

**340 Methods of Teaching Family & Consumer Sciences** (3) Learning and teaching styles. Examination of various instructional strategies, equipment and resources. Computer aided instruction. Student, parent and teacher relationship and counseling. *Prereq: Admission to Teacher Education.*

**404 Student Teaching in Family & Consumer Sciences** (6) Supervised teaching experience in off-campus centers for the entire semester. *Coreq: TCED 401, FCSE 405. Prereq: Admission to Teacher Education.*

**405 Student Teaching in Family & Consumer Sciences** (6) Supervised teaching experience in off-campus centers for the entire semester. *Coreq: TCED 401, FCSE 404. Prereq: Admission to Teacher Education.*

**713 Human Relationships in the Classroom** (3) Basic needs of individuals, social values and techniques of interpersonal relations in developing effective secondary home economics programs.

**722 Evaluation in Family & Consumer Sciences Education** (3) Purposes, fundamental principles and techniques.

## Finance (FIN)

**160 Personal Financial Management** (3) An introductory course designed to teach students how to manage their personal finances enabling them to function responsibly in today's society. Topics include the responsible use of credit (including credit cards), savings and investments, taxes, real estate, employee benefits and retirement planning. The societal effects of money management decisions including bankruptcy, divorce, predatory lending and national savings rates are addressed.

**301 Managerial Finance** (3) The domestic and multinational corporation, its operating, legal and tax environment. Financial analysis, long-term investment decisions, capital structure, management of working capital, sources of long-term financing and failure. *Prereq: ACCT 201 or ACCT 300; and ECON 201 or 202.*

**302 Intermediate Managerial Finance** (3) An advanced course in financial management designed to cover theory and practice of the management of

the finance function in corporations. Topics covered include capital budgeting, the theory and practice of capital structure, leasing, capital asset pricing model, long-term financing, expansion and synthetic securities. *Prereq: FIN 301.*

**311 Investment Analysis** (3) An introductory course on the basics of investing in bonds and common stocks. Topics covered include the operations of stock and bond markets, fundamental and technical analysis of stocks, bond portfolio management, options and futures. *Prereq: FIN 301.*

**313 Analysis of Financial Statements** (3) An in-depth study of current financial reporting practices; analysis and interpretation of corporate financial statements. The course includes an extensive review of financial accounting concepts. *Prereq: FIN 301.*

**332 International Finance** (3) Financing the multinational corporation, hedging arbitrage, foreign exchange, Eurodollar and Euro-bond markets and banker's acceptances. Short-term money flows and their impact upon interest rates. Devaluation and its impact upon the balance sheet and other topics. *Prereq: FIN 301.*

**341 Financial Markets and Institutions** (3) A study of the wide range of markets and instruments used to finance projects and control risk in today's global economy. Students are introduced to the operational, regulatory and transitory characteristics of capital markets and financial institutions. Topics in this application-oriented course include the monetary system, stock, bond, mortgage, futures and options markets, pension funds, investment firms, commercial banks, credit unions, mutual funds and insurance companies. *Prereq: ACCT 201 or 300, and ECON 201 or 202.*

**351 Commercial Banking** (3) A comprehensive study of commercial banks and their role in the economy. The course emphasizes the practical application of business and economic principles as they relate to bank management and regulatory policy. Topics covered include banking history and regulation, consumer and commercial credit analysis, asset and liability management, risk management, loan policy and money management services. Trends such as consolidation, on-line banking, internationaliza-

tion and project-line expansion are also addressed.  
*Prereq: FIN 301.*

**370 Principles of Real Estate (3)** A survey course in the economic and financial aspects of investing in real estate. Urban economic growth and development, property valuation, mortgage and equity financing, mortgage market operations, portfolio analysis, taxation and investment analysis will be covered. Emphasis of the course is on home ownership and investing in small income-producing properties. *Prereq: ECON 202.*

**411 Portfolio Management (3)** A course applying security analysis concepts to the management of the TVA Investment Challenge portfolio. Students will be responsible for portfolio management decisions and security selection in managing the TVA portfolio. This course is designed to permit students to apply their knowledge of investment analysis to the management of an equity portfolio that is part of the competitive program sponsored by the Tennessee Valley Authority. *Prereq: FIN 311.*

**471-479 Topics in Finance (3)** Selected topics in finance offered on an occasional basis for qualified students. Admission by permission of instructor only.

**480 Internships in Finance (1-9)** Supervised work experience in business establishments, institutions, or other organizations matched to the student's curriculum. May be repeated for up to a total of nine hours internship credit. A maximum of six hours may be used to fulfill degree requirements. Pass/Fail. *Prereq: Departmental approval required; at least Junior standing.*

**491-492 Independent Study in Finance (3, 3)** Special research projects undertaken individually under the supervision of the faculty. Maximum credit available for independent study courses is six hours. *Prereq: Senior standing.*

**493 Financial Policy Analysis (3)** A capstone case course in corporate finance which integrates financial management in the decision-making process of the firm. Special topics include working capital, financial structure of the firm, dividend policy, mergers and acquisitions, bankruptcy and reorganization. *Prereq: FIN 301, 302.*

**710 Corporate Financial Management (3-4)** An analysis of the problems associated with the internal financial management of business enterprises through the application of decision-making methods. *Prereq: ACCT 711 or 201 or 300.*

**711 Investment and Portfolio Management (3)** An introduction to the theory and practice of security analysis and the management of investment portfolios, with emphasis on investment management by institutional investors. Topics covered include fundamental and technical analysis of common stocks, asset allocation strategies, management of equity and debt portfolios, options, futures, hedging and derivative securities. Students will be involved in the management of a stock portfolio. *Prereq: FIN 710 or both ACCT 711 and FIN 301.*

**721 Banking and Financial Services (3)** An interactive seminar that brings students, faculty and industry leaders together to study and discuss critical issues facing today's financial services industry. The course will address the full range of financial services including investment and commercial banking, insurance, pension plans, risk management, mutual funds, e-commerce and personal and business planning. Leadership, customer service and marketing issues will be discussed. Finally, the course will provide a comprehensive overview of the structure of the financial system, interest rate and business cycle determinants and international financial markets. *Prereq: FIN 710 or both ACCT 711 and FIN 301.*

**732 International Corporate Finance (3)** The study of financial management of the international operations of corporations including exchange risk, capital budgeting, political risk and the management of working capital. Current topics in international finance will also be covered in areas such as hedging, risk management, futures and options. *Prereq: FIN 710 or both ACCT 711 and FIN 301.*

## Fine Arts (FA)

### 300 Computers and Media for the Arts (3)

Exploration of relevant computer software programs, various media platforms and digital technology applications for use in the pedagogy and studio instruction methods for the visual and performing arts. Projects will utilize the computer and digital media technology in the design and distribution of projects and curricular materials as well as for research and class presentations. Graphic Design emphasis students may not use this course as a supporting course in the Arts elective. *Prereq: B.F.A. majors only, ART 221-222, and ART 241-242 or permission of the instructor.*

**310 Aesthetics (3)** A basic course in aesthetics, dealing with such conceptual issues as the criteria of identity for works of art, the idea of style, of expression, the notion of aesthetic attitude, the relevance of artists' intentions to interpretation and truth in literature and the arts. Analysis of these and similar notions with reference to examples from various art forms (painting, music, literature, etc.). Written reports and oral presentations are required. (Same as PHIL 310)

**350 Fine Arts in Early Childhood (3)** Methods and activities in music, art, drama and movement (dance) for children from birth to eight years.

**410 Art Theory and Criticism (3)** A study of historical and contemporary thought and process of art theory and criticism. The student will gain an appreciation of how their work will be understood or interpreted in a critical, professional setting.

**467 Travel Study (Selected Topics) (3)** A course designed as an educational travel experience in the fine arts, including one or more of the following: art history, dance, graphic design, theatre, studio art. Student may repeat course for credit. Requires instructor's approval.

## Food Science (FSCI)

**200 Food Principles (3)** Basic principles of food science in developing products of standard quality. Influence of composition and treatments on properties of food. Standard methods of food preparation

with emphasis on quality and safety. Two one-hour lectures and one two-hour lab.

**313 Food Management (3)** Food for families and individual consumers. Bases for selection, costs, food values, safety, legislation. Etiquette and aesthetics associated with planning and serving food. Two one-hour lectures and one two-hour lab.

**332 Nature of Food (3)** Composition of food. Chemical, physical and microbiological factors related to characteristics and response to treatments. Two one-hour Lectures and one two-hour lab. *Prereq: CHEM 310, CHEM 319L, and MBIO 251, or equivalent.*

**403 (603) Experimental Study of Food (3)** Applications of experimental method to food materials. Evaluation of food products by objective measurements and sensory assessments. One one-hour lecture and two two-hour labs. *Prereq: FSCI 332, CHEM 310, CHEM 319L, or equivalent.*

**701 Advanced Food Science (3)** Applications of research methods to individual problems. *Prereq: FSCI 403 or equivalent.*

**704 Developments in Food Science (3)** Emphasis on function of food components, safety and utility in food product development.

## Food Systems Management (FSMG)

**203 Orientation to Food Service Systems (3)** Identifying types of establishments, service and career opportunities. Field trips and lab experience. Two one-hour lectures and one three-hour lab.

**312 Quantity Food Management (3)** Principles of food materials handling and menu planning for volume feeding. Lab experience in quantity food procurement, preparation, service, personnel management and sanitation. One one-hour lecture and two two-hour labs. *Prereq: FSMG 203 or instructor's approval.*

**410 Food Service Systems (3)** Synthesis of administrative functions in organizing and managing food service systems; emphasis on identifying resources to meet the needs of the system and on

means for providing quality assurance in food and nutrition services. *Prereq/Coreq: FSMG 312 or instructor's approval.*

**413 (613) Food Systems Design (3)** Principles of design for physical facilities of food service systems based on needs of the systems. Layout and equipment specifications according to economic and technical requirements. *Prereq: FSMG 312 or instructor's approval.*

**415 Standards of Professional Practice (2)** The dietetics profession and the development of practitioners. Laws, regulations and other factors affecting dietetics practice. Taken during semester when FCS 487 and 497 Supervised Field Experience in Dietetics are scheduled. *Prereq: Senior Standing and 2.50 GPA.*

**711 Administration of Food and Nutrition Services (3)** Organization and direction of systems which provide food and nutrition services to consumers as individuals and groups.

**713 Financial Management of Food Systems (3)** Collection and analysis of data for maintaining control of assets in various food systems.

**714 Preprofessional Practice I (3)** Two-hundred-eighty hours of supervised practice plus 40 hours of lecture-discussion/independent study addressing the didactic aspects of dietetic practice in food systems management. This course consists of rotations in menu management, procurement, quantity food production, patient and non-patient food delivery and services, sanitation and safety (HACCP), cost/quality control, financial operational reporting and staff relief. *Prereq: Admission to Dietetic Internship.*

**716 Experimental Quantity Food Study (3)** Analysis of problems in production, holding and service of food produced in quantity. Use of management resources in lab settings. *Prereq: FSMG 312 or consent of instructor.*

## French (FREN)

**111 Elementary French (4)** (TBR: FREN 1010) An introductory course emphasizing listening, speaking, reading and writing. May be used to remove a language deficiency or for students with no prior

experience in this language. After passing 111, students will take the second semester of the elementary sequence, 122. Three one-hour lectures and two one-hour labs.

**115 Transitional French (4)** A review of listening, speaking, reading and writing for students who have had two years of French at the high school level or equivalent as determined by the department. After passing FREN 115, students will take the second semester of the elementary sequence, FREN 122. Three one-hour lectures and two one-hour labs.

**122 Elementary French (4)** (TBR: FREN 1020) An introductory course emphasizing listening, speaking, reading and writing. Three one-hour lectures and two one-hour labs. *Prereq: FREN 111 or 115 or the equivalent as determined by the department.*

**222 Intermediate French (4)** Grammar review, reading, writing and conversation. Three one-hour lectures and two one-hour labs. *Prereq: FREN 122 or equivalent as determined by the department.*

**250 France Today: The French People and Their Culture (3)** An interdisciplinary study of the French people today, with emphasis on their life-styles, customs, mentality and overall culture. Discussion of current trends in French politics, education, media, religion and literature and the arts (including popular culture) especially as they illustrate important cultural values and attitudes. Consideration of France's cultural influence on selected areas of the francophone world (e.g., sub-Saharan Africa and Quebec). Taught in English.

**300 (500) Intensive Conversation in a Foreign Country (3)** In-residence training in the foreign language of the area visited. The course elected must be approved in advance by the Chair of the Department of Modern Foreign Languages. Research project required for graduate credit. *Prereq: FREN 222 or equivalent.*

**311 (511) Introduction to French Literature and the Arts (3)** Analysis of literary and critical texts as well as art to illustrate the most commonly identified characteristics of major schools of thought and major periods from the Middle Ages to the present. *Prereq: FREN 341 or 342 or instructor's approval.*

**321 (521) Introduction to French Civilization and Material Culture** (3) A descriptive and critical approach to French history, geography, religious, political, social, educational and economic institutions. *Prereq: FREN 341 or 342 or instructor's approval.*

**341 (541) Advanced Conversation** (3) Emphasizes conversational skills. Oral practice to extend range of topics, vocabulary, fluency and conversational strategies. Study of the phonetic system of the French language and exercises to improve pronunciation. Grammar appropriate for oral French. Discussions utilizing readings and electronic media such as videos and the internet. Class presentation of research project required for graduate credit. Heritage speakers and those with near-native abilities in French are not eligible to take this course. If they intend to major in French or earn a Certificate of Proficiency, they should see the department chair for a waiver. *Prereq: FREN 222 or instructor's approval.*

**342 (542) Advanced Composition** (3) Emphasizes composition skills. Written practice to extend range of topics, vocabulary, fluency and compositional strategies. Grammar and stylistics appropriate for written French. Practice writing expository and creative prose, translations as well as use of internet discussion lists. Class presentation of research project required for graduate credit. *Prereq: FREN 222 or instructor's approval.*

**350 Masterpieces of French and Francophone Literature** (in English Translation) (3) In-depth discussion of selected literary masterpieces from France and other francophone countries. Emphasis on characters, themes and social trends which reflect the culture and traditions of the francophone world. No knowledge of French required; taught in English. Does not count towards major, minor or Certificate of Proficiency in French. *Prereq: ENGL 111-112.*

**360 (560) Studies Abroad** (3) In-residence study of the literature, language, or civilization of the area visited. Relevant field trips. Must be approved in advance by the Chair of the Department of Modern Foreign Languages. Research paper required for graduate credit. *Prereq: FREN 341 or 342.*

**370 (570) Travel Study** (1-3) A combination of travel and study experiences in the U.S. or abroad

designed to enrich students' knowledge of the target foreign language and culture. May be taught as an organized study tour under faculty supervision or as an independent travel and study project with prior department approval. Topics, prerequisites and course requirements announced in advance. Research paper required for graduate credit. Students may repeat course with change of topic for maximum of six hours credit. Chair of the Department of Modern Foreign Languages approval must be obtained for travel-study courses to count towards minor, major, or Certificate of Proficiency. Not regularly offered.

**381-382 (581-582) Survey of French Literature** (3, 3) Selected readings to give students an acquaintance with important personalities, movements and ideas in French literature. 381: Beginning to 17th century. 382: 18th century to present. Research paper required for graduate credit. *Prereq: FREN 341 or 342 or departmental approval.*

**401 Foreign Language Internship** (3) Utilization of the target foreign language in a monitored work environment. Appropriate placements may be found locally, nationally, or abroad. Students may or may not be paid. Evaluation by both supervising instructor and on-the-job supervisor. Chair of the Department of Modern Foreign Languages approval must be obtained for internships to count towards minor, major, or Certificate of Proficiency. *Prereq: FREN 341 or 342.*

**451 (651) The Language of Business and the Professions** (3) Study of the basic terminology and documents of business and various professions as practiced within the francophone world. In addition to business, professions such as communications, travel and tourism, agriculture and criminology will be covered. Composition of business letters and résumés, translation and presentation of oral reports. Research paper required for graduate credit. *Prereq: FREN 341 or 342 or instructor's approval.*

**491 (691) French Cinema** (3) A survey of French cinema from the turn of the century to the New Wave of the 1960s and '70s. Discussion of the films of major French directors with emphasis on how each film contributes to the development of a national tra-

dition and reflects important issues in French society. Research paper required for graduate credit. *Prereq: FREN 341 or 342 or instructor's approval.*

**495-496 (695-696) Topics in French Language, Literature, or Civilization** (1-3, 1-3)

Study of selected aspects of French language, literature, or civilization. Taught in French. Topics and prerequisites announced in course schedule. Research paper required for graduate credit. Students may repeat course with change of topic. Only six hours of topics courses may count towards a minor, major, or Certificate of Proficiency. Not regularly offered.

**498-499 (698-699) Independent Study** (1-3, 1-3)

Directed reading or research under supervision of a staff member. Available only to Juniors and Seniors having completed at least six hours of upper-division coursework in French. Project must be approved by faculty in the discipline concerned and the department chair. Research paper required for graduate credit. Students may take no more than six hours of independent study.

## General Studies (GENS)

**101 General Studies, Seminar in Freshman Studies** (2)

Study and small group discussion of problems commonly encountered by students making the transition from high school to college. Assigned reading on current topics, informational programs presented by major academic units, academic and career planning placement and proficiency testing in addition to a general orientation to the university, are the major aspects of the course.

**111-499 General Studies, Minicourses** (1

credit hour for each course with a limit of three courses) Topics of mutual interest to students and faculty designed to provide a quick response to interests and needs of students and faculty. Proposed courses should be submitted to either the Division of Academic Affairs or the Division of Student Affairs for approval and scheduling. The following requirements are suggested for establishment of minicourses.

1. At least one faculty member must endorse each course proposal submitted by students.

Endorsement implies that one will teach the course or arrange for one's colleagues to teach it as visiting professors. Faculty may also propose courses.

2. The grading system would be Pass/Fail or letter grade by departmental request.
3. Students are required to meet the academic standards established by the teacher at the onset of the course. These may include a syllabus of readings, an examination, an essay or term paper, research project, field project, or creative work. Discussion and informality, however, will be stressed and every effort made to avoid the pressures associated with the regular curriculum.
4. Students taking 12 hours or more are eligible to enroll. No more than three such courses may be taken by undergraduates. Courses will count as electives.

**201 Career Exploration** (2) Development of an understanding of the relationships between aptitudes, interest and values and successful career decisions. Includes career testing and counseling current trends in job supply-demand and salaries, relationship of academic major to career fields, use of the university catalog in academic planning and research on specific careers. Designed to create the basis for an informed career decision.

**211 College Study Skills** (2) Assists the student in developing practical techniques to enhance academic success in college. Topics include goal setting, time management, self-esteem, concentrating and remembering, listening, note-taking strategies, study notes, researching and writing papers, preparing for tests. Meets two times per week.

**300 Fundamentals of Career Entry** (1) This course is designed to prepare students for careers after graduation by making students aware of career choices, aiding students in resumé writing, teaching interview techniques and helping students to prepare for entry into the work force. Graded on a Pass/Fail basis.

**301 Portfolio Development (3)** This course requires students to develop a portfolio that they can then use to document prior life/work experience. An expanded version of this document serves as documentation to support an award of credit for college-level learning gained through experience. Students will enhance their research skills by compiling and organizing documents that will constitute proof of their creditable experience; develop their persuasive writing skills by presenting how these documents substantiate their claim that prior work and/or experience should be given course credit; and develop their ability to document resource materials correctly for the field(s) in question. *Prereq: an autobiographical essay to be used as a diagnostic tool for writing skills and creditable learning experience and approval of the instructor.* Graded on a Pass/Fail basis.

**400 Senior Seminar (3)** Assessment of personal and academic potentials for professional careers. This course is designed to prepare students to enter the workplace or change jobs. Students will explore real world work issues and key issues in the students' selected field of study through examination of crucial past, present and future information, concepts, policies and practices. Course will include the development and/or enhancement of skills in resumé writing and interviewing.

## Geography (GEOG)

**151 Introduction to Regional Geography: North America, Europe and Russia (3)** An integrated study of the cultural, economic, political and physical aspects of countries and regions within North America, Europe and Russia.

**152 Introduction to Regional Geography: Asia, Africa and Latin America (3)** An integrated study of the cultural, economic, political and physical aspects of countries and regions within Asia, Africa and Latin America. GEOG 151 and 152 do not have to be taken in sequence.

**180 Topics in Geography (1-4)** Study of special topics or travel-study experiences at an introductory level not requiring extensive prerequisites in the discipline. *Prereq: Instructor's approval.*

**201 Introduction to Physical Geography (3)** An introduction to patterns and processes that shape earth's natural environments.

**202 Introduction to Cultural Geography (3)** An introduction to patterns and processes of the world's cultural systems, landscapes and built environments. GEOG 201 and 202 do not have to be taken in sequence.

**210 Methods in Geoscience (2)** Survey of the field and lab methods and associated technology commonly used by geologists and geographers. Topics include: nature of spatial data, map interpretation, basic GPS and GIS, remote sensing, microscope analyses, research design, field study design and implementation, conducting literature searches, scientific and technical writing, preparation of oral presentations, geostatistics. *Prereq: GEOL 110-120 or GEOG 151-152 or GEOG 201-202.* (Same as GEOL 210)

**305 Principles of Meteorology (3)** An introduction to the elements and processes that shape the weather. Weather observation techniques, weather analysis and forecasting will be emphasized. Atmospheric hazards and air quality issues will also be presented.

**310 Principles of Geographic Information Systems (3)** An introduction to Geographic Information Systems as a tool with which to construct and conduct computer-based spatial analysis and mapping. Topics related to data acquisition, database development, fundamental analytical procedures and cartographic output are emphasized.

**355 (555) Principles of Geomorphology (3)** A study of the process mechanics operating within the earth's surficial systems and the resultant landforms derived from these processes; information obtained is used to analyze how landform history manifests past climatic or tectonic phenomena. Students cannot receive credit for GEOG 355 (555) and GEOL 451 (651). *Prereq: GEOL 110 and either GEOL 120 or instructor's approval.* (Same as GEOL 355/555)

**364 (564) Introduction to Remote Sensing (3)** An introduction to the principles and concepts of remote sensing as a tool for geographic inquiry. Emphasis will include the nature of remote sensing

images (photographs, satellite imagery, radar) and their analysis and interpretation for applications in geographic inquiry and environmental assessment. *Prereq: Junior standing; GEOG 201 or permission of instructor.*

**365 (565) Tennessee's Geologic and Cultural Landscapes** (3) Lectures and field excursions emphasizing the interactions of geology and culture in Tennessee. Geologic topics include: physiographic regions and geologic history, landforms, structural and tectonic history, natural and economic resources and environmental issues across the state. Cultural topics include: settlement history, economic development, political patterns and distribution of populations. Attention is given to current state issues. *Prereq: GEOL 110-120 or GEOG 201-202. (Same as GEOL 365/565)*

**375 (575) Earth Systems Science** (3) Investigations in Earth Systems Science using inquiry-based exploration of Earth's processes and environments including the lithosphere, atmosphere, biosphere, hydrosphere and astrosphere. The course will focus on Problem-Based and Student-Centered learning techniques, so it will be especially applicable to anyone intending to or currently engaged in teaching science courses. The course is taught completely online, with the participant doing a combination of individual and group coursework via an asynchronous discussion board. An optional field trip for hands-on learning will be made available. Prerequisites for graduate credit: Bachelor's degree or Senior standing and permission of the instructor. *Prereq for undergraduate credit: Minimum of eight (8) hours of undergraduate lab-based science and permission of the instructor. (Same as GEOL 375/575)*

**380 (580) Geography of North America** (3) A region-by-region examination of the United States and Canada. The physical features, settlement histories, agricultural production, industrialization, urbanization, political problems and cultural practices of North America's regions will be emphasized. *Prereq: Junior standing.*

**381 (581) Geography of Europe** (3) A systematic study of the cultural, economic, political and

physical characteristics of Europe. *Prereq: Junior standing.*

**410 Geographic Information Systems: Modeling and Applications** (3) A systematic study of the development of a GIS to produce analytical and spatial models of the natural and cultural environments. Data base development and spatial modeling will be emphasized. *Prereq: Junior standing or permission of instructor.*

**441-442 (641-642) Travel-Study** (3, 3) A faculty-supervised domestic and/or international educational group tour. A maximum of six credit hours can be counted towards a major.

**444 Geography Internship** (3-9) Provision for an advanced geography student to benefit by supplementary practical experiences in a particular branch of Geography. Specific assignments are arranged in consultation with an adviser during the semester preceding that in which the student expects to enroll in this course. Course performance is based on specific academic and work assignments. Grades will be based upon academic performance and work evaluation by a job supervisor. The internship may or may not include monetary compensation. This course can be taken only once. *Prereq: Permission of supervising instructor and Junior standing.*

**461 (661) Economic Geography** (3) A study of the spatial patterns, processes and developmental aspects of production. Concepts, models and current literature related to the geography of agriculture, mining, manufacturing, retailing and services are examined. *Prereq: Junior standing.*

**462 (662) Political Geography** (3) A study of the spatial forms and processes of political phenomena. Concepts, models and current literature related to territories such as nation-states and congressional districts, the formation and dissolution of empires, geopolitics and international conflict are examined. *Prereq: Junior standing.*

**471 (671) Cartography** (3) An introduction to map interpretation and design. Concepts and techniques related to map preparation, data management, the use of thematic symbols and graphic design are presented. *Prereq: Junior standing.*

**472 (672) Climatology (3)** A non-mathematical analysis of systematic and regional atmospheric behavior. First part of course deals with basic physical laws affecting the elements of weather. The second part of the course examines the distribution of climates and the impact of climates on human activity. *Prereq: Junior standing.*

**481 Research Practicum (3)** A seminar course in which upper-division students undertake a research project under faculty supervision and guidance. The student will be responsible for the project selection, a literature review, research design, analysis and a final report. Students will be required to submit a formal written paper and to present an overview of their project through an oral presentation to a faculty committee. In addition to the research project requirements, students must also formally submit a Portfolio consisting of original copies of substantive papers, maps and other work produced through assignments completed in other upper-division geography courses. *Prereq: Senior standing and permission of instructor.*

**491-492 (691-692) Special Topics in Geography (1-3, 1-3)** Seminars or guided readings on a selected topic in geography. A maximum of six credit hours can be counted towards a major. *Prereq: Permission of instructor.*

## Geology (GEOL)

**110 Introduction to Physical Geology (4)** An examination of the composition and structure of the earth and its internal and surface processes with applications to the environment, natural resources and geologic hazards. Three hours lecture and two hours lab. Students cannot receive credit for both GEOL 110 and GEOL 111. GEOL 110 is a prerequisite to GEOL 120.

**110H Honors Introduction to Physical Geology (4)** See GEOL 110 above for course description and general limitations. This course is open to students who are participants in the Honors Program. Other students who have demonstrated superior academic ability may be eligible to register for this course as well and must receive consent of the instructor prior to enrollment. (Same as GEOL 110 but for Honors credit and may not be taken in addition to GEOL 110.)

**120 Environmental Geology (4)** The application of the principles of physical geology to environmental problems, including pollution, natural hazards and resource production. Topics include: volcanic, earthquake, flood and landslide hazards; surface and ground water pollution, economic resources and reserves including transportation, production and use; and broader issues such as global warming. Three hours lecture and two hours lab. *Prereq: GEOL 110.*

**120H Honors Environmental Geology (4)** See GEOL 120 above for course description and general limitations. This course is open to students who are participants in the Honors Program. Other students who have demonstrated superior academic ability may be eligible to register for this course as well and must receive consent of the instructor prior to enrollment. (Same as GEOL 120 but for Honors credit and may not be taken in addition to GEOL 120.)

**121 Engineering Geology (3)** The elements of physical and historical geology as they relate to engineering practice. Not to be taken by Geology majors or minors. Two hours lecture and two hours lab.

**210 Methods in Geoscience (2)** Survey of the field and lab methods and associated technology commonly used by geologists and geographers. Topics include: nature of spatial data, map interpretation, basic GPS and GIS, remote sensing, microscope analyses, research design, field study design and implementation, literature searches, scientific and technical writing, preparation of oral presentations, geostatistics. *Prereq: GEOL 110-120 or GEOG 151-152 or GEOG 201-202.* (Same as GEOG 210)

**315 (515) Principles of Oceanography (3)** Survey of the physical, chemical, biological and geological processes occurring in the world's oceans, including natural resources for legal-political problems associated with the marine environment. Course is designed for science and science education majors. Students cannot receive credit for both GEOL 315 and GEOL 310. *Prereq: one year sequence in a science or permission of instructor for graduate credit.*

**320 (520) Mineralogy (4)** A study of the crystallography, classification, identification and the systematics of mineral families. Lab includes hand

specimen analytical methods of identification. Three hours lecture and two hours lab. Students cannot receive credit for GEOL 320 (520) and GEOL 318 (518). *Prereq: GEOL 110, CHEM 121, and MATH 140 or equivalent.*

**325 (525) Fossils: Life Through Time (3)** Hands-on approach using fossils to explore the 4.6 billion year history of life on Earth. Topics include: origin of life; rise of multicellularity and Eukaryotes; advent of shell, bone and teeth; Vendian-Cambrian explosion of life; marine invertebrate ecosystems through time; origin and evolution of primary plant groups; origin and evolution of the major vertebrate groups (fish, amphibians, reptiles, birds, mammals, humans); colonization of land by plants and animals; evolution of flight in insects and vertebrates; mass extinction events and the demise of Earth's biodiversity. *Prereq: GEOL 110 or BIOL 120 or permission of instructor. GEOL 350 recommended.*

**330 (530) Igneous and Metamorphic Petrology (4)** A study of the genesis, classification and identification and tectonic setting of igneous and metamorphic rocks. Lab includes hand specimen and optical methods of identification. Three hours of lecture and two hours of lab. Students cannot receive credit for both GEOL 330 (530) and GEOL 331 (531). *Prereq: GEOL 320 or instructor's approval.*

**340 (540) History of the Earth (4)** Physical and biological evolution of Earth—past, present and future, with emphasis on scientific methods used to study the geologic record. Topics include: geologic time, rocks and fossils as historical archives, reconstructing ancient environments, global sea level and atmosphere change, plate tectonics and mountain building, mechanisms and evidences of organic evolution and a survey of Earth's past and present biodiversity. Three hours lecture and two hours lab. *Prereq: GEOL 110.*

**345 (545) Natural Hazards (3)** An advanced examination of volcanic hazards, earthquakes, flooding, mass movement, subsidence, extraterrestrial impacting and the geological implications of extreme weather events. Societal implications and remediation of these hazards is emphasized. Project required. Three hours lecture. *Prereq: GEOL 110 and 120.*

**350 (550) Principles of Paleontology (4)** Field and lab techniques used to obtain information from fossil-bearing rocks and sediment. Major topics of emphasis include: paleoecology, functional morphology, evolutionary theory, extinction processes and paleobiogeography. Lab exercises will stress the use of common fossil taxa as paleontological tools to address issues in earth history. Students cannot receive credit for GEOL 350(550) and GEOL 351(551). Three hours lecture and two hours lab. *Prereq: GEOL 110 or instructor's approval.*

**355 (555) Principles of Geomorphology (3)** A study of the process mechanics operating within the earth's surficial systems and the resultant landforms derived from these processes; information obtained is used to analyze how landform history manifests past climatic or tectonic phenomena. Students cannot receive credit for GEOL 355(555) and GEOL 451(651). *Prereq: GEOL 110 and either GEOL 120 or instructor's approval.* (Same as GEOG 355/555)

**360 (560) Sedimentology (3)** A study of principles of sedimentology, sedimentary petrology, depositional processes and environments. Two hours of lecture and two hours of lab per week. Students cannot receive credit for both GEOL 360(560) and GEOL 411(611). *Prereq: GEOL 110 and 120. Recommended: GEOL 320.*

**365 (565) Tennessee's Geologic and Cultural Landscapes (3)** Lectures and field excursions emphasizing the interactions of geology and culture in Tennessee. Geologic topics include: physiographic regions and geologic history, landforms, structural and tectonic history, natural and economic resources and environmental issues across the state. Cultural topics include: settlement history, economic development, political patterns and distribution of populations. Attention is given to current state issues. *Prereq: GEOL 110-120 or GEOG 201-202.* (Same as GEOG 365/565)

**370 (570) Principles of Stratigraphy (2)** Methods of correlating rock strata according to North American Stratigraphic Code including lithostratigraphy, chronostratigraphy and biostratigraphy. Two hours lecture per week. *Prereq: GEOL 360.*

**375 (575) Earth Systems Science (3)** Investigations in Earth Systems Science using inquiry-based exploration of Earth's processes and environments including the lithosphere, atmosphere, biosphere, hydrosphere and astrosphere. The course will focus on problem-based and student-centered learning techniques, so it will be especially applicable to anyone intending to or currently engaged in teaching science courses. The course is taught completely online, with the participant doing a combination of individual and group coursework via an asynchronous discussion board. An optional field trip for hands-on learning will be made available. Prerequisites for graduate credit: Bachelor's degree or Senior standing and permission of the instructor. *Prereq for undergraduate credit: Minimum of eight (8) hours of undergraduate lab-based science and permission of the instructor.* (Same as GEOG 375/575)

**400 (600) Structural Geology (4)** Description and interpretation of deformation processes and common geologic structures such as folds, faults, joints and cleavage. Lab topics include: map interpretation, depth and thickness problems, construction of structure sections, structure contour maps, stereonet. Three hours lecture and two hours lab. *Prereq: GEOL 330, 370.*

**445 (645) Geohydrology (3)** A study of the water cycle, especially those parts dealing with streams, ground water and water quality. Two hours lecture and two hours lab. *Prereq: MATH 140, GEOL 110, CHEM 121.*

**450 Methods in Field Geology (3)** Students will participate in field projects during their senior year. Methods include measurement, description and interpretation of rock sections; use of instruments in the collection and the analysis of data; construction and interpretation of geologic maps and cross-sections; writing technical reports and the delivery of oral reports. This course is designated as the Writing and Speaking Across the Curriculum course in geology. *Prereq/Coreq: Senior standing and instructor's approval.*

**475 (675) Travel Studies in Geology: (Title)** (1-4) Students study the geology and geologic

history of a given locale through extended travel to the designated region of study. Travel sites vary each year and may be either domestic or foreign. Pre- and post-course meetings with lectures, discussion groups and independent topic research are used in conjunction with field study activities. Students are responsible for their own travel expenses, fees, personal health and life insurance and any other expenses when the semester topic requires it. This course may be repeated for credit with different topics. No more than four hours credit may be counted toward requirements for major or minor.

**485 (685) Special Topics in Geology: (Title)** (1-4) Intensive lectures and/or lab work on special topics in geology. Topics include, but are not limited to: Geology of State and National Parks, Geophysics, Clastic Petrology, Carbonate Petrology, Geochemistry, Paleocology, Biostratigraphy and Paleobiogeography, Economic Geology, Geoscience Education, Comparative Planetology, History of Geology, Geoarchaeology. *Prereq: Instructor's approval. This course may be repeated for credit with different topics. No more than four hours credit may be counted toward requirements for major or minor.*

**495 Senior Research Project (1-3)** Seniors, by invitation of the geology faculty, propose and pursue research under the supervision of a faculty member. Students will submit a paper for review by a faculty committee of two or more members of the geology faculty and perhaps faculty members from other disciplines involved in the research. Graded on a Pass/Fail basis.

## Geoscience Education (GEDU)

**700 Advanced Earth Systems Science (3)** Investigations in Earth Systems Science is a detailed exploration of Earth's interacting global processes and environments including the lithosphere, atmosphere, biosphere, hydrosphere and astrosphere. The course uses Problem-Based and Student-Centered learning techniques and is taught completely online. A combination of individual and group coursework via an asynchronous discussion board is utilized.

**710 Advanced Physical Geology for Educators**

(3) An advanced study of physical geology intended to provide teachers with the foundation knowledge of Earth's internal structure, plate tectonics, rock cycle, weathering and earth materials; natural resources, geochemical cycles; and the basis for geologic time and the history and nature of science. *Prereq: GEDU 700 and permission of instructor.*

**720 Oceanology for Educators**

(3) Detailed study of modern and ancient oceans. Topics include ocean floor topography and bathymetry; marine sediments and ocean floor volcanism; waves, tides and currents; air/sea interactions, ocean chemistry, marine ecosystems and evolution of ocean systems through geologic time; paleoceanography. *Prereq: GEDU 700 and permission of instructor.*

**730 Understanding Evolution**

(3) Detailed study of cosmic, geologic and organic evolution and with emphasis on the history of evolutionary thought and methods scientists use to investigate evolution. Special emphasis is given to common misconceptions about evolution, includes approaches to correcting inaccuracies, incomplete knowledge and misconceptions students have about evolution as well as strategies for improving teaching and learning about evolution. *Prereq: GEDU 700 and permission of instructor.*

**740 Field Experience in Geoscience: [Title]**

(1-3) Field experiences may include summer workshops or institutes, extended weekend field courses, travel courses, field camps, or extended field trips. Field experiences may have an online component, but the core of the course is practical in-the-field participation emphasizing the application of principles and methods of geoscience investigation and education. *Prereq: GEDU 700 and permission of instructor.*

**750 Global Climate Change**

(3) Detailed study of the geographic patterns and physical processes of global climate change throughout Earth's history and assessments of future climate change scenarios. The course will examine the evidence of climate change in the geologic and fossil record and investigate the various types of models that predict future climate changes. *Prereq: GEDU 700 and permission of instructor.*

**760 Astrophysics for Educators** (3) Detailed study of the formation, evolution and structure of the universe, galaxies and stars. Topics include the Big Bang model, nucleosynthesis and interstellar medium, dark matter and dark energy, stellar remnants and star nebulae, stellar activity, the Sun as a star, modern instrumentation and space missions and studying motion and light. *Prereq: GEDU 700 and permission of instructor.*

## German (GERM)

**111 Elementary German**

(4) (TBR: GERM 1010) An introductory course emphasizing listening, speaking, reading and writing. May be used to remove a language deficiency or for students with no prior experience in the language. Three one-hour lectures and two one-hour labs.

**122 Elementary German**

(4) (TBR: GERM 1020) An introductory course emphasizing listening, speaking, reading and writing. Three one-hour lectures and two one-hour labs. *Prereq: GERM 111 or equivalent as determined by the department.*

**222 Intermediate German**

(4) Grammar review, reading, writing and conversation. Three one-hour lectures and two one-hour labs. *Prereq: GERM 122 or equivalent as determined by the department.*

**250 Germany Today: The German People and Their Culture**

(3) An interdisciplinary study of contemporary Germany, with an overview of Austria and Switzerland. Emphasis on the life-styles, customs, mentality and culture of the German people. Discussion of current trends in German society, politics, economy and the arts. Consideration of the cultural, social and political differences between Germany, Austria and Switzerland and of the leadership role that falls to Germany as the leading country in the European Union. Taught in English.

**300 (500) Intensive Conversation in a Foreign Country**

(3) In-residence training in the foreign language of the area visited. The course elected must be approved in advance by the Chair of the Department of Modern Foreign Languages. Research project required for graduate credit. *Prereq: GERM 222 or equivalent.*

**321 Introduction to German Culture (3)** An overview of German civilization and culture of the past 1200 years in order to enhance the understanding of Germany today and its role in present-day Europe. *Prereq: GERM 341 or 342 or instructor's approval.*

**330 Twentieth-Century German Drama (3)** Introduction to German Drama, with emphasis on the Expressionists, Brecht, new trends after World War II, the Swiss and the radio play. Taught in English. No foreign language credit. Offered in alternate years. *Prereq: Six semester hours of Western world literature or instructor's approval.*

**341 (541) Advanced Conversation (3)** Emphasizes conversational skills. Oral practice to extend range of topics, vocabulary, fluency and conversational strategies. Study of the phonetic system of the German language and exercises to improve pronunciation. Grammar appropriate for oral German. Discussions utilizing readings and electronic media such as videos and the internet. Class presentation of research project required for graduate credit. Heritage speakers and those with near-native abilities in German are not eligible to take this course. If they intend to major in German or earn a Certificate of Proficiency, they should see the department chair for a waiver. *Prereq: GERM 222 or instructor's approval.*

**342 (542) Advanced Composition (3)** Emphasizes composition skills. Written practice to extend range of topics, vocabulary, fluency and compositional strategies. Grammar and stylistics appropriate for written German. Practice writing expository and creative prose, translations as well as use of internet discussion lists. Class presentation of research project required for graduate credit. *Prereq: GERM 222 or instructor's approval.*

**350 Masterpieces of German and Austrian Literature (in English Translation) (3)** In-depth discussion of selected literary masterpieces from Germany and Austria. Emphasis on characters, themes and social trends which reflect the culture and traditions of both countries. No knowledge of German required; taught in English. Does not count towards major, minor or Certificate of Proficiency in German. *Prereq: English 111-112.*

**360 (560) Studies Abroad (3)** In-residence study of the literature, language, or civilization of the area visited. Relevant field trips. Must be approved in advance by the Chair of the Department of Modern Foreign Languages. Research paper required for graduate credit. *Prereq: GERM 341 or 342.*

**370 (570) Travel Study (1-3)** A combination of travel and study experiences in the U.S. or abroad designed to enrich students' knowledge of the target foreign language and culture. May be taught as an organized study tour under faculty supervision or as an independent travel and study project with prior department approval. Topics, prerequisites and course requirements announced in advance. Research paper required for graduate credit. Students may repeat course with change of topic for maximum of six hours credit. Chair of the Department of Modern Foreign Languages approval must be obtained for travel-study courses to count towards minor, major, or Certificate of Proficiency. Not regularly offered.

**381-382 (581-582) Survey of German Literature (3, 3)** 381: Beginning to Enlightenment. 382: 18th-20th Centuries. *Prereq: GERM 341 or 342 or instructor's approval.*

**401 Foreign Language Internship (3)** Utilization of the target foreign language in a monitored work environment. Appropriate placements may be found locally, nationally, or abroad. Students may or may not be paid. Evaluation by both supervising instructor and on-the-job supervisor. Chair of the Department of Modern Foreign Languages approval must be obtained for internships to count towards minor, major, or Certificate of Proficiency. *Prereq: GERM 341 or 342.*

**451 (651) The Language of Business and the Professions (3)** Study of the basic terminology and documents of business and various professions as practiced within the Germanic world. In addition to business, professions such as communications, travel and tourism, agriculture and criminology will be covered. Composition of business letters and résumés, translation and presentation of oral reports. Research paper required for graduate credit. *Prereq: GERM 341 or 342 or instructor's approval.*

**491 (691) German Cinema (3)** A survey of 20th century German film from inception to contemporary manifestation. Discussion of the major German directors and their impact on the medium of film. Special emphasis placed on the silent films of the prewar years, the Weimar period and the New German Cinema. Film's reflection of social, political and cultural issues in Germany highlighted throughout. Research paper required for graduate credit. *Prereq: GERM 341 or 342 or instructor's approval.*

**495-496 (695-696) Topics in German Language, Literature, or Civilization (1-3, 1-3)** Study of selected aspects of German language, literature, or civilization. Taught in German. Topics and prerequisites announced in course schedule. Research paper required for graduate credit. Students may repeat course with change of topic. Only six hours of topics courses may count towards a minor, major, or Certificate of Proficiency. Not regularly offered.

**498-499 (698-699) Independent Study (1-3, 1-3)** Directed reading or research under supervision of a staff member. Available only to Juniors and Seniors having completed at least six hours of upper-division coursework in German. Project must be approved by faculty in the discipline concerned and the department chair. Research paper required for graduate credit. Students may take no more than six hours of independent study.

## Graphic Design (GDES)

**322 Graphic Design (3)** Computer-based design, tools and practices through actual use in the design lab. A brief history of graphic design placing issues of the new media in context with the aesthetics of visual art. *Prereq: ART 221-222 and ART 241-242, or permission of instructor.*

**335 Graphic Design II (3)** Course will continue to explore fundamental graphic design concepts and strategies as well as photo-based image editing, discussion of contemporary trends in digital media and technical standards in the field. *Prereq: GDES 322 or permission of instructor.*

**345 Digital Photography (3)** Advanced studio work specifically utilizing the digital camera and

a variety of software applications to create digital imagery for multiple uses and platforms. Concentration on development of a personal aesthetic. *Prereq: GDES 335.*

**410 Typography and Page Layout (3)** An advanced studio course specifically investigating the use and function of type in historical and contemporary print production. The development of advanced page layout skills for commercial and informational design will also be integrated into this study of typography. *Prereq: GDES 335.*

**425 Interactive Multimedia (3)** An introduction to sequential interactive information delivery systems. Exploration, composition and delivery of complex multimedia content in user-driven formats such as the World Wide Web or other interactive media authoring solutions. Incorporation of digital and traditional media including sound, imagery and digital video into finished presentations which reflect visual literacy and sensitivity to digital aesthetics. *Prereq: GDES 335 or permission of instructor.*

**435 Advertising Design (3)** An advanced studio course in print- and media-based advertising design. Advertising strategy and production using industry standard computer software applications. Strong emphasis placed upon conceptual development, current graphic design aesthetics and the social context of the designer in advertising. *Prereq: GDES 335 or permission of instructor.*

**440 Professional Practices in Design (3)** Senior seminar for the examination and discussion of topics and issues related to the professional work environment in the design field and preparation of graphic design students for material and professional expectations in their discipline. A variety of topics such as portfolio presentation, career strategies and professional development through graduate studies will be covered through lectures, guest speakers and professional site visitations. *Prereq: GDES 335.*

**450 Internship in Graphic Design (3)** Application of graphic design skills and practices in a supervised assignment with an appropriate commercial or professional organization. *Prereq: GDES 335 or permission of instructor.*

## Greek (GREK)

**110-120 Elementary Greek** (3, 3) An introduction to the Greek language; translation, writing, readings in selected classical and koine sources, philosophical and religious. Some attention to the Greek background of medical/scientific and legal terminology. Does not meet foreign language degree requirement for B.A., B.S., B.S.C.J., or B.S.S.W. degrees. May be taken on Pass-Fail basis.

## Health (HLTH)

**111 Principles and Concepts in Personal Health** (3) Development of the understandings, attitudes and practices which contribute to better individual health.

**220 Advanced First Aid and CPR** (3) Procedures for emergency care and accident prevention. American Red Cross certification in Advanced First Aid and CPR available.

**303 (503) Pharmacology and Sports** (3) Pharmacology and sports examines classifications, therapeutic uses, actions and side effect/adverse reactions of major drugs related to sports activities. That knowledge base includes, but is not limited to, pharmacokinetics, legal concerns, therapeutic outcome of drugs commonly used to treat athletes, protocols for over-the-counter medications and substance abuse.

**325 (525) Stress Management** (3) This course is designed to help people know how to cope with stress in their lives. Being able to manage stress in a positive manner enhances the potential for maximum performance both professionally and personally. This course teaches the student how to recognize negative and positive stressors and how to cope accordingly.

**330 (530) Introduction to Epidemiology** (3) Introduction to the basic principles and methods of epidemiology. Topics to be covered include the historical perspective of epidemiology, measures of disease occurrence and association, clinical epidemiology, disease screening, causal inference and study design.

**351 Substance Abuse Prevention** (3) This course examines the scope of substance abuse in

the United States and explores the various strategies of prevention. Addictive behaviors, dependence and short and long term consequences of drug use and abuse including prescription drugs, illicit street drugs and ergogenic substances will be covered.

**353 Human Sexuality** (3) This course addresses the relationship between health and human sexuality, focusing on the prevention of disease, disorder and dysfunction through education. Content examines the broad range of attitudes, behaviors, knowledge, practices and myths pertaining to sexuality.

**410 Health Education and Promotion** (3) As a guide to the field of health education and promotion, this course addresses the theoretical base needed to develop behaviors conducive to well-being or a change in behaviors conducive to health. *Prereq: HLTH 111.*

**475 Health Methods** (3) Introduction to a variety of methods and materials that can be utilized in teaching health content. Also, emphasis on the writing of goals and objectives, the design of unit plans and lesson plans and the construction of evaluation instruments. *Prereq: Admission to Teacher Education.*

**485 (685) Workshop in Health: [Title of Workshop]** (1-3) Workshop on selected topics. No more than six hours workshop credit may be applied to an undergraduate or graduate degree in education. *Prereq: Instructor's approval.*

**700 Developing, Implementing and Evaluating Health Promotion Programs** (3) This course examines the philosophy, rationale and guidelines for developing health promotion programs for the corporate and community sectors. This course addresses planning, developing, implementing and evaluating health promotion programs for a realistic, understandable approach to planning health promotion programs.

**703 Advanced Pharmacology and Sports** (3) In-depth examination of the therapeutic uses, actions and side effects/adverse reactions of major drugs related to sport participation. Emphasis is given to, but not limited to, current issues regarding legal concerns, over-the-counter medications and substance abuse.

**775 School Health Methods** (3) Review of methods and materials available for utilization in teaching health. Designed to provide additional strategies for health instruction through examination of current health literature, characteristics of effective teaching and techniques for planning and implementing effective programs in health.

## Health and Physical Education (HPED)

**20- Topics in Sports Officiating [name of sport]** (2) Training of students in the psychology of officiating, the mechanics and court positioning to officiate interscholastic, recreational and intramural sports as selected using the third digit: 1 for basketball, 2 for baseball/softball, 3 for football, 4 for soccer, 5 for volleyball. Certifications are made available. May enroll in one or more selected sports.

**308 Clinical Classroom I** (3) Field-based experience for health and physical education focusing on theories and application of research in classroom management. Introduction to the language and skills of pedagogy while modeling professional behavior when applying all these skills in actual school settings. Grades K-12. Portfolio checkpoint.

**309 Clinical Classroom II** (3) Field-based experience for health and physical education emphasizing the development and practice of effective teaching skills as related to teaching and learning styles, strategies for teaching and models of instruction. Addresses attitudes, knowledge and skills as defined by the College of Education and Behavioral Sciences Conceptual Framework including entry level portfolio development. Grades K-5. Portfolio checkpoint. *Prereq: HPED 308, 320 and HLTH 111.*

**310 Developmental Physical Education for Elementary and Middle School Children** (3) Overview of the purpose, curriculum components and instructional approaches appropriate to developmental readiness stages of the elementary and middle school child. *Prereq: Admission to Teacher Education.*

**320 Foundation and Sport Skills** (3) Addresses historical foundations of health and physical education in addition to NASPE guidelines and curriculum

issues related to developmentally appropriate locomotor, rhythmic and sport skills. Requires demonstration of performance proficiency in selected team and individual sport skills.

**411 Clinical Classroom III** (3) Field-based experience for health and physical education at the secondary level emphasizing pre-assessment, unit/lesson planning, implementation and evaluation. Introduction to curriculum design and implementation from a historical and education governance perspective. *Prereq: HPED 309; HLTH 351, 352, 353, 354; Admission to Teacher Education.*

**412 Public Relations for Teachers and Coaches** (2) Examines the concepts of program promotion, coordination of non-academic responsibilities and understanding relationships with administrators, teachers, parents and community. *Prereq: HPED 411.*

**460 Theory and Techniques of Coaching Baseball/Softball** (3) Individual and team fundamentals primarily for the public school coach. Emphasis on conditioning techniques, strategies, team management, motivation, equipment selection/fitting and scheduling.

**465 The Theory and Techniques of Coaching Basketball** (3) Emphasis on conditioning techniques, strategies, team management, motivation, equipment selection/fitting and scheduling.

**470 The Theory and Techniques of Coaching Football** (3) Emphasis on conditioning, techniques, strategies, team management, motivation, equipment selection/fitting and scheduling.

**475 The Theory and Techniques of Coaching Volleyball** (3) Emphasis on conditioning, techniques, strategies, team management, motivation, equipment selection/fitting and scheduling.

**485 (685) Workshop in Physical Education: [Title of Workshop]** (1-3) Workshop on selected topics. No more than six hours of workshop credit may be applied to an undergraduate or graduate degree in education. *Prereq: Instructor's approval.*

**490 Practicum** (3) Supervised field-based experience in coaching and/or athletic related area. Application must be filed one semester prior to enrolling in practicum. *Prereq: Instructor's approval.*

**730 Theory and Application in Sport Pedagogy**

(3) In-depth exploration of motor learning and development principles as it relates to the teaching-learning process for motor skill acquisition. Appropriate educational practices and intervention procedures will be discussed in relation to developing effective practice techniques and training regimes.

## History (HIST)

**121 Development of World Civilization I (3)**

(TBR: HIST 1110) Traces forms of civilization from ancient beginnings through the 17th century. Especially recommended for freshmen.

**122 Development of World Civilization II (3)**

(TBR: HIST 1120) Traces forms of civilization from beginning of 18th century to the present. Especially recommended for freshmen.

**121H-122H Honors Development of World Civilization (3, 3)**

Open to students who have demonstrated superior academic ability. Consent of department required. See HIST 121-122 for course descriptions. (Same as HIST 121-122 but for honors credit and may not be taken in addition to HIST 121-122).

**200 Introduction to International Studies (3)**

An interdisciplinary course to introduce students to the important large scale issues and conditions which are active in the contemporary world. Included are global perspectives dealing with cultural, ecological, economic, geographical, political and social issues.

**201 History of the United States I (3) (TBR:**

HIST 2010) A study of the main currents and developments in American life from colonial times to 1877.

**202 History of the United States II (3) (TBR:**

HIST 2020) A study of the main currents and developments in American life from 1877 to the present.

**301 History and Historians (3)**

An upper-division course designed to introduce students to basic techniques, skills and issues of historical research, writing and teaching, including key historical concepts and methods, the nature and fields of history and historiography. Should be taken during the junior year and prior to taking HIST 499 for which it

is a prerequisite. Seniors need instructor's permission to register. Required for History and Secondary History majors. Offered every fall.

**302 (502) Introduction to Public History (3)**

Explores the various opportunities for work as a public historian and addresses the current issues and debates in the field. Students will learn about the major functions of public history work. May be followed by a semester internship in public history.

**303 (503) Women in American History (3)**

Explores the lives of American women through the prism of class, race and ethnicity—in relationship to each other, to their families, to their work at home and in the public sphere and to their influence on American society and culture. Beginning with the European settlement of North America and continuing until the present, women's history will be woven into a presentation of the American past. (Same as WMST 304)

**310 American Military History (3)**

American military history from the American Revolution to the present. Evaluation of significant battles from the viewpoints of the participants, their resources, decision-making techniques and the nine principles of war. Discussion of all of America's wars. Emphasis on the Civil War, World War I, World War II, Korea and Vietnam. (Same as MSL 310)

**320 (520) Ancient Greece (3)** A study of Greek society from Minoan civilization to the Hellenistic Age (1400-300 BC). Topics include hoplite warfare, Greek colonization, the Olympics, Sparta, Periclean Athens, the Persian and Peloponnesian Wars and the empire of Alexander the Great.

**321 (521) Ancient Rome (3)** A study of Rome's cultural and political development from 700BC to 400 AD. Examines Rome's origins as a small city state to its rule over a vast empire that stretched from Britain to the Middle East. Topics include the formation of the Roman Republic, expansion, civil war, imperial government and the development of Christianity.

**331 History of Tennessee (3) (TBR: HIST 2030)** Tennessee history from the view of the culture of the Indian tribes living in this area through early European settlement, the Revolutionary War in Tennessee and the organization of Tennessee as a state. Social

and economic life on the frontier, the culture of the pre-Civil War South, the Civil War and Reconstruction periods in Tennessee and from the Progressive era to the present.

**334 Frontier History: The Atlantic to the Mississippi** (3) The settlement of the eastern half of the American continent to 1850, the significance of land in the development of the colonies and the American nation, development of frontier institutions and American Indian-white contacts. Considerable attention given to agricultural developments.

**335 Frontier History: The Mississippi to the Pacific** (3) The settlement and economic development west of the Mississippi River from the Spanish entry through the agricultural unrest of the 1890's. Fur traders, settlement of Texas, Oregon and California, the Mormon migration, the Mexican War, Forty-niners and other miners, American Indians, cattlemen, the Farmer's Frontier and the Agricultural Revolution.

**340 (540) The Age of Enlightenment and Revolution, 1715-1815** (3) A study of 18th century European political, social, economic and intellectual history, including the French enlightenment and its influence on Europe and America. Set against the background of military and diplomatic developments of global war, the course will examine the causes of the French Revolution and Napoleonic era.

**341 (541) Restoration, Revolution and Colonialism, 1815-1914** (3) A study of the Industrial Revolution, the Congress System, the Revolutions of 1848, Bismarckian diplomacy and balance of power politics. Topics include an examination of artistic and intellectual transformations, the rise of ideologies, including Liberalism, Nationalism, Socialism and Marxism, the impact of imperialism and the causes of World War I.

**342 (542) From War to War, 1914-1945** (3) A study of the course of World War I and the origins and course of World War II, with a focus on balance of power politics and the nature of total war. Topics include the impact of the Russian Revolution of 1917, Stalinism, Nazism, Fascism, the decline of Western Democracies, the ordeal of total war, the internationalization of diplomacy and the creation of modern mass welfare societies.

**343 (543) Contemporary Europe, 1945 to Present** (3) A study of the major political, economic, diplomatic, social and cultural developments in western and eastern Europe since 1945. Special attention is given to the European dimension of the Cold War, the demise of communism, the reshaping of the European geography since the fall of the Berlin Wall and the future of the European Union.

**401 Independent Study in American History** (3) Directed reading or research under supervision of a staff member. By arrangement only. *Prereq: 24 hours of history with a 3.00 average (in history), 2.50 average (overall) and departmental approval.*

**402 Independent Study in European or Asian History** (3) Directed reading or research under supervision of a staff member. By arrangement only. *Prereq: 24 hours of history with a 3.00 average (in history), 2.50 average (overall) and departmental approval.*

**403-404 (603-604) Social and Cultural History of the United States** (3, 3) Based on an analysis of gender, race, class and ethnicity, this course examines American society "from the bottom up," looking at such issues as the environment, health and demography, religious values, industrialization, cities and suburbia, courtship, social movements, popular culture and everyday life. 1600 to 1860 (403). 1860 to Present (404).

**414-415 (614-615) History of England** (3, 3) A survey of English history from the Norman Conquest to the present. 1066 to 1714 (414). 1714 to the present (415).

**420 (620) Late Antiquity and Medieval History** (3) Examines European society from 300 to 1300, with particular emphasis on the development of the Christian church in Western Europe and Byzantium. Topics include the Papacy, asceticism and monasticism, the Frankish and Carolingian kingdoms, the Inquisition and the Crusades.

**421 (621) Renaissance and Reformation** (3) Examines the social, political, intellectual, artistic and religious developments in Europe from the thirteenth through the sixteenth centuries and the resulting changes, with emphasis on the Humanist movement, the Reformation and the Counter Reformation.

**422 (622) Modern Germany, 1815 to the Present** (3) Focuses on the forces leading to the unification of Germany, the age of Bismarck, the rise and fall of the Third Reich. Concludes with a post-script on East and West Germany during the Cold War and the reunification of Germany.

**434 (634) African-American History I** (3) This course covers the background and origin of the slave trade in Africa, the mid-passage, the nature of the slave trade in the Americas, the Africans in America both as freemen and slaves, movements to end slavery and slave resistance efforts and the role of blacks in the Civil War.

**435 (635) African-American History II** (3) This course covers the African-Americans from the Reconstruction period to the present time. Topics included are the ending of slavery, the economic and political transition following it, the emerging debate over the role of the African-American in American life, the struggle for political and legal equality and the social and cultural development of African-Americans in the twentieth century.

**441 (641) History of Latin America** (3) From pre-Colombian civilizations to the present, this course examines main themes such as conquest, colonialism, independence movements and economic upheavals in all regions of Latin America and the Caribbean Basin, with special emphasis on the roles of church and state (including the military) and challenges of diverse and stratified societies.

**442 (642) History of Mexico** (3) Mexican history from pre-Hispanic civilizations (especially the Aztec Empire) to the present. Examines colonial Mexico, its movement towards independence, issues of political and economic stability, its relationship with the United States and its ongoing revolution.

**447 (647) History of Russia** (3) A survey of Russian history from the origins of Slavic history to 1917, including Kievan Rus', the conversion of Eastern Slavs to Christianity, the Mongol Conquest and Yoke, the Rise of Muscovy, Ivan the Great, Ivan the Terrible, the Time of Troubles, Peter the Great, the Conquest of Siberia, Catherine the Great, Russian and Enlightenment influences, the War of 1812, the Crimean War, the Great Reforms, the Russian

economy in the Nineteenth Century, Russian literary monuments, the revolutionary movement and the growing threat of World War I.

**448 (648) Russia Since 1917** (3) A study of the Soviet Union and Post-Soviet Russia from the origins of the revolutions of 1917 to the present. Examines the ideologies and personalities that have shaped political life as a backdrop to analyze Soviet society and culture, Stalin's reign of terror, the economic failure of Communism, Soviet foreign policy, the nationalities' problems and the breakup of the Soviet Union in 1991.

**450 (650) Public History Internship** (3-6) Full-time apprenticeship with a public or private historical agency or institution of local, regional, or national significance. May be taken at any time of the year and may be paid. *Prereq: HIST 302, 3.0 GPA in the major. Not limited to History majors.*

**460 (660) Topics in Diplomatic History: [Topic Title]** (3) Classes allowing for an in-depth study of the nature and styles of diplomacy and of selected topics pertaining to U.S., European, or non-European diplomacy through time periods from the beginning of civilization to the present. May be repeated for credit (with different topic). Only six hours of undergraduate topics courses (460, 470, 480, or 490) can be counted toward the major or minor. Not regularly offered.

**461 (661) The Colonial Period and the Revolution** (3) A study of the origins and development of the American colonies, with special attention given to those that formed the "original thirteen states." Social, cultural and religious differences and developments as well as political and military events. An examination of the causes and events that brought about the rupture of the ties to England and the military and diplomatic history of the Revolutionary War.

**462 (662) The Constitution and the Rise of the Federation** (3) A study of the problems for the Confederation after the drafting of the peace with England and an examination of the solutions found, or attempted, in the Constitutional Convention. The nature of the union formed by the ratification process and the subsequent changes in that union during the Federal Period. Review of the attempts to form a distinctly American culture.

**467 (667) Travel-Study [Selected Topics]**

(1-3) A course designed as an educational travel experience in American History and Culture within the United States under the supervision of a university instructor. May be taught as an organized study-tour or as an independent travel and study project. Topics, prerequisites and course requirements announced in advance. May be offered on a pass/fail basis. Students may repeat course (with different topics). Not regularly offered. Requires instructor's approval.

**468 (668) Travel-Study [Selected Topics]**

(1-3) A course designed as an educational travel experience in international history and culture in foreign countries under the supervision of a University instructor. May be taught as an organized study-tour or as an independent travel and study project. Topics, prerequisites and course requirements announced in advance. May be offered on a Pass/Fail basis. Students may repeat course with different topics. Not regularly offered. Requires instructor's approval.

**470 (670) Topics in World History: [Topics Title]**

(3) Classes in selected aspects of world history dealing with a global or comparative approach, such as, but not limited to, urbanization, technology, sports, disease, climate, demographics, food, rise and fall of civilizations, transportation, industrialization and migrations. May be repeated for credit (with different topic). Only six hours of undergraduate topics courses (460, 470, 480, or 490) can be counted toward the major or minor. Not regularly offered.

**480 (680) Topics in U.S. History: [Topic Title]**

(3) Classes in one or more of the following areas: (a) interdisciplinary approaches to historical periods and (b) specialized topics suitable for in-depth study. May be repeated for credit (with different topic). Only six hours of undergraduate topics courses (460, 470, 480 or 490) can be counted toward the major or minor. Not regularly offered. (Same as WMST 480 when topic offered is on gender issues in history.)

**481 (681) China and Japan to 1800 (3)** A survey of the traditional civilizations in China, Japan and Korea. Emphasis on their development, interactions, divergencies and the early impact of the Western presence in East Asia.

**482 (682) China and Japan, 1800 to the Present**

(3) An inquiry into the transformation of traditional China and Japan to the modern world, including the end of isolation and the impact of imperialism and modernization, an examination of the rise, fall and recovery of Japan, the misfortunes of Chinese republicanism and the Nationalist Party and the triumph of Communism in China.

**484 (684) History of Africa 1400 to Present**

(3) A survey of African history from the 15th century to the present, emphasizing the rise of colonialism, its significance to Africa's underdevelopment and African resistance to colonialism, with special focus on the histories of Algeria, South Africa, Rhodesia (Zimbabwe), Kenya, Angola and Mozambique.

**485 The Changing World Order (3)** A capstone course in the International Studies major. Designed to help students show their understanding and evaluation of contemporary world issues and reflect on their achievements and goals in the major. Students will have readings, presentations and a major paper.

**487-488 Undergraduate Participation in Historical Research and Writing (2, 2)**

A joint historical project undertaken by student and instructor on a topic of mutual interest which demonstrates and employs the historical method and aims to produce a contribution to the profession. By arrangement only. *Prereq: Open to history majors with Junior or Senior standing, minimum history grade of 3.00 and departmental approval.*

**490 (690) Topics in Non-U.S. History: [Topic Title]**

(3) Classes taught with an interdisciplinary and/or comparative approach, or allowing for an in-depth study of specialized topics in European or non-Western history. May be repeated for credit (with different topic). Only six hours of undergraduate topics courses (460, 470, 480 or 490) can be counted toward the major or minor. Not regularly offered.

**494 (694) Antebellum America, 1815-1850**

(3) A study of this remarkable period of American growth and expansion and the conflicts that pushed the nation toward the Civil War, with emphasis on the market and transportation revolutions, reform movements, the evolution of American democracy, territorial acquisition, the U.S.-Mexico War, slavery, sectionalism and presidential administrations, from Madison to Polk, particularly that of Andrew Jackson.

**495 (695) The Civil War and Reconstruction, 1850-1877**

(3) A critical inquiry into the inflammatory politics of the 1850s, the many causes of the Civil War, the course, conduct and significance of the American Civil War and its aftermath. Special emphasis on the military campaigns, emancipation, activity behind the lines, wartime diplomacy and reconstructing the nation.

**496 (696) Recent History of the U.S., 1900-1945**

(3) A study of the forces and personalities that shaped American history through Progressivism, WW I, an Age of Excess, Depression and government response and WW II.

**497 (697) Recent History of the U.S., 1945 to the Present**

(3) An assessment of the important activities and changes in American life brought on in large part by WW II and the subsequent competition between the U.S. and the Soviet Union.

**498 (698) The Sixties** (3) A critical inquiry into a tumultuous period in recent US history. Exploring the rise of the Civil Rights and Black Power Movements, the New Frontier and the Great Society, U.S. foreign policy and Vietnam, the anti-war, women's and counter-cultural movements and the conservative response to political, cultural and social change.

**701 Graduate Independent Study in American History**

(3) Directed reading or research under supervision of a faculty member to meet the needs of public school teachers of social studies. Significant reading and writing required. Topics, prerequisites and course requirements announced in advance.

**702 Graduate Independent Study in European or Asian History**

(3) Directed reading or research under supervision of a faculty member to meet the needs of public school teachers of social studies.

Significant reading and writing required. Topics, prerequisites and course requirements announced in advance.

**770 Advanced Topics in History [Selected Topics]**

(3) A course designed to provide instruction in specialization areas of history useful to public school teachers of social studies. Significant reading and writing required. Topics, prerequisites and course requirements announced in advance. Course may be repeated twice for credit toward the M.S. in Education with a major in teaching history. Not regularly offered.

## Honors (HONR)

**111 Humanity in a Global Perspective** (3) An interdisciplinary study of the relationships among the world's people and societies. International and cross-cultural relationships are studied from a wide range of academic perspectives. Faculty from a variety of disciplines lecture and lead discussions on a theme chosen for the semester. Active learning, critical thinking, writing and discussion skills are emphasized. Enrollment limited to students in good standing in Honors Programs or by permission of instructor.

**112 Humanity in a Social Perspective** (3) An interdisciplinary study of the relationship between the individual and social institutions, including the role of cultural diversity. The course focuses on the social and cultural interactions of individuals and groups. Social dynamics are studied from a wide range of academic perspectives. Faculty from a variety of disciplines lecture and lead discussions on a theme chosen for the semester. Active learning, critical thinking, writing and discussion skills are emphasized. Enrollment limited to students in good standing in Honors Programs or by permission of instructor. *Prereq: HONR 111 or permission of instructor.*

## Honors Seminar (HSEM)

**108 Honors Seminar** (1) Freshmen in the Honors Seminar Program can receive one semester hour of credit for fulfilling the requirements of the Honors Seminar Program. Freshmen in the Honors Seminar

Program participate in a series of seminars with a distinguished campus visitor and attend the public addresses of distinguished visitors throughout the academic year. A research paper is required. Students enroll in this course during the fall semester and complete program requirements during spring semester. An S grade will be assigned for the fall semester and changed to P or F at the end of spring semester when program requirements are completed. Under some circumstances, the course might be completed in one semester with the instructor's approval. This course is graded on a Pass/Fail basis.

**208 Honors Seminar** (1) Sophomores in the Honors Seminar Program can receive one semester hour of credit for fulfilling the requirements of the Honors Seminar Program. Sophomores enrolled in this course participate in a series of seminars with a distinguished campus visitor and attend the public addresses of distinguished visitors throughout the academic year. A research paper is required. Students enroll in this course during the fall semester and complete program requirements during spring semester. An S grade will be assigned for the fall semester and changed to P or F at the end of spring semester when program requirements are completed. Under some circumstances, the course might be completed in one semester with the instructor's approval. This course is graded on a Pass/Fail basis.

**308 Honors Seminar** (1) Juniors in the Honors Seminar Program can receive one semester hour of credit for fulfilling the requirements of the Honors Seminar Program. Juniors enrolled in this course participate by attending public addresses of distinguished visitors throughout the academic year. Submission of a course paper is also required. Students enroll in this course during the fall semester and complete program requirements during spring semester. An S grade will be assigned for the fall semester and changed to P or F at the end of spring semester when program requirements are completed. Under some circumstances, the course might be completed in one semester with the instructor's approval. This course is graded on a Pass/Fail basis.

**408 Honors Seminar** (1) Seniors in the Honors Seminar Program can receive one semester hour of credit for fulfilling the requirements of the Honors Seminar Program. Seniors enrolled in this course participate by attending public addresses of distinguished visitors throughout the academic year. Submission of a course paper is also required. Students enroll in this course during the fall semester and complete program requirements during spring semester. An S grade will be assigned for the fall semester and changed to P or F at the end of spring semester when program requirements are completed. Under some circumstances, the course might be completed in one semester with the instructor's approval. This course is graded on a Pass/Fail basis.

**S** (Satisfactory) Grade—For an explanation of this grade, see Grades section of university catalog.

## Human Learning (HLRN)

**311 Technology Integration** (2) Overview of methods for integrating technology into the K-12 curriculum. Emphasis is on the application of technology-based strategies to support K-12 student learning and classroom management. (One hour lab required.)

**325 Educational Psychology** (3) An overview of the application of psychology to the teaching/learning process. The creation of an effective learning environment is emphasized through the study of the teaching process, human development, learner differences, learning theory and motivation.

## Human Performance (HPER)

**206 Tumbling, Fitness and Self-Testing Activities** (3) Emphasis on the safe integration of basic tumbling, fitness and self-testing activities into the elementary and secondary school curriculum. Requires performance proficiencies in selected skills.

**207 Techniques in Strength and Conditioning** (3) Emphasis on health-related fitness assessments, weight training techniques, plyometrics, aerobic training, nutrition, ergogenic aids and flexibility.

**209 Professional Orientation (3)** Overviews the physical education and health education professions emphasizing the individual's role as a professional including behavior, values and career opportunities. Addresses attitudes, knowledge and skills as defined by the College of Education and Behavioral Sciences Conceptual Framework including entry level portfolio development.

**302-303 Fitness and Health Promotion Practicum (2, 2)** An introduction to a variety of career opportunities, developing a professional resumé, professional philosophy, professional goals and objectives and a professional portfolio. Includes a 45 hour supervised study and experience with a cooperating agency. Application must be approved and liability insurance purchased before student may enroll. *Prereq: Student must be a Department of Health and Human Performance major.*

**304 Adapted Physical Education (3)** Adaptive Physical Education is a course designed to modify activities and programs in the area of health and physical education for special populations.

**315 Historical and Philosophical Perspectives of Health, Physical Education and Sport (3)** A review of the heritage of health, physical education and sport and quest for understanding the philosophical perspectives that have evolved throughout history.

**350 Motor Behavior (3)** An examination of the sub-areas of motor development, motor control and motor learning. Emphasis is placed on the practical application of the principles and theories of these sub-areas by physical educators.

**360 Firearm and Boating Safety (3)** Various techniques in firearm and boating safety instruction. The participant will receive student certification in the areas of hunting and boating safety through the Tennessee Wildlife Resource Agency. Teaching instructor rating will also be available.

**415 Professional Leadership (3)** Emphasizes the skills and competencies required to succeed in sport and health-related professions. Coverage includes entry level career skills and opportunities, portfolio refinement, fundamentals of leadership and legal and sociological issues.

**432 (632) Sport and Exercise Psychology (3)** The emphasis of this course will be on the current issues and challenges facing active populations and their individual differences and behaviors. Intervention techniques and social-environment will be discussed as to their effects on sport behavior and performance.

**435 Nutrition for Health, Fitness and Sport (3)** Examines the role of nutrition for the physically active individual as it relates to health-related fitness and athletic performance. Topics include the human energy system, macro and micronutrients, weight management, hydration and nutritional supplements. *Prereq: NUTR 100; EXSC 430 or any human anatomy and/or physiology with a lab, or instructor's approval.*

**440 (640) Evaluation in Human Performance (3)** Overview of the procedures and instrumentation required in the administration of psychomotor skills testing and evaluation. Emphasis is on proper selection and administration of tests, appropriate evaluation of test results using basic statistical procedures (e.g., random sampling, correlation, t-tests, ANOVA).

**491 Internship (12)** One semester work experience with a cooperating agency. Application must be approved and liability insurance purchased before student may enroll. *Prereq: Must have all core coursework per discipline completed.*

**740 Sport and Exercise Nutrition (3)** In-depth look at nutrition as the foundation for physical performance. The role of various nutrients in providing energy and regulating physiological processes related to health, fitness and athletic performance will be studied. Critical evaluation of nutritional supplements as performance aids along with other related issues such as eating disorders will also be included. *Prereq: NUTR 100 or above; Exercise Physiology, or instructor's approval.*

**750 Workshop on Selected Topics [Title of Topic] (3)** Workshop on selected topics. May be repeated with variation in topic but no more than six hours of workshop credit may be applied to a graduate degree in Education. *Prereq: Instructor's approval.*

# Information Systems (INFS)

**151 Fundamentals of Business** (3) An introductory survey of the basic functional areas of business designed to acquaint students with the concepts and principles which underlie administrative practices in contemporary society. Not available for junior or senior Business majors.

## **211 Introductory Spreadsheet Applications**

(1) Hands-on experience in spreadsheet applications at the introductory level. Pass/Fail option.

## **212 Intermediate Spreadsheet Applications**

(1) Hands-on experience in spreadsheet applications at the intermediate level. Pass/Fail option.

*Prereq: INFS 211 or CSCI 201.*

## **213 Advanced Spreadsheet Applications**

(1) Hands-on experience in spreadsheet applications at the advanced level. Pass/Fail option. *Prereq: INFS 212.*

## **221 Introductory Database Applications**

(1) Hands-on experience in data base applications at the introductory level. Pass/Fail option.

## **222 Intermediate Database Applications**

(1) Hands-on experience in database applications at the intermediate level. Pass/Fail option. *Prereq: INFS 221 or CSCI 201.*

## **223 Advanced Database Applications**

(1) Hands-on experience in database applications at the advanced level. Pass/Fail option. *Prereq: INFS 222.*

## **231 Introductory Word Processing**

(1) Hands-on experience in word processing at the introductory level. Pass/Fail option.

## **232 Intermediate Word Processing**

(1) Hands-on experience in word processing at the intermediate level. Pass/Fail option. *Prereq: INFS 231 or CSCI 201.*

## **233 Advanced Word Processing**

(1) Hands-on experience in word processing at the advanced level. Pass/Fail option. *Prereq: INFS 232.*

## **241 Current Productivity Tools**

(1) Hands-on experience in current computer productivity tools

at the introductory level. Pass/Fail option. May be repeated for credit.

**251 Office Procedures** (3) Review and practical application of modern office procedures. *Prereq: INFS 211 and INFS 231 or CSCI 201.*

**290 Topics in Information Systems [Topic title]** (1-3) Lectures and/or special projects related to specialized topics in information systems. Course may be repeated for a maximum of six (6) credit hours. May be offered on Pass/Fail basis. *Prereq: Departmental approval required.*

## **310 Management Information Systems**

(3) A comprehensive overview of the use of management information systems and their applications to all functional areas of business including technical foundations and implementation of management and support information systems. *Prereq: Junior standing.*

**331 Professional Word Processing** (3) Advanced word processing application skills. Emphasis on strategies for selection of appropriate tools for advanced word processing techniques. A simulation project is included. *Prereq: INFS 233 or instructor's approval.*

**351 Business Communications** (3) Communication of business information through oral presentations and written letters and reports, including research papers/formal reports.

**361 Network Administration** (3) Introduction to concepts, terminology and application of network administration. Topics include network architectures, security, services and administration. *Prereq: INFS 310.*

**461 End-user Information Systems** (3) A survey of the major technologies used to support end users. Emphasis on technology selection and implementation, trends and issues relative to information system analysis and design, productivity measures, information economics and change management.

**462 Office Management** (3) Theory of planning, organizing and directing in the office environment. *Prereq: MGT 300.*

**480 Internship in Management Information Systems** (1-9) Supervised work experience in business establishments, institutions, or other organizations matched to the student's curriculum. May be repeated for up to a total of nine hours internship credit. A maximum of six hours may be used to fulfill degree requirements. *Prereq: Departmental approval is required; at least Junior standing.*

**481 Current Issues in Office Information Systems** (3) Seminar in current issues in the office information systems environment. Students are required to write research reports and give oral presentations. *Prereq: INFS 310.*

**490 Advanced Topics in Information Systems [Topic title]** (1-3) Lectures and/or special projects related to specialized advanced topics in information systems. Course may be repeated for a maximum of six (6) hours credit. May be offered on a Pass/Fail basis. *Prereq: Departmental approval is required.*

**491 Current Issues in Management Information Systems** (3) Seminar in current issues in management information systems. Students are required to research topics, write reports and give technology-assisted oral presentations. *Prereq: CSCI 351 or INFS 310.*

**761 Information Systems** (3) An advanced seminar in information systems and their applications to all functional areas of business.

## Interdisciplinary Studies (IDST)

**110-120 Introduction to Leadership** (2, 2) Academic and experiential knowledge of leadership theory and practice to guide the student in developing his or her leadership skills, understanding and analyzing leadership issues and appreciating the responsibilities for serving as a leader of a group or organization. Requirements include oral and written work as well as demonstration of skill development. Graded on Pass/Fail basis.

**150 Introduction to the Canadian People and Their Culture** (1-3) An overview of Canada today, with emphasis on the life-styles, customs and values of the Canadian people and their attitudes towards

the United States. This course is designed as an introduction to Canadian Studies and students are encouraged to take it in conjunction with other approved courses in the Canadian Studies program. Students who complete additional assignments in French (readings and written critiques) will receive two or three credits for this course.

**201 Introduction to Women's Studies** (3) Surveys the study of women in society. The primary goal is to explore how gender shapes our views and understandings. A further goal is to explain how class, race, ethnicity and age shape the female experience historically and across cultures. The relationship between cultural definitions of feminine behavior and the reality of women's lives, roles in work, the family, the arts, politics and the sciences is examined. (Same as WMST 201)

**250 Foundations in Canadian Studies** (3) An in-depth study of Canada as it has developed on the North-American continent from pre-colonial times to the present. Equal emphasis will be placed on Canadian geography, history, politics, literature and culture. Special attention will be given to the role played by Quebec in the formation of Canada and in Canadian society today.

**450 (650) Energy Studies** (3) A multidisciplinary course presenting the realities of diminishing fossil fuels, environmental consideration associated with energy resources and emerging sources of energy. Lectures and field excursions. For additional information about these courses and the frequency with which they are offered, contact Department of Geology, Geography, and Physics.

**711-712 Environmental Studies** (2, 2) An interdisciplinary study of a natural ecosystem involving biology, chemistry, geology, mathematics and physics. The course, a combination of lectures, lab and field work, is taught during the summer only. For additional information about these courses and the frequency with which they are offered, contact the Chair of the Department of Biological Sciences. *Prereq: K-12 science and/or mathematics teacher; and consent of instructor(s).*