fee required. (F, Sp)

TED 212 Educ Psyc: Middle & Sec Educ Mim Cr. 5-Max Cr. 5
This is a writing intensive course designed to develop an understanding of psychological theories related to education. The focus includes development, views of learning, instructional applications of learning theory, concepts of motivation and implications for motivating students, classroom management, individual differences and evaluation. In addition to reading about and discussing these theories, students reflect on what they are learning through analyzing case studies. Prerequisites: 2.5 GPA or higher, TED 120, AGED 201 or P ED 161, department consent. Field Experience: Required 25 hours outside lecture. Materials fee required. (F,Sp)

TED 225 Dev Learn Exper of Children Mim Cr. 3-Max Cr. 3
This course teaches the basic aspects of child development and child study. It is designed to provide an understanding of the interrelatedness of the theories of child development and an
understanding of the important factors that affect the young child's development. Emphasis of this course lies in observational, recording and evaluation techniques of the young child's individual development. Prerequisite: TED 211 or Co-requisite TED 211. (F-face-to-face, Sp-online)

TED 252 Found of Multicultural Ed (d) Mim Cr. 3-Max Cr. 3
This course is designed to provide students with an opportunity to gain a meaningful understanding of multicultural education. Students will study the effects and influence of cultural diversity in American education. The topics of cultural diversity include ethnicity and race, gender, SES, religion, exceptionality, language, and learning styles. Students will also study current affairs that influence the educational decisions as they relate to multicultural education. All topics will be studied within the context of history, differing philosophies, and various theories and practices of multicultural education in the United States. Field Experience: Lab experience (participation in the Flacon Tutors Program required). Transportation is provided. Prerequisites: TED 120 or 155 or P ED 161, or AGED 201 or COMD 275. Materials fee required. (F, Sp, SS)

TED 255 Children's Lit for Elem Educ  Mim Cr. 3-Max Cr. 3
Participants will learn to critically select and creatively present genres of children's literature with consideration for the developmental needs of elementary school students. The course includes content which supports the exploration of the cultural history and value of literature and storytelling. This course also supports the exploration of the elements of literary genres, the nature of reader response and ways to involve children in literature. (F, Sp)

TED 289 ST: Teacher Education Mim Cr. 1-Max Cr. 3
TED 289 ST: Teacher Education Mim Cr. 0.5-Max Cr. 0.5
TED 289 ST: Teacher Education Mim Cr. 3-Max Cr. 3
TED 289 ST: Teacher Education Mim Cr. 0.5-Max Cr. 0.5
TED 289 ST: Teacher Education Mim Cr. 2-Max Cr. 2
TED 289 ST: Teacher Education Mim Cr. 3-Max Cr. 3
TED 310 Elem Tech in Language Arts Mim Cr. 4-Max Cr. 4
The purpose of this course is to provide opportunity for intensive and systematic study of the skills required to communicate successfully. Coupled with each skill component will be a practical and realistic demonstration of current teaching practices known to be effective in teaching the language arts in grades K-9. Students will have the opportunity to implement ideas from class in the field component of the course. Prerequisite: Admission to Teacher Education. Materials fee required. (F, Sp)

TED 311 Elem Tech Social Studies  Mim Cr. 4-Max Cr. 4
This course acquaints the future teacher with objectives, materials, strategies, and types of evaluation for the effective teaching of concepts, skills, and values in elementary/middle school grades K-9 social studies. Opportunity will be provided to work with children and school personnel while having the guidance of the course instructor and elementary classroom teachers. Prerequisite: Admission to Teacher Education. Materials fee required. (F, Sp)

TED 312 Elem Techniques Science  Mim Cr. 4-Max Cr. 4
This course is designed to teach students how to write effective lesson plans for hands-on, minds-on, hearts-on science activities. A constructivist approach, one that stresses the relationships between objects and events, concepts and principles will be followed. Students learn how to construct lesson plans in a way that corresponds to the way scientists construct knowledge. There will be ample opportunities to present these lessons to elementary students
and to evaluate results. Prerequisite: Admission to Teacher Education. Materials fee required. (F, Sp)

TED 315  Elem Tech in Mathematics  Mim Cr. 4-Max Cr. 4
This course addresses two major areas: 1) what mathematics should be taught in elementary schools and 2) how elementary-aged children learn mathematics. Emphasis will be placed on specific methods, instructional materials and evaluation procedures. Opportunities will be provided for students to use a wide variety of manipulative materials and to become actively involved in their own learning. Students will have opportunities to apply ideas from class in the field component of the course where they will be asked to reflect on their lesson planning and teaching. Prerequisites: Admission to Teacher Education, MATH 246 and 247; TED 310, 311 and 312. Materials fee required. (F, Sp)

TED 316  Developmental Reading  Mim Cr. 4-Max Cr. 4
This course addresses reading as a developmental process in grades K-6 with an emphasis on meeting the needs of individual learners. Students develop knowledge of reading assessment tools and of how to match assessment results to instructional strategies. They apply their knowledge by developing a Single Child Portfolio: they assess a focus child in their practicum setting and instruct the child based on their assessment results. Experiences in critical analysis of current materials are included. Development of the reflective practitioner in social, cultural and psychological contexts is emphasized in this course. Prerequisites: Admission to Teacher Education, TED 310, 311 and 312. Materials fee required. (F, Sp)

TED 317  Reading Practicum  Mim Cr. 4-Max Cr. 4
This course is designed to provide future teachers with directed practice in teaching reading to small groups of students in school settings, K-9. Experiences in the planning and preparation of lessons, modification of lesson procedures and materials to fit student needs, and the ongoing evaluation of student progress are included. Prerequisites: Admission to Teacher Education, TED 310, 311 and 312. Materials fee required. (F, Sp)

TED 321  Early Childhood Lit 1  Mim Cr. 3-Max Cr. 3
This 3 credit course is the first of two consecutive literacy courses for the Early Childhood Comprehensive Major and will fulfill half of the DPI knowledge and practice requirements for early childhood literacy development. The course will focus on pre-elementary literacy strategies. Prerequisite: Associate Degree in Early Childhood. (F)

TED 323  Content Tech K-3 Math I  Mim Cr. 3-Max Cr. 3
This course addresses two major areas: 1) how number and operations concepts are taught in grades K-3 and 2) how children in grades K-3 learn mathematics. Emphasis on the development of number concepts and properties. Course includes a field component. Prerequisites: Completion of Associate in Early Childhood Education or by consent of instructor. Materials fee required. (F)

TED 325  Diversity in Early Child (d)  Mim Cr. 3-Max Cr. 3
This course is designed to provide students an opportunity to examine a wide variety of topics on multicultural education that focus on education as a social justice and change agent. Through the examination of major themes within multicultural education, students will engage in critical analysis, reflect upon their own beliefs and values, and consider ways in which schools and educators can promote the development of equitable education in the U.S. Focus will be on a mixture of the following topics: gender; ethnicity; race; language; culture; and/or social class and economic opportunity. Prerequisites: Associate Degree in Early Childhood or permission the instructor. (Sp).

TED 330  Infant/Toddler Prog  Mim Cr. 3-Max Cr. 3
This course provides students with guidelines and practice for meeting the developmental needs of young children in infant/toddler programs. The course content will apply developmental
theories to the curriculum of care and play of the infant and toddler. Students will have the opportunity to practice observation skills and will have some experience assisting in group care of infants and toddlers. Students will engage in observation and environment and curriculum planning taking into account developmental needs of individual children, patterns of interaction between adults and children, health and safety standards, social-cultural differences and evaluation of infant/toddler program models. Field experience of approximately 18 hours providing the opportunity for observation and hands-on experience is incorporated in the course. Prerequisite-corequisite: TED 225. (F, Sp)

TED 332 Preschool Curriculum Mim Cr. 3-Max Cr. 3
This course acquaints students with the theory and background for using developmentally appropriate practices with preschool children. Students study effective methods and materials to develop concepts, skills and values in early childhood settings, including 4-K. Pre-practicum experience (12 hours) provides opportunity to observe and work with children and families while under the guidance of a cooperating teacher and with instructor consultation. Prerequisite: TED 155 and 225. Materials fee required. (F, Sp, SS)

TED 335 Kindergarten Curric & Mater Mim Cr. 3-Max Cr. 3
Course work focuses on simulated experiences to guide students in developing an integrated curriculum approach for the kindergarten classroom. Special emphasis is placed on concept and skill development, critical thinking, and problem solving as it relates to the developmental capacities of kindergarten children. The preparation of the learning environment, classroom organization and management, the teacher's role and current practices are critically examined. The political, economic, historical and social issues which have contributed to changes in kindergarten curriculum and teaching methodology are discussed. Prerequisites: TED 332. Materials fee required. (F)

TED 345 Parent Educ & Family Dev Mim Cr. 3-Max Cr. 3
This course provides students with a comprehensive study of family development, the parent/child/caregiver triad, parent involvement, family education models, diversity among family and child rearing practices, effective home-school-community relationships, rights and responsibilities of parents and children and resources for home-school programs. Materials fee required. (F)

TED 350 PK-Early Elem Learn Challenges Mim Cr. 5-Max Cr. 5
TED 350, an introductory course dealing with issues of exceptionality in children ages 3-9 years, is for Early Childhood Comprehensive Majors. Emphasis is on legislative provisions for young children with disabilities; referral procedures in terms of when, how, and where; characteristics of exceptionalities; development of relationships with parents of young children; and accommodation techniques for use in the classroom and at home. Prerequisite: Associate Degree in Early Childhood or Permission of instructor. (F)

TED 389 Special Topics in Educ Mim Cr. 1-Max Cr. 3
Selected topics of current interest. Credits may be earned in this course each time the topic changes. No more than three credits may be applied to a degree program. Prerequisite: TED 211 or 212 (F, Sp)

TED 400 Supervision & Mgt of EC Mim Cr. 2-Max Cr. 2
This course provides experiences in assessing needs and requirements of varied childcare facilities and preschools for young children and the communities they serve, issues explored will include the role of director, staffing and training guidelines, personnel supervision, budget development and funding, resource planning and acquisition, guidance and classroom management, curriculum design, plant and equipment maintenance enrollment and public relations, community events and licensing requirements. Prerequisite: TED 225. Taken concurrently with or following TED 471 for Elementary Education majors. (F, Sp)
TED 405 Early Childhood Special Needs Mim Cr. 3-Max Cr. 3
Designed for those who will teach children ages 3-6 at the nursery or kindergarten level, this course builds classroom teachers’ awareness of the roles and procedures in initial identification of student needs. Course emphasis is on modification of the classroom environment, materials and instruction to meet children’s individual needs. Students gain from writings and observations of professionals in the field and are given the opportunity to volunteer assistance in assessment and instructional activities of early childhood programs. Prerequisites: SPED 330, pre or corequisite TED 335. Materials fee required. (F, Sp)

TED 410 Early Childhood Lang Arts Mim Cr. 3-Max Cr. 3
The purpose of this course is to provide an opportunity to concentrate on language arts in the early childhood curriculum as a means of supporting language development. The developmental continuum of literacy, the components of literacy, planning literacy lessons and teaching strategies will be explored. The integration of language arts in all of the curriculum areas of the early childhood program will be emphasized. Prerequisite: TED 155, 332 or Junior standing. (F, TED)

TED 414 Developmnt of the Transescent Mim Cr. 4-Max Cr. 4
Students will study the developmental characteristics of the transescent (aged 10-14 year olds) in relation to current theory and research. Emphasis is placed on the development of curriculum and pedagogy in middle level schools to accommodate to the transitional nature of this age range in all categories of development. Practical strategies in peer mediation, conflict resolution, problem-solving, and effective communication will be integrated into curriculum structures to help prospective teachers develop skills for resolving interpersonal and intrapersonal conflicts and to create a positive learning environment for transcents. Prerequisite: TED 211 or TED 212 (undergraduate only). (F, Sp, SS)

TED 420 School & Society Mim Cr. 3-Max Cr. 3
This is a writing intensive senior capstone course that provides the historical, legal, philosophical and ethical framework for teacher decision-making. Students explore the impact of social, financial, political and technological issues which impact K-12 education. Prerequisites: Admission to Teacher Education and completion of Block I for Elementary Education majors. (F, Sp)

TED 422 Sec School&Content Area Read Mim Cr. 3-Max Cr. 3
This course provides thorough analysis of the knowledge base and current practice in middle/secondary school literacy in the content areas. Emphasis is on curriculum integration, current technology and strategies that enable students to become independent learners. Special emphasis is on individual differences among readers as well as the social and political implications of global literacy perspectives. Prerequisite: Admission to Teacher Education. (F, Sp)

TED 425 Tech of Elem Ed: Phy Ed Mim Cr. 3-Max Cr. 3
Students develop their competency in designing, implementing, and evaluating lessons in a variety of instructional units in elementary physical education. Emphasis is placed on developing ability to utilize a variety of teaching methods and strategies, and reflective analysis of data collection techniques designed to evaluate student and teacher behaviors, student learning, and student-teacher interactions. Field experience required (25 hours). Prerequisite: P ED 241 and 245, admission to teacher education. (F)

TED 428 Techniques in TESOL Mim Cr. 3-Max Cr. 3
Students will gain an understanding of the role and function of teachers of English to speakers of other languages through the study of approaches, techniques, and curriculum for ESL students. Topics will include current ESL teaching methods: the communicative approach, collaborative learning and CALLA (cognitive academic language learning approach); curriculum design and implementation; and assessment and performance standards. Emphasis will be placed on the teaching of reading, writing, speaking and listening as integrated skills, with an understanding of
the influence of such factors as age, learning styles, and educational background on second language acquisition. Field experience required (25 hours). Prerequisite: admission to teacher education.(Sp)

TED 429 Tech EC-A: Health Educ Mim Cr. 3-Max Cr. 3
This course is designed to prepare students to teach health education as a part of a Comprehensive School Health Education program. Students will design lessons as well as practice and reflect on strategies and methods for teaching health education. Although instructional techniques are emphasized, other professional considerations (e.g., professional growth, professional organization and publications, resources, use of technology) are incorporated in the course structure. Field experience required (25 hours). Prerequisite: Admission to Teacher Education.(Sp)

TED 430 Techniques in Art Mim Cr. 3-Max Cr. 3
This course is designed to prepare students to teach middle/secondary school art and covers writing curriculum, instructional techniques, management, evaluation and professional behavior. Field experience required (25 hours). Prerequisites: Admission to Teacher Education and ART 253.(Sp)

TED 432 Techniques in English Mim Cr. 3-Max Cr. 3
Overall, students will develop understandings of the role and functions of teachers of English through consideration of goals, curriculum, and content (composition, literature, language and media) and skills; key principles and processes; and classroom strategies for teaching content and skills. In a workshop setting, lesson and unit planning are practiced, strategies are experienced, and issues and problem solving are considered. Field experience required (25 hours). Prerequisite: Admission to Teacher Education.(F)

TED 433 Techniques in Social Studies Mim Cr. 3-Max Cr. 3
This is primarily an experiential course where students design lessons as well as practice and reflect on strategies and methods for teaching social studies curricula at the middle and secondary levels. Students will also examine issues of interdisciplinary curriculum design and the philosophical/historical basis of social studies as a discipline. Finally, they will have an opportunity to experiment with materials and resources including the use of technology used in teaching social studies. Field experience required (25 hours). Prerequisite: Admission to Teacher Education. Materials fee required.(Sp)

TED 434 Techniques in Science Mim Cr. 3-Max Cr. 3
This course is designed to prepare the prospective middle/secondary science teacher to direct and evaluate the learning of middle/secondary science students. Although instruction and evaluative techniques are emphasized, other professional considerations (planning, professional growth, teacher-administrator-community relations, etc.) are incorporated in the course structure. Field experience required (25 hours). Prerequisite: Admission to Teacher Education.(F)

TED 439 Tech in Comm Disorders Mim Cr. 3-Max Cr. 3
This course is a certification requirement of the Wisconsin Department of Public Instruction. It is designed to prepare prospective speech-language pathologists for work in the public schools. Attention will be directed toward organization of speech-language programs in the schools and federal/state legislation relating to such programs. Program planning, development, implementation and evaluation will also be discussed. Emphasis is placed on (1) identification of pupils with exceptional educational needs in speech-language; (2) multi-disciplinary team evaluations; (3) individual education plan development; (4) service delivery models, (5) due process. Field experience required (25 hours). Prerequisite: Admission to Teacher Education.(F)

TED 440 Techniques in Agriculture Mim Cr. 3-Max Cr. 3
Specific methods of creating a positive physical, psychological and social teaching and learning environment in agricultural education are taught. Attention is directed toward appropriate
applications of instructional technology materials and equipment, lesson plan development, student evaluation and instructional techniques typical of agricultural education programs in grades 6-12. Field experience required (25 hours). Prerequisites: Admission to Teacher Education and AGED 201.(SP)

TED 461      Psyc & Pedagogy of Literacy    Mim Cr. 3-Max Cr. 3
This course explores theoretical, historical and sociological perspectives on the foundations of functional literacy, literacy disorders, holistic assessment and intervention. Emphasis is on the importance of individual differences in reading proficiency, the causes of literacy disorders, and methods for the improvement of general and specific reading difficulties. This course will examine the changing roles of family, community, and institutions in literacy acquisition as a process. Prerequisite: TED 316 or equivalent.(F, Sp, SS)

TED 462      Cont Area Literacy Sci    Mim Cr. 3-Max Cr. 3
This course provides thorough analysis of the knowledge base, and current practice in middle/secondary school literacy in the content areas. Emphasis is on curriculum integration, current technology and strategies that enable students to become independent learners. Special emphasis is on individual differences among readers, as well as the social and political implications of global literacy perspectives. Science majors will be required to take this course as a portion of their methods block. Prerequisite: Admission to Teacher Education, 90 credits. (F)

TED 463      Cont Area Literacy SocSci    Mim Cr. 3-Max Cr. 3
This course provides thorough analysis of the knowledge base, and current practice in middle/secondary school literacy in the content areas. Emphasis is on curriculum integration, current technology and strategies that enable students to become independent learners. Special emphasis is on individual differences among readers, as well as the social and political implications of global literacy perspectives. Social Science majors will be required to take this course as a portion of their methods block. Prerequisite: Admission to Teacher Education, 90 credits. (F)

TED 465      Mgmt. Strat. - Science    Mim Cr. 3-Max Cr. 3
Students will study and practice strategies for managing and assessing social and academic behaviour in the middle/secondary science classroom. The course includes specific strategies for oral presentation, questioning, and discussion of science content for maximizing student engagement and learning. Must be taken with TED 434 & TED 462. Prerequisite: Admission to Teacher Education and TED 414. (F).

TED 466      Mgmt. Strat. - Soc. Sci    Mim Cr. 3-Max Cr. 3
Students will study and practice strategies for managing and assessing social and academic behavior in the middle/secondary Social Science classroom. The course includes specific strategies for oral presentation, questioning, and discussion of Social Science content for maximizing student engagement and learning. Must be taken with TED 433 & TED 463. Prerequisite: Admission to Teacher Education and TED 414. (F)

TED 471      Student Teaching: Pre K-K    Mim Cr. 1-Max Cr. 12
This course provides classroom practice through observation, participation, and teaching under the direction of a university supervisor and a PreK-K level cooperating teacher in a university affiliated school setting for a full day, full semester experience following the daily schedule and semester calendar of the cooperating school. Students are expected to relate principles and theories from their professional education and pedagogical knowledge base to classroom practice. Prerequisites: Admission to Teacher Education, designated coursework, and satisfactory completion and approval of 50 hours of human relations field experiences.(F, Sp)

TED 472      Student Teaching: Elem Educ    Mim Cr. 1-Max Cr. 12
This course provides classroom practice through observation, participation, and teaching under the direction of a university supervisor and an elementary level cooperating teacher in a university
affiliated school setting for a full day, full semester experience following the daily schedule and semester calendar of the cooperating school. Students are expected to relate principles and theories from their professional education and pedagogical knowledge base to classroom practice. Prerequisites: Admission to Teacher Education, designated coursework, and satisfactory completion and approval of 50 hours of human relations field experiences. (F, Sp)

TED 473  Student Teaching: Middle Sch  Mim Cr. 1-Max Cr. 6
This course provides classroom practice through observation, participation, and teaching under the direction of a university supervisor and a middle level cooperating teacher in a university affiliated school setting for a full day, full semester experience following the daily schedule and semester calendar of the cooperating school. Students are expected to relate principles and theories from their professional education and pedagogical knowledge base to classroom practice. Prerequisites: Admission to Teacher Education, designated coursework, and satisfactory completion and approval of 50 hours of human relations field experiences. (F, Sp)

TED 474  Student Teaching: Sec Educ  Mim Cr. 1-Max Cr. 12
This course provides classroom practice through observation, participation, and teaching under the direction of a university supervisor and a secondary level cooperating teacher in a university affiliated school setting for a full day, full semester experience following the daily schedule and semester calendar of the cooperating school. Students are expected to relate principles and theories from their professional education and pedagogical knowledge base to classroom practice. Prerequisites: Admission to Teacher Education, designated coursework, and satisfactory completion and approval of 50 hours of human relations field experiences. (F, Sp)

TED 475  Student Teaching: K-12  Mim Cr. 1-Max Cr. 12
This course provides classroom practice through observation, participation, and teaching under the direction of a university supervisor and a cooperating teacher in a university affiliated school setting for a full day, full semester experience following the daily schedule and semester calendar of the cooperating school. Students are expected to relate principles and theories from their professional education and pedagogical knowledge base to classroom practice. Prerequisites: Admission to Teacher Education, designated coursework, and satisfactory completion and approval of 50 hours of human relations field experiences. (F, Sp)

TED 476  Elementary Internship  Mim Cr. 1-Max Cr. 12
This course provides salaried teaching experience under the direction of a university supervisor and one or more elementary level teachers as part of an instructional team arrangement in a university affiliated school setting for a full day, full semester experience following the daily schedule and semester calendar of the cooperating school. Students are expected to relate principles and theories from their professional education and pedagogical knowledge base to classroom practice. Prerequisites: Admission to Teacher Education, designated coursework, and satisfactory completion and approval of 50 hours of human relations field experiences. (F, Sp)

TED 477  Middle School Internship  Mim Cr. 1-Max Cr. 6
This course provides salaried teaching experience under the direction of a university supervisor and one or more middle level teachers as part of an instructional team arrangement in a university affiliated school setting for a full day, full semester experience following the daily schedule and semester calendar of the cooperating school. Students are expected to relate principles and theories from their professional education and pedagogical knowledge base to classroom practice. Prerequisites: Admission to Teacher Education, designated coursework, and satisfactory completion and approval of 50 hours of human relations field experiences. (F, Sp)

TED 478  Secondary Internship  Mim Cr. 1-Max Cr. 12
This course provides salaried teaching experience under the direction of a university supervisor and one or more secondary level teachers as part of an instructional team arrangement in a university affiliated school setting for a full day, full semester experience following the daily schedule and semester calendar of the cooperating school. Students are expected to relate
principles and theories from their professional education and pedagogical knowledge base to classroom practice. Prerequisites: Admission to Teacher Education, designated coursework, and satisfactory completion and approval of 50 hours of human relations field experiences. (F, Sp)

TED 479  K-12 Internship Teaching  Mim Cr. 1-Max Cr. 12

TED 480  PreK-Early Elem Stud Teach  Mim Cr. 12-Max Cr. 12

TED 490  Readings  Mim Cr. 1-Max Cr. 3

TED 551  Nat Am Wisc  Mim Cr. 1-Max Cr. 1

TED 552  Int Conf Res  Mim Cr. 1-Max Cr. 1

TED 553  Environmental Education  Mim Cr. 1-Max Cr. 1

TED 695  Contemporary Issues in Educ  Mim Cr. 1-Max Cr. 1

TED 715  Science in Elem School Mim Cr. 3-Max Cr. 3

TED 720  Math Methods  Mim Cr. 3-Max Cr. 3
TED 745   Educational Psychology Mim Cr. 6-Max Cr. 6
This course is designed to familiarize students preparing for a profession in teaching with theories of human development, instructional psychology and evaluation methods of student performance. An intensive field experience in schools is required.

TED 747   Curriculum K-12   Mim Cr. 3-Max Cr. 3
This course is designed to provide a general survey and overview of the curriculum planning process K-12. The course will provide design, development and implementation strategies for effective curriculum planning K-12.

TED 760   Methods of Research   Mim Cr. 3-Max Cr. 3
This course is designed to study the role and logic of research methods; action research; a consumer’s and basic practitioner’s introduction to the computation, interpretation, and application of commonly used statistics. The course also requires definition of problems and issues, critical examination and synthesis of research, conceptualization of a research question, succinct review of the literature planning of an investigation, and collection of data; review of gender and racial bias in educational research.

TED 789   Special Topics in Educ   Mim Cr. 1-Max Cr. 3

TED 798   Independent Research   Mim Cr. 1-Max Cr. 3

TED 799   Thesis   Mim Cr. 1-Max Cr. 4

TESL 763   Vocabulary Teaching   Mim Cr. 3-Max Cr. 3
The course introduces graduate students and practicing teachers to the key concepts regarding vocabulary, such as the notion of the word, meaning, semantic relationships, lexical classes, and lexical variation. It familiarizes students with the vocabulary teaching pedagogy including vocabulary learner strategies and vocabulary teaching techniques. (Sp)

TESL 765   Language and Culture   Mim Cr. 3-Max Cr. 3
English 765 focuses upon the relationship between language and culture. Students will learn about the influence of culture upon language and upon the conventions of spoken and written discourse. Topics covered will include body language, management of space, and cultural views on education, age, and gender. Prerequisite: Admission to TESOL Graduate Program. (F or S)

TESL 789   Special Topics in TESOL   Mim Cr. 3-Max Cr. 3
The Special Topics course provides graduate students the opportunity for advanced study in the skill areas /n of TESOL--linguistics, reading, writing, speaking, or listening--as well as advanced study of a particular /n cultural or language group. (F or S)

TESL 793   Plan B Paper   Mim Cr. 1-Max Cr. 3
This course provides faculty guidance in Plan B paper/project development. (F, Sp, SS)

Theatre 105   Intro to Theatre & Drama   Mim Cr. 3-Max Cr. 3
Students will study the values of theatre art in general culture, with an analytical consideration of the various elements of drama, the elements of physical contemporary theatre, and a brief historical survey to give perspective and understanding to today’s theatre-goer. An optional practical component offers students the opportunity to work on a university theatre production. (F, Sp)
THEA 110  Sustainability and the Arts  Mim Cr. 3-Max Cr. 3
THEA 110 is an introduction to understanding the ethics of Sustainability. Using the Arts as our lens we will explore, examine and analyze our responsibilities to a sustainable future world. (F, SS)

THEA 121  Acting I: Basic Techniques  Mim Cr. 3-Max Cr. 3
Students will learn the fundamentals of acting through exercises, improvisation, and scene study. Topics such as basic stage movement, voice techniques, integration of body and voice, and other fundamentals of the acting process will be covered. The course includes both theory and practice. (F, Sp)

THEA 131  Design for Theatre  Mim Cr. 3-Max Cr. 3
Students will study the theory and practice of the basic elements and techniques used in theatrical design. These elements include script analysis, research, and conceptual development and then application of the techniques of drawing, figure drawing, drafting, and color theory. Art and makeup materials are required. (Sp)

THEA 221  Acting II: Characterization  Mim Cr. 3-Max Cr. 3
This is the second in a series of acting courses. Participants will pursue work in intermediate to advanced acting techniques, applying them to characterization and scene study. Principles related to the auditioning process will also be studied. The course includes both theory and practice. Prerequisites: THEA 121. (Sp)

THEA 227  World Puppetry (g)  Mim Cr. 3-Max Cr. 3
This course will expose students to the immense canon of puppetry plays, characters and forms across the globe, asking them to examine the ways that puppetry is a reflection of global cultures. The course will alternate in scheduling with Creative Dramatics and Theatre for Youth course. (Sp, alternate years)

THEA 230  Playwrights of Color (d)  Mim Cr. 3-Max Cr. 3
The course will examine the theatrical works of playwrights of color; consider the aesthetic traditions that produce them, explore social factors reflected in these plays, and examine the individuals and institutions that produce such work. (Sp, Annually).

THEA 232  Makeup Theatre, Film & Video  Mim Cr. 3-Max Cr. 3
This course includes theory and extensive practice in the skill of makeup application for roles in all media. Makeup kit is required. Prerequisite: THEA 131, Design for the Theatre or consent of instructor. Co-listed as FILM 232. (Sp, alternate years)

THEA 234  Stage Management  Mim Cr. 3-Max Cr. 3
This course is designed to introduce students to the processes and skills necessary to become an effective stage manager for a theatre production. The students will investigate the various tasks assigned to a stage manager. In a classroom situation the students will be assigned to demonstrate proficiency with assigned stage management activities.

THEA 339  American Theatre  Mim Cr. 3-Max Cr. 3
The course is an exploration of theatre literature and practice in America from the 17th century to the present. Participants will examine popular culture and literary works by major American playwrights and learn about the culture reflected on the stage. (F, every third year)

THEA 375  Theatre Practicum: Production  Mim Cr. 1-Max Cr. 1
Students will acquire directed, supervised experience in theatre arts emphasizing the creative or research aspects of theatre performance or stage directing. May be retaken once. (F, Sp)
THEA 376  Theatre Pract: Design & Tech  Mim Cr. 1-Max Cr. 1
Directed laboratory/production experience in theatre design and technology is the goal of the course. It usually involves participation in a theatrical production. Prerequisite: consent of instructor. May be retaken once. (F, Sp)

THEA 379  Internship in SCTA  Mim Cr. 3-Max Cr. 12
The Communication Studies and Theatre Arts internship is a program which places selected students in businesses, industries, or organizations to provide opportunities to practically apply their knowledge of and skill in speech, mass media, or theatre arts. Students may elect a 3-12 credit internship. This experience will be evaluated on a PASS/FAIL basis. Prerequisite: Junior or higher standing and permission of DFT internship supervisor. Students may count a total of 12 internship credits toward their degrees. (F, Sp, SS)

THEA 490  Ind Study: Senior Project  Mim Cr. 1-Max Cr. 1
Senior theatre majors will work with a faculty mentor in the development of an independent project in some aspect of theatre arts (design, performance, directing, dramaturgy, management, or some combination). Prerequisite: Theatre major with senior status.  (F)

THEA 499  Independent Study/Research  Mim Cr. 1-Max Cr. 3
A given subject in communication studies, mass communication, and/or theatre arts will be pursued in-depth. Prerequisite: consent of instructor and department chair.  (F, Sp)

UNIV 379  International Internship  Mim Cr. 3-Max Cr. 3
Credits will be earned by students involved in an international internship. The internships will be supervised by departmental/faculty coordinators in each of the four Colleges: Arts and Sciences; Agriculture, Food and Environmental Sciences; Business and Economics; Education.

UNIV 379  International Internship  Mim Cr. 2-Max Cr. 6
Credits will be earned by students involved in an international internship. The internships will be supervised by departmental/faculty coordinators in each of the four Colleges: Arts and Sciences; Agriculture, Food and Environmental Sciences; Business and Economics; Education.

UNIV 700  LibRsrchAcc  Mim Cr. 0-Max Cr. 0
Course allows degree-seeking graduate students not currently enrolled for courses to access licensed electronic library resources.  (F, Sp, SS)

WGST 200  Intro Women&Gender Studies (d)  Mim Cr. 3-Max Cr. 3
This course studies historical and contemporary texts, theories, and data regarding gender in diverse cultures and societies; the experiences, challenges, and accomplishments of women will form a major focus of the course. We will also study genders intersections with race, class, ethnicity, and sexuality in shaping identity, behavior, and perception.  (F, Sp)

WGST 205  Women's History: US  Mim Cr. 3-Max Cr. 3
This course will offer a multicultural approach to the history of women in the United States. Beginning with the period of contact between Native Americans and Europeans, the course emphasizes the ways that historical developments and social institutions have affected women differently depending on race, class, and ethnicity. Co-listed as WMST 205. (F, alternate years)

WGST 314  Women & Politics  Mim Cr. 3-Max Cr. 3
In this course students will examine women's political movements, public policies which affect the relative status of women and men, the role of women in electoral politics and how ideas about gender have shaped political life. Our analysis will include examples from politics in the United State and also from other nations. Co-listed as Women's Studies 314. (alternate years)
WGST 342  Sociology of Family  Mim Cr. 3-Max Cr. 3
An examination of the social structure and social interactions in families. Cross-cultural comparisons are examined as well as issues pertinent to western family life: mate selection, family life cycle, gender roles, parenting, abuse, and death. SOCI 100 or consent of instructor. Co-listed as WMST 342. (Yearly)

WGST 379  Internship Women & Gender Studies  Mim Cr. 2-Max Cr. 3
Students apply theory, concepts and skills developed in the Women's Studies minor to work projects in profit and non-profit organizations. Prerequisites: Completion of 9 credits in the Women's Studies minor, including WMST 200 and approval of the Women's Studies Coordinator. (F, Sp)

WGST 499  Women's & Gender Studies: Dir Study  Mim Cr. 1-Max Cr. 3
This course includes directed studies on a women's issue, probably in the student's major field, to be approved by the Women's Studies Committee as a whole and to be supervised by a designated faculty member of the committee in conjunction (if necessary) with a selected faculty member in the field of the study. A final research paper in the range of 15-20 pages will result from the student's directed study. Prerequisites: WMST 200 and senior status. (F, Sp)

WIS 200  British History  Mim Cr. 3-Max Cr. 3
This is a core course that is taught as part of the Wisconsin in Scotland Program.

WIS 289  Sp Top: Mim Cr. 1-Max Cr. 3

WIS 305  Scotland: Soc & Global  Mim Cr. 3-Max Cr. 3
This course explores different aspects of contemporary Scottish society and focuses on many of the key social, economic, cultural and political issues that face Scotland and how globalization is impacting Scottish economy and society. The course takes an interdisciplinary approach and emphasizes comparisons between Scotland and the US. (Provided F/Sp only through the Wisconsin in Scotland program)

WIS 310  Scotland: Heritage & Culture  Mim Cr. 3-Max Cr. 3
The course looks at how issues of culture, heritage, and sport have come to shape contemporary Scotland. The course takes a multidisciplinary approach, focusing on how Scotland is, and will be, seen by other countries as well as by its own residents. Provided only through the Wisconsin in Scotland program.

X-Consort 900  Consortium  Mim Cr. 1-Max Cr. 12
This is a non NSE course placeholder. Students do not register for this course.