

Course Listings



Course Listings

COURSES ARE LISTED ALPHABETICALLY
BY NAME OF DISCIPLINE

(Course numbers which have been changed since
the 2002 BULLETIN are listed in parenthesis.)

- Accounting (AC)
- Administrative Services (AD)
- Aerospace Studies (AS)
- Agriculture (AG)
- Agronomy (AO)
- Animal Science (AY)
- Anthropology (AI, AN)
- Art (AR)
- Art History (AH)
- Biological Sciences (BS)
- Biology (BI)
- Biology Gulf Coast Research Laboratory
- Botany (BO)
- Business Administration (BA)
- Business Law (BL)
- Chemistry (CH)
- Child & Family (CF)
- Clothing & Textiles (CT)
- Coaching Education (CG)
- Communication Disorders (CD)
- Communication Studies (SC)
- Computer Science (CS)
- Construction Management (CM)
- Counseling Programs (CP)
- Criminal Justice (CJ, CO, LE)
- Dance (DA)
- Early Childhood Education (CE)
- Economics (EC)
- Education (ED)
- Educational Administration (EA)
- Educational Foundations (EF)
- Educational Media (EM)
- Electronics Technology (ET)
- Elementary Education (EL)
- Engineering Physics (EP)
- English (EN)
- Environmental Science (EV)
- Exceptional Child Education (EX)
- Family Economics & Management (FE)
- Finance (FI)
- Food & Nutrition (FN)
- Foreign Language (FL)
- Forensic Science (FS)
- French (FR)
- Geography (GG)
- Geosciences (GO)
- German (GN)
- Health & Leisure (HL)
- Historic Preservation (HP)
- History, General (GH)
- History, United States (US)
- History, World (WH)
- Horticulture (HO)
- Housing & Interior Design (HI)
- Human Environmental Studies (HE)
- Industrial Education (IE)
- Industrial Management (IM)
- Information Systems (IS)
- International Education (IN)
- Japanese (JN)
- Literature (LI)
- Management (MG)
- Management Information Systems (MI)
- Manufacturing Engineering Technology (MN)
- Marketing (MK)
- Mass Communication (MC)
- Mathematics (MA)
- Medical Technology (MT)
- Music (ME, MH, MM, MP, MU)
- Nursing (NS)
- Philosophy (PL)
- Physical Activity (AT)
- Physical Education (PE)
- Physics (PH)
- Political Science (PI, PS)
- Psychology (PY)
- Quantitative Methods (QM)
- Recreation (RC)
- Religion (RS)
- Secondary Education (SE)
- Social Rehabilitation (SR)
- Social Work (SW)
- Sociology (SI, SO)
- Spanish (SN)
- Sport Management (SM)
- Technical Graphics (TG)
- TESOL (TL)
- Theatre (TH)
- University Studies (UI)
- Women's Studies (WS)
- Writing Proficiency (WP)
- Zoology (ZO)

Accounting (AC)

AC 200. Survey of Accounting.

A survey course combining financial and managerial accounting as a unified body of knowledge and management's use of accounting information. Can not be applied toward major or minor requirements in business. (3)

AC 221. Principles of Financial Accounting.

A study of financial accounting. The valuation of assets, liabilities, owner's equity, revenues, and expenses is detailed. Prerequisites: AD 101 with a minimum grade of 'C'; MA 134 with minimum grade of 'C'; sophomore standing. (3)

AC 222. Principles of Managerial Accounting.

Examines the principles and procedures of managerial accounting. Topics include cost-volume-profit analysis, budgeting, standard costing, responsibility accounting, and quantitative techniques. Prerequisite: AC 221 with minimum grade of 'C.' (3)

AC 321. Intermediate Accounting I.

Financial statements of a business enterprise with an emphasis on classification and determination of the contents and values of accounts. Prerequisite: AC 222 with minimum grade of 'C.' (3)

AC 330. Accounting Information Systems.

Analysis of the role of accounting information systems within an organization operating environment and the computer's effects on these systems. Prerequisites: AC 222 with minimum grade of 'C'; IS 175 or MI 375 with minimum grade of 'C.' (3)

AC 331. Cost/Managerial Accounting.

General principles, job order, process and standard costs. Prerequisite: AC 222 with minimum grade of 'C.' (3)

AC 332. Intermediate Accounting II.

Financial accounting theory and procedures concerning long-term liabilities, stockholder's equity, revenue recognition and statement of cash flows. Prerequisite: AC 321 with minimum grade of 'C.' (3)

AC 339. Managerial Accounting.

Analysis and interpretation of management accounting planning, controlling and decision-making. Prerequisite: AC 222 with minimum grade of 'C.' (3)

AC 375. Financial Statement Analysis.

Examines the primary financial statements. Topics include user objectives, an overview of analytical tools and techniques, and qualitative vs. quantitative judgments. Prerequisite: FI 361 with minimum grade of 'C.' (3)

AC 435. Income Tax Accounting.

Federal tax accounting. Emphasis on current laws, rules and regulations, particularly relating to individuals. Prerequisite: AC 222 with minimum grade of 'C'; junior standing. (3)

AC 437. Auditing.

Auditing theory, procedures and practices. Prerequisite: 18 hours accounting with minimum grade of 'C' or consent of department. (3)

AC 473. Internship in Accounting.

A supervised learning and work experience in professional accounting which enhances accounting courses taken on campus. On demand. (3)

AC 481-483. Problems in Accounting.

Directed study of special problems in accounting through seminars, workshops, forums, etc. On demand. (1-3)

AC 491-493. Independent Study in Accounting.

Intensive study of special problems related to accounting. Prerequisite: Consent of department. On demand. (1-3)

AC 531. Strategic Cost/Managerial Accounting.

Cost/managerial accounting procedures emphasizing cost allocation methods, cost control, regression analysis, decision models, and operations research. Prerequisite: AC 331 with minimum grade of 'C.' (3)

AC 540. International Perspectives of Accounting.

An examination of accounting rules and practices of multinational enterprises throughout the world with special emphasis on harmonization, standardization, and disclosure requirements. Prerequisites: AC 222 with minimum grade of 'C'; senior standing. (3)

AC 545. Advanced Income Tax Accounting.

The examination and application of federal income tax theory and methods with emphasis on partnership, corporation and fiduciary problems. Prerequisite: AC 435 with minimum grade of 'C'. On demand. (3)

AC 548. Governmental and Not-for-Profit Accounting.

An introduction to the accounting principles and reporting practices of governments and not-for-profit organizations. Prerequisites: AC 222 with minimum grade of 'C' and Senior standing. (3)
See University Studies (UI) listings for description of:
UI 316. **Contemporary Legal Studies.** (3)

Administrative Services (AD)

AD 101. Introduction to Microcomputer Applications.

Fundamentals of an integrated business applications program in a networked Windows environment. For students with no Windows/applications experience. Prerequisite: Keyboarding recommended. (3)

AD 195. Integrating Academics into Vocational Curricula.

Development of vocational curricular materials designed to integrate academics into vocational subjects. Prerequisite: Missouri Vocational Certification or consent of instructor. (2)

AD 222. Microcomputer Applications for Business.

Using the microcomputer to perform business applications using word processing, web page, page design, spreadsheet, database, and presentation software. Prerequisite: AD 101 with a minimum grade of 'C.' (3)

AD 224. Transcription Skills.

Develop skills in machine transcription with emphasis on mailable documents. Includes specialized transcription for legal offices. Prerequisite: AD 101 or equivalent. (3)

AD 323. Administrative Information Systems.

An overview of information systems including major technologies that support information creation, storage, retrieval, manipulation, and distribution. Prerequisite: AD 222 with a minimum grade of 'C'. (3)

AD 331. Advanced Word Processing.

Refinement of word processing production, straight copy, and accuracy skills. Prerequisite: AD 101 with a minimum grade of 'C'. (3)

AD 337. Administrative Systems Management Internship.

Training and work experience in an approved administrative services position, supervised by a departmental representative. Prerequisites: Cum GPA of 2.75; 12 hours of AD prefix courses. (3)

AD 339. Network Support Systems.

A technical overview of local area network (LAN) systems including a theoretical framework and hands-on experience with networking technology. Prerequisite: AD 101. (3)

AD 341. Information Systems Procedures.

Integration of specialized procedures to manage information support systems. Prerequisite: AD 331. (3)

AD 353. Administrative Systems Management.

Organization and management of administrative information systems with emphasis on the skills, knowledge and role of the administrative systems manager. (3)

AD 422. Training in Administrative Systems.

Application of instructional development for the education and training of employees in administrative systems. Prerequisites: AD 222 with minimum grade of 'C'; junior standing. (3)

AD 491-493. Independent Study in Administrative Services.

Intensive study of special problems related to Business Education and Administrative Systems Management. Prerequisite: Department approval. (1-3)
See University Studies (UI) listings for description of:
UI 301. **Managerial Communication Processes.** (3)

Aerospace Studies (AS)

AS 100 Foundation of the USAF I.

A survey course designed to introduce students to the U.S. Air Force and Air Force Reserve Officer Training Corps. Featured topics include missions and organization of the Air Force, military customs and courtesies, officership and professionalism, and officer careers. Corequisite: AS 199. (1)

AS 101. Foundation of the USAF II.

A continuation of topics taught in AS 100 plus topics in communication skills, military history, organizational/chain of command, and group leadership problems. Corequisite: AS 199. (1)

AS 199. Leadership Laboratory.

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Training laboratory concurrent with AS 100 and AS 101. Teaches basic drill, ceremonies, and Air Force standards. (0)

AS 200. USAF Air & Space Power I.

A survey course designed to facilitate the transition from ROTC cadet to ROTC candidate. Featured topics include continuing application of communication skills, AF heritage and leaders, and group leadership problems. Corequisite: AS 299. (1)

AS 201. USAF Air & Space Power II.

A continuation of topics taught in AS 200 plus topics in ethics and values, introduction to leadership, quality fundamentals and group leadership problems. Corequisite: AS 299. (1)

AS 203. AFROTC Field Training.

Five-week summer officer training program on an Air Force base for selected students designated for AFROTC Professional Officer Course. (4)

AS 299. Leadership Laboratory.

Training laboratory concurrent with AS 200 and AS 201. Emphasizes drill and ceremonies; provides preparation for Field Training and applied leadership experiences discusses in class. (0)

AS 300. AF Leadership Studies I.

A study of leadership and quality management fundamentals, professional knowledge, leadership ethics, and communication skills required of an Air Force officer. Corequisite: AS 399. (3)

AS 301. AF Leadership Studies II.

A continuation of the topics taught in AS 300 plus officership values, standards of conduct, principles of war and case studies as a means of demonstrating and exercising practical application of the concepts being studied. Corequisite: AS 399. (3)

AS 399. Leadership Laboratory.

Training laboratory concurrent with AS 300 and AS 301. Provides advanced leadership experiences in officer-type activities, giving students the opportunity to apply leadership and management principles of the course. (0)

AS 400. National Security Affairs.

A study of the national security process, regional studies, Air Force doctrine, civilian control of the military, military operations, joint operations, communication skills. Corequisite: AS 499. (3)

AS 401. Preparation for Active Duty.

A continuation of the topic taught in AS 400 plus topics in advanced leadership ethics, the military as a profession, officership, military justice and current issues affecting military professionalism. Corequisite: AS 499. (3)

AS 499. Leadership Laboratory.

Training laboratory concurrent with AS 400 and AS 401. Provides advanced leadership experience with an orientation for initial commissioned service. (0)

Agriculture (AG)

AG 201. World Food and Society.

Food production and distribution for the advancement of societies in developed and developing countries. (University Studies course) (3)

AG 230. Agricultural Power and Machinery.

Principles of gasoline and diesel-engine operation, fuels, and electrical systems. Selection, operation and management of agricultural machinery. Two lectures; two-hour lab. (3)

AG 245. Agricultural Economics.

Economic principles and policies related to agriculture production and the food sector of the US economy. (3)

AG 250. Agribusiness Management.

The role, organization, and basis for making economical and financial decisions within agribusiness. (3)

AG 290. Economic Entomology.

Scientific principles and integrated pest management practices associated with control of insects and related pests. Two lectures; Onehour lab. (3)

AG 330. Crop Drying and Conditioning.

A study of quality control for stored crops, equipment and facilities, and principles of crop drying and conditioning. (3)

AG 331. Agricultural Structural Systems.

Farmstead and building planning. Materials, sanitation, ventilation and convenience. Two lectures; two-hour lab. (3)

AG 333. Agricultural Law.

Study of statutes, cases and administrative regulations of agricultural concern. Application of laws significant to business and operations of producers. (3)

AG 334. Agribusiness Finance.

Study of the acquisition and use of capital for farm and other agribusiness firms, including financial decision-making, risk management, and capital budgeting. Examination of the financial intermediaries serving agriculture. Prerequisites: AC 221, MA 223. (3)

AG 355. Agriculture Seminar.

Literature review, presentation, and discussion of topics related to current agricultural issues, recent advancements in agricultural research, and student-interest items related to professional development. Prerequisite: Junior standing. (1)

AG 371-373. Topics in Agriculture.

Special topics in agriculture typically unavailable in the departmental curriculum such as precision agriculture, clay mineralogy or forest soils. (1-3)

AG 433. Agricultural and Food Policy.

The U.S. policy process as it relates to food and agricultural issues. Analysis of domestic farm, food, and resource policy as well as international trade and market development issues. Prerequisites: AG 245 or EC 215, and EC 225. (3)

AG 447. Marketing Agricultural Products.

Emphasis is placed on alternatives in marketing products and problems which may be encountered. Managing risk using the futures market is also emphasized. Prerequisites: AG 245 or EC 215; EC 225. (3)

AG 450. Agricultural Management.

Application and budgeting procedures and planning techniques to analyze/compare the economic investments in modern farming systems and evaluate economic consequences of major adjustments. Two lectures; two-hour lab. Prerequisites: AG 245 or EC 215 and EC 225. (3)

AG 461-462 Independent Study in Agriculture.

Directed individual study of special interest areas in agriculture. Prerequisite: 75 hours completed; 2.5 cumulative GPA or 2.75 in major; minimum of 10 hours in discipline to be studied; consent of department chairperson and college dean. (1-2)

AG 465-466. Agriculture Internship.

Cooperative program between the department and an organization (employer) that furnishes facilities and instruction where students acquire additional knowledge and skills. AG 465 and AG 466 may be repeated for a maximum of 12 hours credit. Prerequisite: Consent of internship advisor. (3-6)

AG 469. Undergraduate Research.

Supervised individual research on a problem of interest to the student. A report is required. May be taken more than once. (3)

AG 470. Agribusiness Sales.

The sales sequence and skills needed to build professional relationships. (3)

AG 551. Water Management.

Soil, water and plant relationships. Design and layout of farm drainage and irrigation systems. (3)

Agronomy (AO)

AO 120/020. Plant Science.

Scientific principles and practices used in producing, handling, processing, marketing and utilizing agronomic and horticultural plants. Three lectures (AO 120) and two-hour lab (AO 020) must be taken concurrently. (4)

AO 215/015. Soils.

Origin, classification, and physical, chemical and biological properties in relation to farm practices. Two lectures (AO 215) must be taken concurrently with two-hour lab (AO 015). Prerequisite: CH 181/001/081 or CH 185/005/085. (3)

AO 230. Principles of Grain Crop Production.

The principles of cereal and oil seed production, with particular attention to wheat, grain sorghum, corn, and soybeans. Prerequisite: AO 120/020 or BO 200. (3)

AO 260/060. Integrated Pest Management.

Integration of pest-control methods to improve control, decrease costs and minimize environmental impact. Prerequisite: AO 120/020 or BO 200. (3)

AO 321. Cotton and Rice Culture.

The production and marketing principles governing the growth and development of cotton and rice crops. Prerequisite: AO 120/020 or BO 200. (3)

AO 322. Weed Science.

Identification, dissemination, ecology and control of weeds. Techniques of herbicide application, types of herbicides and herbicidal action. Two lectures; two-hour lab. Prerequisites: AO 120/020; CH 181/001/081 or CH 185/005/085. (3)

AO 323. Plant Pathology.

Microbiological principles and cultural practices associated with diseases in plant production. Two lectures. Prerequisite: BI 200. (2)

AO 325. Agrichemical Management.

The study of the chemical and physical properties, usage, legal attributes, and health risks of agricultural chemicals. Two lectures. Prerequisites: AG 290, CH 234. (2)

AO 341 (Cross-listed as HO 341). Vegetable Production.

The fundamental principles involved in the production of vegetable crops for wholesale or retail markets. Vegetable production in home gardens is also studied. Two hours lecture; two-hour lab. Prerequisite: AO 120/020 or BO 200. (3)

AO 420. Crop Physiology.

Study of the physiological processes underlying crop growth and production. Three lectures. Prerequisites: AO 120; AO 215; MA 134. (3)

AO 427. Soil Fertility and Plant Nutrition.

Fundamentals and concepts of soil fertility and its evaluation related to soil management, plant nutrition and maintenance. Two lectures; two-hour lab. Prerequisites: AO 215/015; CH 181/001/081 or CH 185/005/085. (3)

AO 430 (Cross-listed as HO 430). Landscape and Turfgrass Management.

Establishing and maintaining plantings on athletic fields, golf courses, parks, lawns, and commercial grounds. Three lectures; two-hour lab. Prerequisite: AO 120/020 or BO 200. (4)

AO 550. Soil Conservation.

Principles and practices associated with the conservation of soilscapes and the control of accelerated erosion. Three lectures. Prerequisites: MA 134; AO 215 or GO 110 or BI 332. (3)

AO 555 (Cross-listed as GO 555). Soil Classification and Resource Management.

Classification of soils in terms of their physical, chemical and mineralogical composition. Interpretation of soils in terms of proper land use, with special attention to soil erosion. Two lectures; two-hour lab. Prerequisites: AO 215/015 or GO 110; CH 181/001/081 or CH 185/005/085. (3)

Animal Science (AY)

AY 101/001. Animal Science.

Development and fundamentals of livestock industry. Types of breeds, genetics, physiology, nutrition and products of cattle, sheep, horses, poultry and swine. Four lectures (AY 101) and two-hour lab (AY 001) must be taken concurrently. (5)

AY 204. Animal Nutrition.

Principles of animal nutrition and their application. Two lectures; two-hour lab. Prerequisites: AY 101/001; CH 181/001/081 or CH 185/005/085. (3)

AY 205. Horse Science.

Feeding and management practices in horse care and production. Two lectures; two-hour lab. (3)

AY 304. Principles of Animal Nutrition.

General introduction and history of nutrition for animals and man; general functions, deficiencies and toxicities of the six classes of nutrients (water, protein, carbohydrates, lipids, minerals and vitamins); general digestion, absorption, utilization and excretion of these classes of nutrients in cattle, sheep, swine and horses. Two lectures; two-hour lab. Prerequisites: AY 101/001. (3)

AY 305. Advanced Horse Science.

Advanced management practices in horse care, feeding, and reproduction. Two lectures; two-hour lab. (3)

AY 311. Animal Breeding.

The application of principles of animal genetics and reproduction for the improvement of farm animals. Two lectures; two-hour lab. Prerequisite: AY 101/001. (3)

AY 405. Beef Production.

Breeding, feeding, and management of purebred and commercial cattle. Two lectures; two-hour lab. Prerequisite: AY 204 or AY 304. (3)

AY 406. Swine Production.

Breeding, feeding and management of commercial and purebred swine. Prerequisite: AY 204 or AY 304. (3)

AY 408. Dairy Production.

Breeding, feeding and management of dairy cattle and the marketing of dairy products. Two lectures; two-hour lab. Prerequisite: AY 204 or AY 304. (3)

AY 410. Principles of Meat Science.

The basic principles of Meat Science as applied to meat-producing species; the meat industry and the retail and

institutional purchasing of meat. Two lectures; two-hour lab. (3)

Anthropology (AI, AN)

AI 496. Anthropology Internship.

Internship with a public or private agency providing first hand experience in the application of anthropological skills. Prerequisites: 24 hours of AN courses; AN 493; SO 490. (6)

AN 100. Foundations of Human Behavior: Sex and Aggression.

Examines biological and cultural foundations of sex and aggression, with an emphasis on critical examination of the popular media. (University Studies course) (3)

AN 101. Observing Other Cultures.

Trains students in basic scientific methods of observing cultural and social behavior. Provides foundation for anthropological study of culture. (University Studies course) (3)

AN 180. Introductory Anthropology: Physical Anthropology and Archaeology.

Human physical and cultural evolution, biological evidence of fossil humans, origins of social life, origins of stone tools, agriculture and cities. (3)

AN 181. Introduction to Cultural Anthropology.

Worldwide survey of family and marriage, arts, languages and religions. Why cultures and their people differ. (3)

AN 241. Introduction to Linguistic Anthropology.

Explores the origin and development of human language, and the relationship of language to other aspects of culture. Prerequisite: AN 181 or consent of instructor. (3)

AN 242. (Cross-listed as SO 242.) Statistics for Social Scientists.

Basic descriptive statistics in social science. Central tendency, dispersion, contingency, correlation, regression. Inferential statistics, parametric and nonparametric. (3)

AN 250. World Archaeology.

Humankind before recorded history, cultures from stone age to civilization in China, India, Africa, Egypt, Mesopotamia, Mexico and Peru. Prerequisite: AN 180 or AN 181 or consent of instructor. (3)

AN 260. World Cultures.

Ecology and evolution of human cultures from Africa, Asia, South America, South Pacific, typical life in each area, uniqueness of cultures. Prerequisite: AN 180 or AN 181 or consent of instructor. (3)

AN 280. Economic Anthropology.

Economic activities of traditional and nonWestern societies; economic behavior; and political, social and religious life. Prerequisite: AN 180 or AN 181 or consent of instructor. (3)

AN 311-313. Archaeological Fieldwork.

On-location study of different, excavation methods and techniques for recovery of archaeological artifacts. Students will practice the use of field and laboratory equipment. Prerequisite: An 180 or consent of instructor. (1-3)

AN 317. Ethnographic Field Methods.

An overview of the qualitative methods of studying culture used by social scientists. Students practice using these methods in real life situations. Prerequisite: AN 181. (3)

AN 319. Archaeology Laboratory.

Students will learn basic laboratory techniques and procedures used in the identification, preservation, and analysis of various types of prehistoric artifacts. Prerequisite: AN 180 or consent of instructor. (3)

AN 321. Midwestern Archaeology.

Traces the prehistory of Missouri from earliest mankind in the Ice Age to the arrival of the first Europeans. Examines types and varieties of artifacts that can be found in Missouri and what they explain about prehistoric life. Prerequisite: AN 180 or AN 250. (3)

AN 331-333. Applied Anthropology.

On-location application of the anthropological perspective, including ethnographic techniques of systematic participant observation, ethnographic interviewing, unobtrusive and naturalistic observations, language learning and analysis. Data analysis and write-up and applied (public) uses of ethnographic research. Prerequisite: AN 101 or AN 181 or consent of instructor. (1-3)

AN 345. (Cross-listed as SO 345.) Methods of Social Research.

Survey research methods. Observational, nonintrusive methods, and experimental design. Formulate problems, select appropriate method, analyze results and present findings. Prerequisites: SO 240 or AN/SO 242. (3)

AN 346. (Cross-listed as SO 346.) Applied Social Research.

Trains students to apply the most common quantitative and qualitative social research methods. Includes planning, managing, and presenting research. Prerequisite: AN/SO 345. (3)

AN 355. Special Topics in Anthropology.

Explores recent scientific developments and topics of current popular interest or of a specialized nature in prehistory, public archaeology, archaeological methods and techniques. Prerequisite: AN 180 or AN 250. (3)

AN 360. Meso-American Civilizations.

Study of Aztec, Maya and other important Meso-American civilizations and cultures before and after European contact. Prerequisite: AN 180 or AN 181 or consent of instructor. (3)

AN 380. Human Evolution and Adaptation.

Biological origins of humans, anatomy of earlier humans, relationship between apes and humans, racial variation, genetic and physical adaptation. Prerequisite: AN 180 or AN 181 or consent of instructor. (3)

AN 381. North American Archaeology.

Origin and development of Indian cultures before recorded history, earliest migration into new world, European contact. Uses archaeological techniques. (3)

AN 382. Archaeology: Method and Theory.

A general introduction to the theories, methods, and practice of archaeology. Prerequisite: Junior standing. (3)

AN 383. Cultures of the Third World.

Examines the traditional lifestyles, religions, families, economics and politics of Third World peoples and how they affect and are affected by larger world community. Prerequisite: AN 181 or AN 260. (3)

AN 385. Indians of North America.

Prehistoric Indian culture through settlement and expansion of American frontier. Indian lifestyles today. Prerequisite: AN 180 or AN 181 or consent of instructor. (3)

AN 387-389. Independent Study in Anthropology.

Directed individual study of special interest areas. (1-3)

AN 390. European Prehistory.

Ancient Europe, development of pagan cultures, roots of classical civilizations, influences of near East on prehistoric Europe. (3)

AN 493. General Anthropology Theory.

Traces the development of anthropological theory and examines the effect of anthropological theories on other academic fields. (3)

AN 495. (Cross-listed as SO 495.) Senior Seminar.

Students will research and analyze an issue of anthropological concern, with emphasis on bringing together theory and method. (3)

AN 540. Cultural Resource Management.

Examines cultural resource proposal writing, budgeting, project design and field/laboratory strategies, as well as governmental policies, laws and review. Prerequisites: Junior standing; consent of instructor. (3)

AN 550. Historic Archaeology.

Intensive examination of major issues in the development of historical archaeology, theoretical and methodological issues, and major areas of research. Prerequisites: Junior standing; major in archaeology, history, or historic preservation. (3)

AN 551. Historic Archaeology Field School.

Historic archeological survey and excavation; intensive instruction in recovery and documentation of cultural remains; public interpretation of an excavation; practice in archival research. Prerequisite: Junior standing or consent of instructor. (6)

*Art(AR)***AR 001. Freshman Core Review.**

Art majors pursuing the BA degree, the BFA degree, or the BS in Education degree must pass the foundation review after completion of the 21 credit hour foundation program (AH 110, AH 210, AR 100, AR 104, AR 106, AR 201, AR 202) and before taking upper level or advanced art courses. Core review should be completed before the end of the sophomore year. See advisor for details. No credit.

AR 100. Drawing I.

A foundation in objective drawing skills including proportional and spatial accuracy, perspective, line, value and light and shade and formal logic and composition.

Drawing is the essential vehicle for visual invention and the creative process. (3)

AR 104. Design Foundations.

Theory and application of the elements and principles of design with emphasis on black and white. (3)

AR 106. Three-D Foundations.

Core course required for students majoring in art in Art Education, 2-D, 3-D, Graphic Design and the B.F.A. It explores height, width, depth, volume and gravity in three-dimensional form. Basic techniques and media are used as a foundation for development of ideas and implementation in mid-level and advanced 3-D problems. Sculpture, ceramics, and fibers are built upon this course. (3)

AR 108. Drawing In Society.

A course combining studio drawing with the study of how art incorporates and communicates the experiences and values of society. No credit toward BFA major. (University Studies course) (3)

AR 109. Practical Design and Color.

A studio course for non-art majors which places emphasis upon investigation of the elements of design, particularly form, color, and texture. (3)

AR 111. Ceramics: A Metaphor For Understanding Human Experience.

Ceramic design, form and functions will be explored to gain an enhanced understanding of human experience through the ages. No credit toward BFA major. (University Studies course) (3)

AR 112. Perspectives in Art.

Understanding the role of contemporary and historical art in enriching the human experience. No credit toward BFA major. (University Studies course) (3)

AR 201. Color Composition.

Theory and application of color as it applies to two-dimensional art. Prerequisite: AR 104 or AR 109. (3)

AR 202. Drawing II: Human Figure.

Problems in drawing with emphasis on the human figure. Prerequisite: AR 100. May be repeated for additional credit. (3)

AR 207. Practical Drawing.

A basic drawing course for individuals requiring drawing and visualization skills for their professions. (3)

AR 208. Introduction to Graphic Design.

An introductory study of the principles and practices of graphic design, layout and typography as used in contemporary media. Fall only. Prerequisites: AR 001 or consent of instructor. (3)

AR 209. Lettering, Typography and Desktop Publishing.

An introduction to letter form and typography as they relate to typographic design, both historically and in the computer environment. Spring only. Prerequisites: AR 001; AR 104; AR 208; or consent of instructor. (3)

AR 270. Art for the Elementary Teacher.

A study of the child's creative art growth in early childhood, upper elementary and middle school levels. Also an examination and development of relevant and effective art education programs. (3)

AR 302. Printmaking.

Relief, intaglio and lithographic processes for the beginning printmaker. Prerequisites: AR 001. May be repeated for additional credit. (3)

AR 303. Screenprinting.

An introduction to basic screenprinting techniques and the production of editions. Prerequisites: AR 001 or consent of instructor. May be repeated for additional credit. (3)

AR 306. Advertising Illustration.

An advanced study in techniques and methods of producing illustrations in the field of advertising art. Prerequisites: AR 001; AR 208; AR 209. Fall only. (3)

AR 308. Publication Design.

An advanced study of layout and design procedures for the visual designer with emphasis upon portfolio development. Prerequisite: AR 001; AR 208; AR 209. May be repeated for additional credit. Spring only. (3)

AR 309. Advertising Illustration II.

The advanced study of contemporary techniques and methods for producing illustrations. Prerequisite: AR 306. Spring only. (3)

AR 313. New Genre.

An introduction to new types of 3-D design: performance; community art; video; multimedia; installations; sound; and other non-traditional "in the round" art forms and issues. Students will gain a welldeveloped background in current contemporary art issues and an understanding of how performance and New Genre draws from Sculpture, Painting, Theatre, Dance Music and Society. Prerequisite: AR 001. (3)

AR 314. Drawing III: Advanced Problems.

Problems in drawing with emphasis on advanced applications of basic drawing skills and strategies. May be repeated for additional credit. Prerequisite: AR 001. (3)

AR 315. Three Dimensional Design.

Fundamental exploration of the elements and principles of design as they relate to three dimensional form. Prerequisite: AR 001; AR 104. (3)

AR 316. Advanced Graphic Design.

An advanced study of the concepts and production techniques of graphic design. Prerequisite: AR 001; AR 208; AR 209. May be repeated for additional credit. Fall only. (3)

AR 318. Graphic Design Internship.

Professional design experience in an appropriate work setting. Prerequisites: AR 001; AR 208; AR 209; AR 308; AR 316. (3)

AR 320. Watercolor I.

A beginning course in the use of transparent watercolor. Prerequisite: AR 001; AR 100. (3)

AR 325. Painting.

A beginning study of basic techniques and use of oil or polymer paints with emphasis upon contemporary styles. Prerequisites: AR 001; AR 100; AR 201. (3)

AR 330. Fibers I.

A fibers survey including weaving, floorloom weaving, dyeing processes, and/or fiber sculpture. Prerequisite: AR 001 or consent of instructor. (3)

AR 332. Sculpture I.

A study in three-dimensional design. Various materials will be explored in a working experience of form, space, color, texture, line and shape. Prerequisite: AR 001 or consent of instructor. (3)

AR 342. Ceramics I.

A beginning course in ceramic design with emphasis upon hand-built construction and glazing processes. Prerequisite: AR 001 or consent of instructor. (3)

AR 352. Museum Internship in Art.

The internship may be taken for three (3) credit hours or 120 work hours and may be repeated for a maximum of 9 hours. Prerequisite: AR 001. (3)

AR 370-372. Independent Study in Art.

Directed individual study to further develop previously learned processes. Prerequisite: AR 001; AR 302 or AR

303; AR 313; AR 314; AR 325; AR 330; AR 332; AR 342. (1-3)

AR 375. Art & New Technology.

An introductory course covering photographic progression, multi-image projections, large-scale computer prints, video, sounds, kinetic art, and basic computer applications. Students will be introduced to Adobe Photoshop, Lightwave 3-D and Final Cut Pro for Video Editing, as well as other scanning and image manipulation software. Required for 3-D animation majors. May be repeated for additional credit. (3)

AR 376. 3-D Digital Animation.

An introductory course to the study of 3-D animation on the Macintosh computer. Emphasis will be on the more advanced use of 3-D modeling, scanning and images manipulation in creative animated sequences. May be repeated for additional credit. Prerequisite: AR 375. (3)

AR 421. Watercolor II.

Advanced watercolor techniques and mixed media covered. May be repeated for additional credit. Prerequisite: AR 001; AR 320. (3)

AR 426. Advanced Painting.

An advanced exploration of painting media. Prerequisites: AR 001; AR 325. May be repeated for additional credit. Spring only. (3)

AR 431. Sculpture II.

An in-depth exploration of carving, modeling, constructing and casting techniques. Prerequisites: AR 001; AR 332. May be repeated for additional credit. (3)

AR 441. Ceramics II.

An intermediate course in ceramics with emphasis upon wheel throwing, glaze formulation and kiln firing. Prerequisites: AR 001; AR 342 or consent of instructor. May be repeated for additional credit. (3)

AR 450. Senior Exhibition/Senior Portfolio.

Preparation and practical career guidance in the visual arts for the graphic designer. Students prepare a portfolio and resume and investigate the art/job market. Taken in fall semester prior to graduation. Required on BFA Graphic Design emphasis. Prerequisite: AR 001. Fall semester only. (2)

AR 501. Intaglio Printmaking.

A course in intaglio processes and edition printing. Prerequisite: AR 001; AR 302. (3)

AR 502. Lithography Printmaking.

A course in the techniques of lithography and the development of personal expression. Prerequisite: AR 001. (3)

AR 520. Figure Painting.

Painting from the human figure with emphasis upon composition, human structure and techniques. Prerequisites: AR 001; AR 202; AR 325. May be repeated for additional credit. (3)

AR 525. Studio Process.

Experimentation in specialized and advanced art media in intensive studio formats. Specific objectives and content will change depending on emphasis. Prerequisite: AR 001. (2)

AR 530. Fibers II.

Further exploration of fiber media including weaving and/or surface design and fiber sculpture. Prerequisites: AR 001; AR 330. May be repeated for additional credit. (3)

AR 541. Ceramics III.

An advanced course designed to develop competency in ceramic art processes. May be repeated for additional credit. Prerequisites: AR 001; AR 441 or equivalent experience. (3)

Art History (AH)

AH 100. Ancient Egypt.

A study of the development of the ancient Egyptian civilization, its culture, art, politics, religious beliefs and hieroglyphic language. (University Studies course) (3)

AH 110. Art History Survey I.

A study of painting, sculpture and architecture from prehistoric times through the Gothic Age. Fall only. (3)

AH 210. Art History Survey II.

A continuation of Art History Survey I from the Renaissance to the contemporary era. Spring only. (3)

AH 310. Classical Art.

History of Ancient art with emphasis upon Greek and Roman art. (3)

AH 311. Modern Art.

History of major developments in the art of the 19th and early 20th centuries. (3)

AH 312. Renaissance Art.

Study of Italian art history from the late middle ages to the High Renaissance and Maniera. (3)

AH 400. Seminar: Readings in Art.

Exploration of the theoretical basis of artists and their work. Major emphasis upon 1800 to the present. Prerequisite: AH 311. (3)

AH 510. Non-Western Art.

Survey of historical and contemporary culture in Central Africa, India, Japan, China, the Middle East and Meso-America. (3)

AH 511. American Art.

Study of the major contributions of artists living in the U.S. from the time of the Native Americans to the present. (3)

AH 512. Issues in Contemporary Art & Culture.

Movements in painting, sculpture and architecture as developed in Europe and America beginning with the Armory Show of 1913 and including present trends. (3)

AH 514. Issues in Renaissance Art.

13th-16th century Italian art and its relationship to the development of political, social and cultural history. (3)

AH 516. Issues in Modern Art.

This course will investigate the development of modernism in western culture as it was reflected in the artistic expression of the time. Influences from a variety of cultures will be explored, as will political, economic and social impacts. (3)

See University Studies (UI) listings for description of; UI 337. **Issues in Twentieth Century Architecture.** (3)

Biological Science (BS)

(Courses with a BS prefix generally do not count on a Biology major or minor.)

BS 103 (Cross-listed as SW 103). Human Biology.

Emphasis on human cell, tissue, and organ system function. Discussions focus on a systems approach to human health and disease. Three lectures. (University Studies course) (3)

BS 105. Environmental Biology.

Discussion of biological principles with application to environmental issues. Two lectures and one discussion/recitation. (University Studies course) (3)

BS 107. Investigations in Biology.

Biological processes will be used to provide experience in scientific investigation and discussion of implications

and limitations. One 2-hour discussion/recitation and one 2-hour lab. (University Studies course) (3)

BS 108. Biology for Living.

To acquaint the students with and help them to understand some of the fundamental biological processes and problems which confront living organisms. Two lectures and one discussion/recitation. (University Studies course) (3)

BS 113/013. Anatomy and Physiology I.

Aspects of anatomy and physiology related to care of the human body. Particular attention given to cells, tissues, digestive system, skeletal system, muscular system and circulatory system. Recommended for nursing students. Two lectures and one 2-hour lab. (3)

BS 114/014. Anatomy and Physiology II.

Second course in sequence. Particular attention is given to the nervous system, urinary system, respiratory system, endocrine system and reproductive system. Recommended for nursing students. Two lectures and one 2-hour lab. Prerequisite: BS 113/013 or consent of instructor. (3)

BS 115. Anatomy and Physiology.

An eight week comprehensive anatomy and physiology course emphasizing the digestive, skeletal, muscular, circulatory, nervous, respiratory, urinary, endocrine and reproductive systems. Six lectures and 8 hours lab. Prerequisite: Admission to Southeast Missouri Hospital Nursing Program or consent of instructor. (5)

BS 118. Introduction to Process Science for Elementary Teachers.

This course will provide elementary teacher candidates with a working knowledge of science, acquisition of scientific knowledge, and the processes of scientific investigation. One 2-hour lab. (1)

BS 218. Biological Science: A Process Approach.

This course applies scientific thought to structure, function, energetics and ecology of living systems. Two lectures and one 2-hour lab. Prerequisites: BS 118; PH 218. (University Studies course) (3)

BS 327. Biology of Aging.

Introduces basic structure and function of the human body; describes aging processes occurring at various levels of biological organization. Three lectures. (3)

BS 332. Human Physiology.

Physiology of the human body. Major emphasis on those body systems which are essential to physical fitness and health care. Two lectures and one 2-hour lab. Pre-

quisites: BS 105 or BS 107 or BS 108 or equivalents (not FN 235). A general chemistry course is strongly recommended. (3)

BS 340. Microorganisms and Their Human Hosts.

Introduction to the anatomy, physiology, cultivation and control of microorganisms, the human immune system, and interactions between humans and microorganisms. Students may not receive credit for both BS 340 and BI 200. Two lectures and one 2-hour lab. Prerequisite: A course in chemistry or in biology or consent of instructor. (3)

Biology (BI)

The major in Biology requires a core specialization of courses to be chosen by the student in consultation with a faculty advisor early in the sophomore year. The three core specializations are microbiology, cellular and molecular (MCM), biomedical sciences (BMS), and organismal, ecological and evolutionary (OEE). Courses with a BS prefix do NOT count on a major or minor.

BI 003. Biology Major Field Assessment.

Required of all biology majors and interdisciplinary studies majors with biology emphasis. Typically taken in final semester of degree program. Prerequisites: Biology major or ID major with Biology emphasis; 106 hours. (0)

BI 190. Life Processes.

Fundamental biological processes, emphasizing bioenergetics, cell function, and heredity, with their applications to ecosystems. Four lectures and one recitation. Prerequisite: One year of high school chemistry. (4)

BI 200. General Microbiology.

An introduction to bacteria, archaeobacteria, eukaryotic microbes, and viruses. A detailed consideration of their structure, metabolism, heredity, diversity, and related laboratory techniques. Two lectures and one 2-hour lab. Prerequisite: BI 190. (3)

BI 225. Research Methods in Biology.

Scientific reasoning and its application to problem solving and discovery in biology, including biological literature searching and electronic information retrieval techniques. Two lectures and one two-hour lab. Prerequisites: BI 190; MA 134. (University Studies course) (3)

BI 261. Introductory Field Biology.

One to two week course involving an introduction to biological field methods. Investigations of ecosystems not normally found within the range of Southeast Missouri. Prerequisite: Interest in and some familiarity with biological systems and consent of instructor. (1)

BI 300. Introduction to Evolutionary Biology.

An introduction to historical biology, incorporating principles of ecology, systematics, biogeography, and basic principles of evolutionary biology. Three lectures. (3)

BI 332. General Ecology.

An introduction to the fundamental principles of ecology. Two lectures and one 2-hour lab. Prerequisites: BI 200; BO 200; ZO 200. (3)

BI 345. Laboratory Methods in Biological Chemistry.

Theory and practice of common biological laboratory methods: solution preparation, spectrophotometry, electrophoresis, DNA manipulations, and biological, chemical, and radiological safety. One lecture and two 2-hour labs. Prerequisites: BI 200; CH 186; MA 134; or consent of instructor. (3)

BI 381. Genetics. Intermediate-level survey of genetics.

Topics covered include enzymology of gene expression; introduction to gene regulation in prokaryotes and eukaryotes; techniques of DNA manipulation; cytogenetics; quantitative and population genetics. Three lectures. Prerequisite: BI 200; MA 134. (3)

BI 384. Readings in Biology.

Consideration in depth of subject matter ordinarily unavailable in the departmental curriculum through reading and discussion of assigned material. Students are limited to a total of 6 credit hours of readings during their program. Prerequisite: Consent of department chairperson. (1)

BI 404. Cell Biology.

Dynamics of eukaryotic cellular function, molecule targeting, vesicular trafficking, signal transduction and molecular aspects of cell interactions. Two hours lecture and one two-hour lab. Prerequisites: BI 381; CH341/342; or consent of instructor. (3)

BI 414. Current Problems in Cell and Molecular Biology.

In-depth consideration of selected topics of current interest in cellular and molecular biology, with emphasis on problem solving and analysis of primary literature.

Three hours lecture and one hour recitation. Prerequisite: BI 404. (3)

BI 420. Management of Wildlife Populations.

Introduction to theoretical principles and empirical bases for population management of wildlife, and application of these principles. Basic concepts of population dynamics, estimation of population parameters, and population management. Examples emphasize North American species. Three lectures. Prerequisites: BI 200; BI225; BO 200; ZO 200; or equivalents. (3)

BI 430. Management of Wildlife Habitat.

Principles and practices of habitat management for wildlife in North America. Two lectures and one 2-hour lab. Prerequisites: BI 200; BI 225; BO 200; ZO 200. (3)

BI 432. Advanced Ecology.

Study of the evolutionary interactions among organisms and their environments. Evolutionary stable strategies, life history and foraging strategies, population growth, intra- and interspecific interactions. Three lectures. Prerequisite: BI 332. (3)

BI 435. Conservation Biology.

Discussion of ecological principles relating to conservation of biodiversity, with a review of social, political, and economic constraints. Three lectures. Prerequisite: BI 332 or equivalent. (3)

BI 440. Ecology and Management of Wetlands.

General introduction to structure, function, classification, delineation, and biota of wetlands. Emphasis on the application of principles of wetland ecology to wetland management, with particular attention given to wetland types occurring in the Midwest. Two lectures and one 2-hour lab. Prerequisites: BI 200; BI 225; BO 200, ZO 200; or consent of instructor. (3)

BI 441. Virology.

A course to acquaint students with the viruses, prions and viroids of animals, plants and bacteria, emphasizing biochemical characteristics, techniques of study and medical and economical importance. Three lectures. Prerequisites: BI 200; 5 hours of chemistry. (3)

BI 442. Immunology.

Introduction to modern immunology with an emphasis on the underlying biochemical mechanisms. Two lectures and one 2-hour lab. Prerequisite: BI 200 or consent of instructor. (3)

BI 443. (Cross-listed as EV 443) Epidemiology.

Introduction to basic concepts, methods and applications of infectious disease, chronic disease and environ-

mental epidemiology focused on epidemiological reasoning processes. Three lectures. Prerequisites: BI 200; MA 134. (3)

BI 445. Microbial Physiology.

A detailed consideration of prokaryotic structure and function, encompassing morphology, metabolism, genetics and growth. Two lectures and one 2-hour lab. Prerequisites: BI 200; CH 341; CH 342. (3)

BI 450. Molecular Biology Investigations.

Gene cloning and analysis in an independent, investigative environment. DNA library screening, primer/probe design, cloning, sequencing, sequence analysis. One 1-hour lecture, 4 hours lab. Prerequisites: BI 200; CH 341; CH 342; Pre or Corequisite: BI 381. (3)

BI 452. Limnology.

A comparative approach to the ecological study of freshwater systems, including the chemical, physical, and biological components of springs, streams, impoundments, and swamps. One lecture and two 2-hour labs. Prerequisites: BO 200; CH 185; ZO 200. (3)

BI 453 (Cross-listed as EV 453). Occupational Health.

Introduction to the factors influencing occupational incidents and the adverse interactions of environmental and occupational chemical/physical agents with humans. Prerequisites: Junior standing; CH 181 or CH 185; completion of Living Systems (BI or BS) category of University Studies. (3)

BI 454 (Cross-listed as EV 454). Risk Assessment Applications.

Introduction to concepts, terminology, methods, and applications of qualitative and quantitative health and ecological risk assessment and risk communication. Prerequisites: Junior standing; CH 181 or CH 185; MA 134; completion of Living Systems (BI or BS) category of University Studies. (3)

BI 455 (Cross-listed as EV 455). Industrial Hygiene.

The study of chemical and physical hazards in the occupational environment and the methods used for their evaluation and control. Prerequisites: Junior standing; BI 200; CH 186; MA 134. (3)

BI 460 (Cross-listed as EV 460). Introduction to Toxicology.

Introduction to the fundamental principles of toxicology, toxic agents, toxicity testing, mechanisms of toxic-

ity, toxic effects, sources of exposure, and applications of toxicology. Prerequisites: Junior standing; BI 200; ZO 200; CH 186. (3)

BI 469. Wildlife Toxicology.

Introduction to the principles of environmental toxicology and discussion of the literature on biological effects of environmental toxicants on terrestrial vertebrate wildlife species. Three lectures. Prerequisites: CH 185; ZO 200; or equivalent. (3)

BI 471-473. Internship in Biology.

A supervised learning and work experience in biology which enhances the student's understanding of and appreciation for the application of biological knowledge and skills. Prerequisites: 45 hours with 2.5 GPA; 16 hours in biology; internship must be related to major; consent of instructor and department chairman. (1-3)

BI 479. Introduction to Aquatic Toxicology.

Introduction to the effects of manmade environmental stresses on the biological processes of aquatic organisms. Lectures emphasize recent advances and the laboratory introduces assessment methodology. Two lectures and one 2-hour lab. Prerequisites: 16 hours in biology; CH 181 or CH 185. (3)

BI 485. Topics in Biology.

Consideration in depth of subject matter that is not a part of the established departmental curriculum. On demand. Prerequisites: Junior standing; consent of instructor. (3)

BI 487. Biology Seminar.

Assigned readings, oral presentations and reports designed to allow the integration of basic biological principles into the framework of organismic diversity. One meeting per week. Prerequisites: BI 200; BO 200; ZO 200; senior standing. (1)

BI 493. Readings in Biology.

Consideration in depth of subject matter ordinarily unavailable in the departmental curriculum through reading and discussion of assigned material. Students are limited to a total of 6 credit hours of readings during their program. Prerequisite: Consent of department chairperson. (2)

BI 543. Pathogenic Microbiology.

The study of the epidemiology, pathology, isolation, identification, prevention and treatment of clinically significant bacteria and viruses. Two lectures. Prerequisite: BI 200 or equivalent. (2)

BI 544. Pathogenic Microbiology Laboratory.

Clinically significant bacteria are isolated, identified and studied in theory and practice, with emphasis on the biochemical basis of the procedures. One 2-hour lab. Prerequisite: BI 200 or equivalent. Corequisite: BI 543. (1)

BI 551/553. Biology Field Studies.

A one, two, or three week field course involving the study of ecosystems and habitats not normally within range of Southeast Missouri (e.g. grasslands, deserts, estuarine, and montane systems). Prerequisites: 20 hours of biology, including BO 200 and ZO 200; consent of instructor. (1 or 3)

BI 570. The Development of Instructional Materials for Courses in the Biological Sciences.

Independent study under supervision of a member of the biology faculty. Students design and develop instructional materials for a departmental course. On demand. Prerequisites: Junior standing; consent of instructor; satisfactory completion of the course for which materials will be developed. (1)

BI 589-591. Biological Research.

Investigation of a research project with emphasis on development of controls, evaluation of results and relation to current literature. A summarizing paper may be required. Students are limited to a total of 6 credit hours of research during their program. Prerequisite: Consent of instructor and department chairman. (1-3).

See University Studies (UI) listings for descriptions of:

UI 303. The Female Experience. (3)

UI 317. Human Sexuality. (3)

UI 321. Aids: An Interdisciplinary Perspective (3)

UI 360. Recycling and Waste Management. (3)

UI 406. Transforming the Female Experience. (3)

UI 415. Science and Religion. (3)

Biology Gulf Coast Research Laboratory

These courses are offered during summers at the Gulf Coast Research Laboratory in Ocean Springs, Mississippi, through an affiliation with the Institutions of Higher Learning of the State of Mississippi. Credit is granted by the University. Department of Biology advisors have additional details.

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|--------------------|--|
| BI 352/353 | Marine Science II: Marine Biology (3/2) |
| BI 541/540. | Marine Microbiology. (3/2) |
| BI 559/560. | Coastal Ecology Teacher. (3/1) |

| | |
|--------------------|---|
| BI 571. | Marine Science for Teachers (3) |
| BI 573-578. | Special Topics in Marine Science. (1-6) |
| BI 579/580. | Applications of Biotechnology in Marine Biology. (3/3) |
| BI 593-598. | Special Problems in Marine Science. (1-6) |
| BO 500/505. | Marine Phycology. (2/2) |
| BO 562/561. | Salt Marsh Plant Ecology. (2/2) |
| BO 563/564. | Coastal Vegetation. (2/1) |
| ZO 500/502. | Marine Invertebrate Zoology. (3/3) |
| ZO 510/511. | Comparative Histology of Marine Organisms. (3/3) |
| ZO 541/540. | Parasites of Marine Animals. (3/3) |
| ZO 552/553. | Marine Fisheries Management. (2/2) |
| ZO 554/555. | Marine Aquaculture. (3/3) |
| ZO 559/560. | Marine Mammals. (3/2) |
| ZO 562/561. | Marine Ecology. (3/2) |
| ZO 563/566. | Fauna and Faunistic Ecology of Tidal Marshes, Seagrasses & Sand Beaches. (2/3) |
| ZO 564/574. | Marine Ichthyology. (3/3) |
| ZO 565/567. | Early Life History of Marine Fishes. (2/2) |

Botany (BO)

BO 200. Plant Biology.

Survey of the structure, function, and evolution of those organisms traditionally considered as plants. Two lectures and one 2-hour lab. Prerequisite: BI 190. (3)

BO 361. Systematic Botany.

Plant classification. Identification and relationships of seedbearing plants and ferns. One lecture and two 2-hour labs. Prerequisite: BO 200. (3)

BO 445. Plant Physiology. P

Physiological processes of seed plants with emphasis on metabolism, development, and transport. One lecture, one recitation, one 3-hour lab. Prerequisite: BO 200; pre- or corequisite: CH 341 and CH 342. (3)

BO 461. Native Aquatic Plants.

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Designed to familiarize the students with the algae and aquatic vascular plants found in the area and their habitat relationships. The course is primarily field-oriented. One lecture and two 2-hour labs. Prerequisite: BO 200 or equivalent. (3)

BO 469. Field Botany.

Study of plant communities in a variety of habitats, emphasizing the natural history and field identification of local species. Two 4-hour labs-2nd eight weeks. Pre or corequisite: BO 361 or consent of instructor. (2)

Business Administration (BA)

BA 361. Small Business Management/New Venture Creation.

Emphasis on entrepreneurial opportunities and new-venture processes. Provides an overview of the numerous marketing, managerial, and financial activities needed for successful operation of small business firms. Pre or corequisites: MG 301; MK 301. (3)

BA 363. Small Business/New Venture Financing.

Emphasis on financial problems facing small business and new ventures. Includes business planning, asset management, working capital management, capital budgeting, business valuation, and an examination of funding sources. Pre or corequisites: MG 301; MK 301. Prerequisite: FI 361 with grade of 'C' or better. (3)

BA 458. International Business Internship.

A supervised field experience in international business involving at least 150 supervised contact hours. Prerequisites: Senior standing; International Business major core. (3)

BA 461. Small Business/New Venture Planning and Strategy.

Entrepreneurial venture analysis with primary emphasis on strategic and financial planning for an existing small business/new venture. Prerequisite: BA 363. (3)

BA 463. Small Business/New Venture Internship Project and Business Plan Completion.

A capstone experience in the context of creating a business plan. Prerequisite: BA 461. (3)

BA 490. Business Policy and Strategy.

A capstone course in business focusing on integrated corporate decision making in terms of strategy formula-

tion, implementation, and evaluation. Prerequisites: All Business Core with a minimum grade of 'C' in each course (except required International course); senior standing. (3)

BA 521. Issues in Small Business/Entrepreneurship.

This course focuses upon the critical issues and challenges encountered at different stages in the processes of new venture initiation and growing privately-held companies. Prerequisites: Admission to College of Business or MBA. (3)

BA 560. International Business Study Tour.

Provides a comprehensive theoretical overview of international business, along with an intensive overseas study tour of business and institutions. Prerequisites: MG 301; MK 301. (3)

Business Law (BL)

BL 255. Legal Environment of Business.

Emphasis on the background, importance and role of law in society; contracts, sales, bailments, personal property, landlord/tenant, environmental. Prerequisite: Sophomore standing. (3)

BL 455. Contracts.

Course examines foundations of common law and statutory regulations governing contractual relationships. Prerequisite: BL 255 with minimum grade of 'C'; junior standing. (3)

BL 573. Internship in Business Law.

A supervised learning and work experience in business law which enhances traditional business law courses. On demand. Prerequisites: BL 255 with a minimum grade of 'B'; business major; junior standing; 3.0 cumulative GPA. Pre- or corequisite: BL 455. (1-3)

Chemistry (CH)

CH 180. Chemistry in our World.

The principles governing the systematic behavior of matter, with applications to life and living. One may not receive credit for both CH 180 and CH 181/001/081. Two lectures and three hours of laboratory. Prerequisite: MA 090 or equivalent; completion of high school chemistry is recommended. (University Studies course) (3)

CH 181/001/081. Basic Principles of Chemistry.

A one semester survey of the fundamental principles and systematic behavior of matter. Three lecture hours (CH 181), one recitation hour (CH 001), two lab hours (CH 081) must be taken concurrently. One may not receive credit for both CH 181/001/081 and CH 185/005/085. Pre or corequisite: MA 090 or equivalent. (University Studies course) (5)

CH 185/005/085. General Chemistry I.

A study of atomic structure, chemical bonding, properties of matter and chemical reactions. Initial course in general chemistry sequence. Three lecture hours (CH 185), one recitation hour (CH 005), two lab hours (CH 085) must be taken concurrently. Prerequisite: MA 095 or equivalent. (University Studies course) (5)

CH 186. General Chemistry II.

A continuation of General Chemistry I (CH 185). This is a core course for major and minor programs in chemistry. Three lecture hours. Prerequisite: a grade of 'C' in CH 185/005/085 or 'B' in CH 181/001/081. (3)

CH 187. Qualitative Analysis.

A systematic analysis of inorganic materials, supplemented by experiments relevant to topics covered in CH 185 and CH 186. Four lab hours. Pre or corequisite: CH 186. (2)

CH 234. Organic and Biological Chemistry.

A survey designed for non chemistry majors or minors covering basic organic chemistry and biochemistry. Two lectures and two-hour lab. Spring only. Prerequisite: CH 180 or CH 181/081/001 or consent of instructor. (3)

CH 271. Quantitative Analysis.

Theory and techniques of analytical chemistry. Two lectures and four hour lab. Fall only. Prerequisites: CH 186; CH 187. (4)

CH 310. Introduction to Physical Chemistry.

A one semester survey of the basic concepts of physical chemistry and their application to understanding chemical and physical phenomena. Three lecture plus four lab hours. Credit may not be received for both CH 310 and CH 311. Fall only. Prerequisites: MA 139; CH 271; PH 121/021 or PH 230/030. (5)

CH 311. Physical Chemistry I.

A systematic study of the gaseous state, thermodynamics and thermochemistry, nonelectrolyte solutions, and electrolyte solutions. Four lecture hours. Fall only. Prerequisites: CH 271; PH 121/ 021 or PH 231/031. Pre or Corequisite: MA 240. (4)

CH 312. Physical Chemistry II.

A systematic study of quantum mechanics group theory, chemical bonding, molecular spectroscopy, and chemical kinetics. Three lecture hours. Spring only. Prerequisite: CH 311. (3)

CH 313. Physical Chemistry Laboratory.

Experimental application of principles of physical chemistry in calorimetry, electrochemistry, molecular spectroscopy, chemical kinetics, and study of gases and liquids. Six lab hours. Spring only. Pre or Corequisite: CH 312. (3)

CH 341. Organic Chemistry I.

Fundamentals of aliphatic and aromatic organic chemistry, with an emphasis on reactions of functional groups. Biomolecules are introduced. Four lecture hours. Prerequisite: CH 186 with a grade of 'C' or consent of instructor. (4)

CH 342. Organic Chemistry Lab I.

Acquaints students with basic organic laboratory techniques, such as crystallization, distillation, separations, and chromatography. Thirty lab hours during the semester. Pre or corequisite: CH 341. (1)

CH 343. Organic Chemistry II.

A continuation of Organic Chemistry I focusing on synthesis, mechanisms of reactions, and spectroscopy of organic molecules. Three lecture hours. Prerequisite: CH 341 with consent of instructor. Pre or corequisite: CH 342. (3)

CH 344. Organic Chemistry Lab II.

Students will perform selected organic syntheses and develop skills in semimicro qualitative organic chemistry. Four lab hours. Spring only. Pre or corequisites: CH 343 or consent of instructor. (2)

CH 350. (Cross-listed as EV 350). Environmental Chemistry.

A study of the sources, reactions, transport, and fate of chemical entities in the air, water, and soil environment as well as their effects on human health and the environment. Three lecture hours. Spring only. Prerequisites: CH 234 or CH 343 or consent of instructor. (3)

CH 391-399 Undergraduate Research.

Original research for students with demonstrated superior ability. On demand. Pre or corequisites: UI 443; consent of department. (1-9)

CH 400. Special Topics in Chemistry.

Special topics in chemistry unavailable in the department curriculum such as electrochemistry, nuclear

chemistry, polymer chemistry, industrial chemistry, and surface chemistry. On demand. Prerequisite: Consent of instructor. (1)

CH 401-403. Independent Study in Chemistry.

Directed individual study of problems in chemistry. On demand. Prerequisite: departmental approval of study plan and compliance with university guidelines for independent studies. (1-3)

CH 447. Advanced NMR Techniques.

Advanced NMR techniques applied to structure determination. This course will provide theoretical and hands-on-training of various 1D NMR techniques. Two lecture hours and two lab hours. Prerequisite: CH 344 or consent of instructor. (2)

CH 498. Professional Presentation in Chemistry.

Student presentation of work done as part of experiential learning activities. Credit/No Credit. Prerequisite: UI 443. (1)

CH 531. Biochemistry I.

Structure and function of amino acids, proteins, lipids, and carbohydrates. Generation and utilization of energy. Three lecture hours. Fall only. May be taken as UI 331. Prerequisite: CH 342 or consent of instructor. (3)

CH 532. Biochemistry II.

Metabolism and biosynthesis of amino acids, lipids, and nucleic acids. Transmission and expression of genetic information. Two lecture hours. Spring only. Prerequisite: CH 531 or UI 331. (2)

CH 533. Biochemistry Laboratory.

Laboratory course dealing with selected biochemical techniques. Major areas of study include amino acids, proteins, carbohydrates, lipids, and nucleic acids. Four hour laboratory. Fall only. Pre or corequisite: CH 531 or UI 331. (2)

CH 545. Organic Preparations and Characterization.

Preparation and characterization of organic compounds, including formulation of an organic reaction sequence, developing experimental procedures, and characterizing intermediates and products. One lecture and four lab hours. Fall only. Prerequisite: CH 344 or consent of instructor. (3)

CH 563. Inorganic Chemistry.

A course dealing with theoretical and descriptive inorganic and organo-metallic chemistry. Includes an introduction to inorganic synthesis and characterization.

Three lectures and one 2-hour lab. Spring only. Pre or corequisite: CH 312 or consent of instructor. (4)

CH 565. Inorganic Preparations.

Acquaints students with advanced techniques of inorganic synthesis. On demand. Prerequisite: CH 563. (2)

CH 572. Environmental Estuarine Chemistry.

Offered summer only at the Gulf Coast Research Laboratory in Ocean Springs, Mississippi. Department advisors have additional details. (4)

CH 575. Chemical Instrumentation.

The theory and practice of modern instrumental methods of analysis: molecular and atomic spectroscopy, electrochemical techniques and separation science. Two lecture and four lab hours. Spring only. Pre or corequisite: CH 312 or consent of instructor. (4)

See University Studies (UI) listings for description of: UI 331. **Biochemistry I. Fall only.** (3)

UI 443. **Professional Experience in Chemistry. Spring only.** (3)

Child And Family (CF)

CF 102. Personal and Family Relationships.

Insights into self understanding as related to interactions with others in the framework of dating, marriage and the family. (2)

CF 119. Child Growth and Development.

An introduction to the physical, cognitive and social-emotional characteristics of children from birth through the primary grade years. (Required for Child Development Associate certification) (3)

CF 120. The Child: Development from Conception to Adolescence.

An overview of the social, cognitive, physical and emotional changes that occur from conception to adolescence. Application of principles of development to the understanding of child development and behavior. (Same as PY 120) (University Studies course) (3)

CF 124. Child Health, Safety and Nutrition.

Essentials of health, nutrition, and safety and its application to the well-being of the child from conception through eight years of age. (Required for Child Development Associate certification) (3)

CF 125. Essentials of Preschool Education.

An introduction to professional/preparation for early childhood teachers and care givers, including theories

and practices developmentally appropriate to promote young children's development. (Required for Child Development Associate certification) (3)

CF 126. Facilitating Development in Young Children.

An introduction to early childhood education including programs, theories, and optimal learning environments for young children, birth to six. Prerequisite: CF 120. (3)

CF 200. Guiding Alternatives for Young Children.

Interaction, communication and effective environmental stratagems, along with major trends and acceptable alternatives of guiding young children. Prerequisite: CF 120 or PY 120. (3)

CF 206. Introduction to Gerontology.

Concepts and issues of aging with emphasis on the research, theories, and resources available for the elderly. (3)

CF 207. Eldercare Experiences.

An orientation to the well elderly in our society and their needs involving supervised personal interaction with Eldercare Center participants. One hour seminar and four hours in a supervised laboratory. Prerequisite: CF 206. (3)

CF 208. The Intimate Environment.

An examination of the process of intimacy in a variety of relationships and environments. (3)

CF 210-211. Field Experience in Early Childhood Programs.

Additional contact and work within an early childhood program with children from birth through six years. Prerequisite: CF 120. (2-3)

CF 290. Preschool Participation.

Techniques for planning and implementing a developmentally appropriate program for preschool children that facilitates cognitive, physical, emotional and social growth. Prerequisite: CF 120 or PY 120. Corequisite: CF 291. (2)

CF 291. Preschool Participation Laboratory.

Limited planning and participation in activities and routines with preschool children under supervision of Center for Child Studies staff. Three hours lab. Prerequisite: CF 300.

CF 300. Working With Parents.

Methods for involving parents in the education of young children; techniques for effective communication with parents; and leadership styles that promote positive interactions with parents. Corequisite: CF 301. (2)

CF 301. Working With Parents Laboratory.

Opportunities to work with parents in a supervised setting. Two hours lab. Corequisite: CF 300. (1)

CF 312. Organization and Management of Child Care Centers.

Licensing, staffing, facilities, equipment, and curriculum planning for child care centers. Prerequisite: CF 450/004. (3)

CF 316. Prenatal and Infant Growth and Stimulation.

An in depth study of theory and research regarding developmentally appropriate environments for prenatals and infants from conception to age three. Prerequisites: CF 290; CF 291. Corequisite: CF 317. (2)

CF 317. Prenatal and Infant Growth and Stimulation Laboratory.

Observation and participation with infants. Limited opportunities for planning and implementing activities. Two hours lab. Prerequisites: CF 290; CF 291. Corequisite: CF 316. (1)

CF 400. Family Life Practicum.

A professional field placement in a community service or agency which focuses upon the family. A minimum 120 hour practicum under the direct supervision of a qualified professional in a family service field.

CF 402. Marriage Interactions.

Study of interactions of marriage partners at different stages of marriage with emphasis on developing communication and decisionmaking skills. (3)

CF 403. Child and Family Practicum.

A field experience in which the student is exposed to community service agencies or programs which focus on the child and family. A minimum of 90 hours is required in the practicum under the direct supervision of a professional in a child or family service or agency. Prerequisites: 15 hours of CF courses; CPR certification. (3)

CF 409. School-Age Child Care Programming.

Overview of school-age child care programming. Program models, developmentally appropriate experiences and environments, curriculum implementation, and

administration of programs. Prerequisites: CF 290; CF 291; PY 120. (3)

CF 430. Parent-Child Interaction.

A study of the parent child relationship and the influence the role of parent has upon the growth and development of the child with special focus on differential impact of mothers and fathers. Prerequisites: CF 102; CF 290; CF 120. (3)

CF 450/004. Teaching Young Children, Ages 3-5.

Extensive teaching responsibilities in Center for Child Studies with three to five year-olds under staff supervision. A TB test is required. Two lectures (CF 450 /004), one 3-hour lab (CF 004) must be taken concurrently. Prerequisites: CF 126; CF 290; CF 120 or PY 120. (3)

CF 501/002. Preschool Child Practicum.

Clinical experience in guidance and care of the preschool child. Prerequisite: CF 120 or PY 120. (3)

CF 502. Preschool Children and Computer Technology.

Introduction to microcomputer hardware; awareness of computer curricula available; understanding role of computer technology in young child's development. Prerequisite: CF 120 or PY 120. (3)

CF 506. Theories and Issues in Child Development.

This course examines the theoretical constructs of child development and comparative educational and interactional implications. Prerequisite: CF 200 or CF 450/004 or CF 211. (3)

CF 509. Child Life Services.

Analysis of the reactions of children to hospitalization. Discussion of clinical skills related to developmental and psychosocial care of hospitalized children. (3)

CF 512. Utilizing Family and Community Resources.

Interrelationship of roles and activities of the professional with family, community, state and federal agencies; survey of referral networks. (3)

CF 517-518. Gerontology Practicum.

An advanced supervised field experience which focuses upon the administration, staff, schedule, and operation of programs for the elderly. Prerequisites: CF 206; CF 207; or 6 hours of related courses and/or experiences. (23)

CF 530. Research and Issues.

Overview of the issues, methodology and conclusions of classical and contemporary research as it relates to children's development. Research will be applied to parenting and to the classroom. Prerequisite: 18 hours of CF courses. (3)

CF 560. Practicum in Child Life.

An advanced supervised field experience with hospitalized children in selected health care settings and child life services programs. Prerequisites: 75 hours overall; CF 290; CF 291; CP 211; RC 260; CF 409 with 2.5 GPA ; 2.5 cumulative GPA; or consent of department chairperson. (6)

Clothing And Textiles (CT)

CT 110. Introduction to Fashion Merchandising.

Overview of the design, production, and distribution of fashion goods. Introduction to fashion trade vocabulary, centers of fashion, and career opportunities. (3)

CT 207. Textiles.

Study of natural and manufactured fibers, yarns, fabric, finishing, and coloring of textile products. Two lectures and one 2-hour lab. (3)

CT 230. Apparel Analysis.

Styling, material, and construction decisions and their impact on the cost and quality of mass produced apparel. Prerequisite: CT 207. (3)

CT 300. Professional Image and Behavior.

An examination of business etiquette, dress, and common procedures designed to facilitate smooth transition into the business world. (2)

CT 350. Apparel Aesthetics.

Visual fine arts principles as applied to the design and selection of mass produced apparel. (3)

CT 410. Internship in Textile and Apparel Management and Merchandising.

A career-related work experience in merchandising providing professional experience in the student's major area of study. Prerequisites: 75 hours and 2.5 cumulative GPA; 15 hours of CT courses. (6)

CT 415. Fashion Retailing.

Management of products in retail institutions. Examination of retail formats, product adoption theory,

assortment planning, and buying procedures for fashion merchandise. Prerequisites: CT 110; MK 301. (3)

CT 420. Specialty Markets.

A study of the manufacture and merchandising of specialty markets including menswear, children's wear, footwear, accessories, jewelry, cosmetics, and home furnishings. Prerequisite: CT 110. (3)

CT 450. Issues and Trends in Fashion Merchandising.

The impact of current social, economic, technological and cultural trends on the merchandising of fashion products. Prerequisite: CT 415. (3)

CT 517. History of Costume.

An overview of factors which affect form and function of human apparel from ancient times to the present. (3)

CT 518. Social Psychological Aspects of Clothing.

Social, psychological economic and cultural factors related to clothing. Prerequisite: PY 101. (3)

Coaching Education (CG)

CG 205. Coaching of Baseball.

Introduction to the coaching of baseball: fundamental skills, offensive systems, defensive systems, drills, practice organization, and scouting techniques. (2)

CG 210. Coaching of Basketball.

Introduction to the coaching of basketball: fundamental skills, offensive systems, defensive systems, drills, practice organization, and scouting techniques. (2)

CG 215. Coaching of Football.

Introduction to the coaching of football: fundamental skills, offensive systems, defensive systems, drills, practice organization, and scouting techniques. (2)

CG 220. Coaching of Softball and Volleyball.

Introduction to the coaching of softball and volleyball: fundamental skills, offensive systems, defensive systems, drills, practice organization, and scouting techniques. (3)

CG 225. Coaching of Track and Field.

Introduction to coaching each event in track and field. Emphasis on organization of a team and conducting events. (2)

CG 235. Coaching of Soccer.

Introduction to the coaching of soccer: fundamental skills, offensive systems, defensive systems, drills, practice organization, and scouting techniques. (2)

CG 470. Coaching Practicum.

Participation in an approved school athletic program. Emphasis on planning, goal setting, and season and within season training programs. Prerequisites: PE 220; PE 235; PE 341; appropriate coaching course; physical education major or coaching minor. (3)

Communication Disorders (CD)

CD 110. Language and Culture of the Deaf.

The study of the deaf culture and community, including an introduction to sign language. (University Studies course) (3)

CD 211. Anatomy & Physiology of the Speech Mechanism.

The study of the structures and functions of speech and hearing systems. Analysis of how normal speech structures function to produce speech. Includes introduction to methods used for speech behaviors. Prerequisites: BI 120 or BS 107. (4)

CD 225. Phonetics.

The study of clinical and linguistic phonetics. Anatomical, physiological, and acoustical parameters of speech production; articulation of vowels, diphthongs, and consonants and their classifications; dialectical variations of speech productions; clinical transcription training using the International Phonetic Alphabet. (4)

CD 230. Introduction to Communication Disorders.

A survey of disorders of communication. Emphasis on the nature and causes of the disorders and introduction to the general principles of assessment and treatment. Includes a 1 hour laboratory for completion of observation hours. (4)

CD 340. Normal Speech & Language Development.

The study of speech sound development and the acquisition and development of child language based on content, form and use. Prerequisite: CD 230 or may be taken concurrently. (3)

CD 371. Anatomy & Physiology of the Hearing Mechanism.

Basic course in hearing science including the physics of sound, anatomy, and physiology of the hearing mechanism, theoretical aspects of the hearing mechanism. Prerequisite: BI 120 or BS 107. (3)

CD 401. Clinical Practicum in Communication Disorders.

Supervised clinical experiences in managing children and adults with disorders of phonology, language, voice and fluency. A minimum of 30 clock hours must be obtained for each credit hour of enrollment. May be repeated. Prerequisites: Basic Diagnostic and Clinical Methods in Communication Disorders, and appropriate course for disorders assigned: CD 410; CD 430; CD 442. (1)

CD 402. Clinical Practicum in Communication Disorders.

Combined lecture and supervised clinical experience in managing children and adults with communication disorders. A minimum of 30 clock hours must be obtained for the course. (2)

CD 406. Diagnostic & Clinical Methods in Speech/Language Pathology.

A study of the materials and techniques used in managing children and adults with communication disorders. Diagnostic protocol, test selection and administration, report writing, and basic clinical intervention techniques will be presented. Includes a onehour laboratory to involve students in diagnostic and management sessions. Prerequisite: CD 230. (4)

CD 410. Speech Disorders I: Phonology, Articulation, Cleft Palate.

The study of phonological and articulatory disorders, as well as issues relating to cleft palate, and procedures for diagnosis and treatment. Prerequisite: CD 230 or consent of the instructor. (3)

CD 426. Hearing Disorders: Audiological Assessment.

Basic course in diagnostic audiology including instrumentation, calibration, case history interview, pure-tone audiometry, speech audiometry, acoustic immittance, electrophysiologic and audiometric interpretation. Prerequisite: CD 371 or consent of the instructor. (3)

CD 430. Speech Disorders II: Voice and Fluency.

Nature and description of voice and fluency, emphasizing etiology, prevalence/incidence, characteristics, and symptomatology. Introduction to assessment and management issues. Prerequisites: CD 211; CD 225; CD 230. (3)

CD 442. Language Disorders in Preschool and School-Aged Children.

Provides an introduction to language disorders resulting from deficits in the central nervous system and auditory system, and as a result of environmental and social influences. Emphasis will be on assessment and intervention. Prerequisite: CD 340. (3)

CD 461-463. Independent Study.

Individual study in speech pathology, or sciences basic to speech. Prerequisite: consent of department chairperson and college dean. (1-3)

CD 510. Multicultural Issues in Communication Disorders.

Introduction to the complex relationships existing between language, society, and communication disorders. A difference versus disorders approach will be utilized in considering communicative issues. Assessment and intervention approaches will also be discussed. Students will become acquainted with ethnographic approaches to research in real-life fieldwork experiences. Prerequisites: CD 225; CD 230. (3)

CD 525. Aural Rehabilitation.

Management of hearing impairment and auditory-based learning disabilities in children and adults including social/emotional, technological, educational, and cultural aspects. (3)

Communication Studies (SC)

SC 105. Fundamentals of Oral Communication.

The development of proficiency in oral communication through the study of rhetorical theories, principles, and strategies. (University Studies course) (3)

SC 155. Fundamentals of Interpersonal Communication.

Consideration of the elementary principles involved in effective person to person communication. (3)

SC 160. Intercollegiate Debate.

(For those in intercollegiate debate.) Introduction to contest debate and study of the intercollegiate debate question. (2)

SC 161. Intercollegiate Debate.

(For those in intercollegiate debate.) Continued study of the intercollegiate debate question. (2)

SC 200. Advanced Public Speaking.

Designed to extend skills acquired in SC 105 through study of different types of speeches for various occasions. Prerequisite: SC 105 or consent of instructor. (3)

SC 215. Intercultural Communication.

Study of such cultural variables as language, values, institutions, traditions, customs and nonverbal behavior on the communication process. (3)

SC 240. (Cross-listed as TH 240.) Oral Interpretation of Literature.

Theory and practice of the oral performance of literature. (University Studies Course). (3)

SC 305. Theories of Communication.

Survey of theories of human communication as applied to specific disciplines. Emphasis on contextual nature and process of human communication. Note: Students may not receive credit for SC 305 and MC 301. (3)

SC 310. Speech Writing.

Theory and practice of writing the spoken word. Special attention given to matters of style. Study of the role of the illustration as a composition device. Accumulating and structuring supporting material for manuscript speaking. Prerequisite: SC 105. (3)

SC 314. Argumentation and Problem Solving.

Study of argumentation and decision-making in questions of controversy and public policy (i.e. law, business, social action, politics, education). (3)

SC 320. Group Communication and Decision-Making.

Principles of group communication and decisionmaking. Development of skills necessary for effective participation in group settings. (3)

SC 330. Corporate and Professional Communication.

The study of basic communication principles and the opportunity to apply those principles to typical business and professional communication situations. (3)

SC 335. Interviewing: Principles and Practices.

A study of the basic principles of interviewing used in informational, persuasive, employment and appraisal interviews. Extensive practice in questioning techniques, structuring and conducting various types of interviews. Prerequisite: 3 hours of Communication Studies. (3)

SC 355. Relational Communication Strategies.

Study of concepts and theories of communication strategies in building and maintaining relationships, with emphasis upon improving communication in the workplace. (3)

SC 365. Communication Between the Sexes.

A study of the role that sex differences and sex-role stereotypes play in the communication process in major communication contexts. (3)

SC 400. Advanced Debate.

(For those in intercollegiate debate.) Intensive study of the intercollegiate debate question. (3)

SC 406. Communication Principles of Negotiation and Conflict Management.

Study of the utility of negotiation and mediation in community, interpersonal, labor/management, legal, commercial and international disputes. (3)

SC 461-463. Independent Study.

Individual study in rhetoric and persuasion. Prerequisite: Consent of department chairperson; meet hours completed and GPA requirements. (1-3)

SC 483-486. Internship in Speech Communication.

Supervised work with professionals in communication studies. Prerequisites: 75 hours with minimum 3.0 GPA; 18 hours of speech communication with minimum of 3.25 GPA; consent of department chairperson. (3-6)

SC 505. Seminar in Criticism of American Public Address. A course in rhetorical criticism. Treatment of the methodology of speech criticism as it has developed from prominent rhetorical theories throughout the history of public address. Prerequisite: SC 200. (3)

SC 510. Leadership and Team Building.

Observation, analysis, and evaluation of verbal and non-verbal communication in the small group setting. (3)

SC 515. General Semantics.

Treatment of human abstraction processes and their role in interpersonal communication. A consideration of the effect of symbols on human behavior. (3)

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SC 560. Organizational Communication.

Study of communication functions and networks in organizations. Emphasis on leadership functions and principles needed for effective management of organizational communication processes. Prerequisite: 3 hours of Communication Studies. (3)

SC 590. Communication and Attitudes: Theory and Research.

Study of contemporary theory and research regarding attitude formation and change, and the implications for public communication. (3)

See University Studies (UI) listings for descriptions of:

UI 301. Managerial Communication Processes. (3)

UI 320. The Modern Presidency. (3)

UI 345. Nonverbal Communication. (3)

UI 423. Political Communication. (3)

UI 425. Persuasion. (3)

Computer Science (CS)

CS 003. Computer Science Assessment.

Required of all Computer Science and Applied Computer Science majors. Credit/no credit. Prerequisite: Computer Science or Applied Computer Science major; enrolled in final semester of degree program. Corequisite: CS 495. (0)

CS 117. The Information Age.

The impact of information technology on social structures, political, economic, philosophical, and social dimensions. (3)

CS 120. Introduction to Computer Science.

Broad overview of the field of Computer Science, including algorithms, mathematical foundations, computer logic and architecture, systems software, high level programming languages, applications, and social issues. Lab experience with simulators and applications. Two hours lecture, two hours lab. Prerequisite: MA 095/MA 096 with minimum grade of 'C', or placement in MA 134 or above. (3)

CS 155. Computer Science I.

Fundamental principles of computer science and software engineering concepts, including working from software requirements to design, implement, and test programs; introduction to programming in a structured high-level language; significant hands-on experience with programming using a language development system and computer operating system. Four hours lecture and two hours lab. Prerequisite: MA 134 with minimum grade

of 'C'; IS 130 or CS 120 with minimum grade of 'C' or departmental placement. (5)

CS 180. Scientific Computing I.

An introduction to scientific computing. Topics include scientific information systems, productivity tools, introduction to programming and computer applications. Two hours lecture and two hours lab. Prerequisite: MA 139 or MA 140 with minimum grade of 'C'. (3)

CS 265. Computer Science II.

Review of static data structures. Introduction to recursion, abstract data types, classes, and object oriented programming. Implementations, as abstract data types, of the data structures stacks, queues, linked lists and binary trees. Study of the Standard Template Library. Applications of these data structures. Four hours lecture and two hours lab. Prerequisite: CS 155 with a minimum grade of 'C'. (5)

CS 300. Computer Science III.

Continued study of data structures, algorithms, object orientation, and standard libraries with an emphasis on practical programming. Prerequisite: CS 265 with minimum grade of "C." (3)

CS 315. C and the Unix Environment.

Course provides a thorough introduction to the UNIX operating systems and extensive programming in C. Prerequisite: CS 265 with a minimum grade of 'C'. (3)

CS 331. Business Applications Programming.

Fundamentals of structured computer programming using a business oriented language. Prerequisite: CS 265 with minimum grade of 'C'. (3)

CS 335. LISP Programming.

Programming in LISP and Scheme with emphasis on the LISP programming style. Prerequisite: CS 300 with minimum grade of 'C' or consent of instructor. (1)

CS 345. Foundations of Computer Science.

A study of the theoretical foundation of computer science. Topics include graph theory, computational models, proof correctness and algorithm analysis will be presented. Prerequisites: CS 300; MA 138; and MA 140 with minimum grades of 'C'. (3)

CS 350. Data Structures and Algorithms.

A continuation of the study of data abstractions and the algorithms for their manipulation. Emphasis on non-numeric algorithms. Prerequisite: CS 345 with minimum grade of 'C'. (3)

CS 365. Computer Organization and Assembly Language.

The structured organization of computers, emphasizing hardware and instruction set architecture, programming at the conventional machine level, and microprogramming. Prerequisite: CS 315 with minimum grade of 'C'. (5)

CS 375. Computer Graphics.

Study of principles, problems, and applications of computer graphics in two and three dimensions. Prerequisites: CS 315 and MA 345 with minimum grades of 'C'. (3)

CS 380. Computer Operating Systems.

Explores the concepts and implementation of operating systems. Prerequisite: CS 300 and CS 315 with minimum grades of 'C'. (3)

CS 381. Novell Networks.

Implementation of Novell Network. No credit toward Computer Science major or minor. Credit/no credit only. Prerequisite: CS 315 with a minimum grade of 'C'. (1)

CS 382. MS NT Networks.

Implementation of Microsoft NT network. No credit towards Computer Science major or minor. Credit/No Credit only. Prerequisite: CS 315 with minimum grade of 'C'. (1)

CS 390. Programming Languages.

Properties of algorithmic languages including scopes of declarations, storage allocation, grouping of statements, runtime behavior; introduction to Language and BNF Grammars. Prerequisite: CS 300 with minimum grade of 'C'. (3)

CS 440. Data Base.

Basic concepts of data base management. Discussion covers relational data bases and design method. Prerequisite: CS 300 with minimum grade of 'C'. (3)

CS 445. (Cross-listed as IS 445). Application Systems Analysis and Design.

Provides an in depth understanding of the principles and techniques used in the analysis and design aspects of developing application systems. Apply techniques and tools to produce the system artifacts pertaining to analysis and design. Prerequisite: Junior standing; CS 300 or IS 275 with a minimum grade of 'C'. (3)

CS 450. Software Engineering.

Principles, techniques, processes and tools for developing quality software with system documentation. Hands-on experience with a team project. Prerequisites: Minimum grade of 'C' in either CS 445 or IS 445; Senior standing in Computer Science major; passage of 75-hour Writing Proficiency Exam. (3)

CS 455. Topics in Applications Programming.

Advanced topics in applications programming. Prerequisites: CS 300 and CS 315 with minimum grades of 'C'. (3)

CS 480. Data Communications.

Principles of data communication and computer networks. Prerequisites: CS 300 and CS 315 with minimum grade of 'C'. (3)

CS 481-483. Problems in Computer Science.

Directed study of special topics in computer science through seminars, workshops, forums, etc. (1-3)

CS 485. Internship in Computer Science.

A supervised learning and work experience in professional computer science which augments computer science and information systems courses taken on campus. May be repeated once. On demand. No credit on computer science major or minor. Prerequisites: CS 300; 75 hours completed; 2.75 cumulative GPA; 15 hours CS or IS courses with 3.0 GPA. (3)

CS 490. Artificial Intelligence.

An introduction to Artificial Intelligence with LISP and PROLOG covering fundamental constructs and algorithms, various knowledge representations and advanced topics. Prerequisites: CS 350 or some background in logic. (4)

CS 491-493. Independent Study in Computer Science.

Intensive study of computer science topics under faculty supervision. (1-3)

CS 495. Senior Seminar.

The impact of computer on society, ethical issues and privacy issues in the computer field. Credit/no credit only. Prerequisite: Computer Science or Applied Computer Science major; enrolled in final semester of degree program; passage of WP 003. Corequisite: CS 003. (1)

Construction Management (CM)

CM 310. Construction Contracts and Building Codes.

Building codes, contracts, rights, obligations and liabilities of parties engaged in construction that flow from the contracts, laws and business practices common to the construction industry. (3)

CM 320. Construction Cost Estimating.

Preparation of bid proposals including methods of pricing materials, equipment, and labor for residential and commercial construction projects. Prerequisites: MA 134; TG 322; or consent of instructor. (3)

CM 330. Construction Planning and Scheduling.

Construction project planning and scheduling principles and practices used by contractors to control time and cost. Prerequisites: TG 322; or consent of instructor. (3)

CM 342 (IE 342). Construction Technology.

Study of the materials, procedures and processes utilized in the building construction industry. (3)

CM 410. Construction Project Administration.

Construction project administration principles and practices. Managing time, people, equipment and costs to build a project on time and to bid. Prerequisites: CM 310, CM 320; CM 330. (3)

Counseling Programs (CP)

CP 111. Principles of Personal Adjustment.

Designed for beginning college students in which psychological principles of adjustment are related to the student's own lifestyles and plans. Open to students with fewer than 45 hours. (3)

CP 210. Introduction to Counseling.

Designed to aid students in the development of interpersonal, helping, group and managerial skills. (3)

CP 231. Career/Life Planning.

Introduces work world and assists in selecting major and/or career. Opportunity provided for self-assessment. Activities to develop jobrelated skills included. Credit/no credit course. (1)

CP 431. Job Search Techniques and Strategies.

An experience-oriented course for new job seekers, with emphasis on resume writing, correspondence and interviewing skills and techniques. (1)

CP 441. Explorations of Self.

An exploration of several dimensions of the self, such as separateness, intimacy, sexual perspective, competence, freedom, aging and death. Open to students with more than 45 hours. (3)

CP 451. Micro-counseling Techniques.

A survey of the guidance program. Particular emphasis on the teacher's role in the guidance process. (3)

Criminal Justice (CJ, CO, LE)

CJ 100. Introduction to Criminal Justice.

General survey of federal, state, and local agencies involved in administration of criminal justice including police, courts, and corrections. (3)

CJ 110. Introduction to Law Enforcement.

Philosophy, history and problems of law enforcement; organization and jurisdiction of local, state, and federal law enforcement agencies will be examined. Pre or corequisite: CJ 100. (3)

CJ 125. Introduction to Corrections.

Introduces students to problems and the diversity of emphasis being placed on correctional programs. (3)

CJ 220. Criminal Law.

Examines substantive law, classification of offenses and matters that affect criminal responsibility. Prerequisite: CJ 100. (3)

CJ 230. Correctional Institutions.

Study of prisons and other correctional institutions. Traces the history, development, types, objectives, and organizations and administration of penal systems. Prerequisites: CJ 100; CJ 125. (3)

CJ 310. Advanced Police Administration.

Supervision and personnel management practices applied within the law enforcement agencies, first line supervision and middle-management in police agencies. Prerequisites: CJ 100; CJ 110. (3)

CJ 325. Security Systems.

The role of security and the security industry in criminal justice; physical aspects of the security field; loss prevention in proprietary and governmental institutions; variations in physical security systems. Prerequisite: CJ 100. (3)

CJ 326. Security/Asset Prevention.

Operation of loss prevention, assets protection, programs in business, industry, government and institutions; emphasis on theft control, employee dishonesty, shoplifting and fire protection. Prerequisite: CJ 325. (3)

CJ 327. Security Management.

The organization and management of security units in industry, government, business, institutions; the protection of manpower, facilities and other assets; administrative, legal and technical issues. Prerequisite: CJ 325. (3)

CJ 330. Criminal Investigations.

Examination of techniques employed in the investigation of crimes and the professional application of these techniques. Prerequisites: CJ 100; CJ 110; CJ 220. (3)

CJ 335. Police Operations.

An examination of the operational components of contemporary police organizations. Examines the development of operational goals and objectives, development of programs and applicability of research findings to strategies. Prerequisites: 9 hours of CJ courses, including CJ 100 and CJ 330. (3)

CJ 350. Evidence Collection and Preservation.

Introduction to evidence collection and techniques used in the crime laboratory and their relation to each other. Emphasis on scientific and legal requirements for evidence collection and handling. Prerequisites: CJ 330; 5 hours of any natural science course. (3)

CJ 355. Constitutional Rights of Inmates.

An analysis of the rights of prisoners as guaranteed by the constitution and interpreted through specific cases. Prerequisites: CJ 100; CJ 125. (3)

CJ 365. Community Based Corrections.

Study of group homes, work release programs, halfway houses, workstudy projects and other community based programs. Prerequisites: CJ 100; CJ 125. (3)

CJ 370. Juvenile Justice.

Designed to acquaint students with the problems of dealing with juveniles in the criminal justice system. Prerequisite: CJ 100. (3)

CJ 375. Criminal Typologies and Victimology.

A survey of criminal and victim behavior patterns and subtypes for specific crimes, including personality and social characteristics, motivations, and methods and techniques. (3)

CJ 422. Criminal Procedure.

Survey of the legal aspects of criminal procedure from arrest through appeal. Focuses on the law of arrest, search and seizure and the nature of legal proof at criminal trial. Prerequisites: CJ 100; CJ 110; CJ 220. (3)

CJ 425. Planning and Research in Criminal Justice.

Role and scope of planning and research in Criminal Justice organizations is examined. Prerequisite: CJ 100. (3)

CJ 435. Seminar.

Examines major problems currently facing the system. Discussion of proposed solutions to the problems identified. Prerequisite: CJ 100. (3)

CJ 440. Theories and Methods of Offender Rehabilitation.

Analysis and evaluation of current theories and methods of treatment and classification in the correctional environment. Prerequisites: CJ 100; CJ 125. (3)

CJ 471-473. Independent Study. (1-3)

CJ 491. Internship in Criminal Justice.

Practical experience with field agencies. (6)

CJ 510. Comparative Criminal Justice Systems.

Study of the criminal justice systems of four major countries, including Great Britain, Japan and Sweden. Each country's differing philosophical and practical approaches to criminal justice are analyzed and compared.

CJ 525. Crime & Criminal Justice Policy.

An examination of how crime and criminal justice programs become public agenda items through the process of coalition, building, implementation and adoption, and finally the scrutiny of evaluation. Current trends such as the Crime Bill and prison capacity examined. Intended as an overview of how crime policy is formulated and adopted into the American political agenda. Prerequisite: Introductory course in criminal justice or permission of instructor. Preferred background in criminal justice or social sciences. (3)

CJ 526. Statistical Analysis in Criminal Justice.

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The use of statistical methods and computer applications for research and program analysis in criminal justice. Prerequisite: MA 134 or consent of instructor. (3)

CJ 535. Civil Law and Liability.

Study of the civil justice system, theories of civil liability in the law enforcement and corrections context. Prerequisite: CJ 100; CJ 220; CJ 355 or CJ 422; CJ 230 or CJ 310; senior standing; permission of instructor. (3)

CO 491. Internship in Corrections.

Practical experience with field agencies. (6)

LE 491. Internship in Law Enforcement.

Practical experience with field agencies. (6)
See University Studies (UI) listings for descriptions of:
UI 300. Drugs and Behavior. (3)
UI 309. Crime and Human Behavior. (3)
UI 343. Transcultural Experience. (3)
UI 427. Service and Community (3)

Dance (DA)

DA 100. (DA 214) Dance Appreciation.

Develops ability to describe, analyze, interpret, and evaluate dance through exposure to writings, discussions, active learning dance experiences, and performances. (University Studies Course) (3)

DA 105. (Cross-listed as TH 105)

Training and practical hands-on experience in performance, crew work, and all aspects of technical production through active participation in the mounting of departmental productions. May be repeated for credit. (.5)

DA 110. (DA 115). Ballet I.

Beginning technique, training and understanding of the classical ballet discipline. (2)

DA 120. (DA 123) Contemporary Dance I.

Introduction and beginning level study of contemporary concert dance techniques that are derived from traditional modern dance techniques. (2)

DA 125. (DA 122) Jazz Dance I.

Beginning technique, training and understanding of the jazz dance discipline. (2)

DA 130. (DA 117) Ballroom Dance I.

Fundamental steps in ballroom dance, including the fox trot, waltz, swing, tango, and cha cha. (1)

DA 135 (DA 126). Tap Dance I.

Beginning technique, training and understanding of the tap dance discipline. (2)

DA 140. Body-Mind Conditioning I.

An activity-oriented exploration of the Pilates exercise program (the Physicalmind Method) and other body therapies. (1)

DA 145. (DA 128) Line Dance.

Introduction to the variety of line dances from the United States and around the world. (1)

DA 155. Capoeira I.

Introduction to the African-Brazilian "Art of Survival" that combines elements of dance, acrobatics, martial arts, music and ritual. (2)

DA 185 (DA 215). Movement Analysis.

Conceptual based exploration of human movement as the primary expression of dance and theatre. (3)

DA 190. Practicum in Dance Techniques I.

Directed individual study of selected dance techniques. Credit/no credit. Consent of instructor required. (1)

DA 210. (DA 116) Ballet II.

Intermediate level technique, training and understanding of the classical ballet discipline. Prerequisite: DA110; consent of instructor. (2)

DA 219. (Cross-listed as PE 219) Theory and Practice of Dance.

Theory, skill development and teaching techniques of folk, children's movements (basic rhythms/creative movement), recreational, ballroom, ballet jazz, and aerobics. Laboratory class. (3)

DA 220. (DA 124) Contemporary Dance II.

Intermediate level study of contemporary dance techniques that are derived from traditional modern dance techniques. Prerequisite: DA 120; consent of instructor. (2)

DA 225. Jazz Dance II.

Intermediate level technique, training and understanding of the jazz dance discipline. Prerequisites: DA 125; consent of instructor. (2)

DA 230. Ballroom Dance II.

Continuation of DA 130, with additional instruction in various forms of swing and Latin styles. Prerequisites: DA 130; consent of instructor. (1)

DA 235. Tap Dance II.

Intermediate technique, training and understanding of the tap dance discipline. Prerequisites: DA 135; consent of instructor. (2)

DA 245. Line Dance II.

Continuation of DA 145, with intermediate level line dances from the United States and around the world. Prerequisites: DA 145; consent of instructor. (1)

DA 255. Capoeira II.

Intermediate level study of Capoeira and Maculele. Practice of movement, songs, musical instruments, and investigation into historical and cultural roots. Prerequisites: DA 155; consent of instructor. (2)

DA 285. (DA 330) Choreography I.

Practice in the craft of choreography and utilization of formal structures to compose dances as works of art. Prerequisite: DA 185. (3)

DA 290. Practicum in Dance Techniques II.

Directed individual study of selected dance techniques. Credit/no credit. Prerequisite: consent of instructor. (2)

DA 305. (Cross-listed as TH 305) Rehearsal and Production II.

Advanced laboratory course exploring various areas of performance, crew work, and all aspects of technical production through active participation in the mounting of departmental productions. May be repeated for credit. Prerequisites: Two credit hours of TH 105 and/or DA 105 or consent of instructor. (.5)

DA 310. Ballet III.

Advanced level technique, training and understanding of the classical ballet discipline. Prerequisites: DA 210; consent of instructor. (2)

DA 320. Contemporary Dance III.

Advanced level study of contemporary concert dance techniques that are derived from traditional Modern Dance techniques. Prerequisites: DA 220; consent of instructor. (2)

DA 325. Jazz Dance III.

Advanced level technique, training and understanding of the jazz dance discipline. Prerequisites: DA 225 or consent of instructor. (2)

DA 340. Movement Therapies.

An in-depth examination of the dance therapies involved in the physical and psychological therapeutic potential of movement. (3)

DA 385. Movement Improvisation.

Exploration of the fundamentals of movement improvisation as instantaneous group composition and performance technique. Prerequisite: DA 185. (2)

DA 390. (DA 414) (Cross-listed as TH 390) Topics in Dance.

In-depth research in history, criticism, aesthetics, education, and other topics in dance, including contemporary issues. Prerequisite: consent of instructor. (3)

DA 395. Kinesiology and Physiology of Dance.

Investigation of the kinesiology and physiology of the human body as it relates to dance. Prerequisite: DA 185. (3)

DA 400. (Cross-listed as MU 400 and TH 400) Senior Recital.

Public recital demonstrating ability to perform a variety of musical theatre genres. Required of all BFA Performing Arts students. Prerequisites: Senior status; consent of performing arts faculty member. (2)

DA 461-463. (DA 361-363). (Cross-listed as TH 461-463) Independent Study.

Individual study in theatre or dance. (1-3)

DA 485. Choreography II.

Continued practice in the craft of choreography and utilization of formal structures to compose dance as works of art. Prerequisites: DA 285; DA 385. (3)

DA 490. Dance History.

Study of dance styles and traditional throughout history, primarily in Western culture after 1500. Prerequisites: DA 100; TH 100; TH 230; or consent of instructor. (3)

DA 498. (Cross-listed as TH 498) BFA Project.

Preparation, presentation, and assessment of a major artistic project. (2)

DA 499. (Cross-listed TH 499) Internship.

Practical involvement in a performing arts company/venue. Credit/no credit. (4)

See University Studies (UI) listings for descriptions of: UI 433. Aesthetics of Movement. (3)

Early Childhood Education (CE)

CE 330. Classroom Management.

Presents a preventative model of classroom management which includes comparison of various theories and discussion of general positive classroom practices. Prerequisite: A techniques of teaching course. (3)

CE 340. Parent/School Collaborations in Elementary/Early Childhood Education.

Emphasizes teacher and school administrator role in the development of parent/school partnerships, and techniques and strategies of effective collaboration. (3)

CE 365. Connecting Assessment and Curriculum in the Early Years (Birth-Age 8).

Studies assessment, including tests and informal methods such as observations and portfolios. Connects results to individual goals and classroom curricula. Prerequisites: Elementary Block II; CF 290; CF 291. (2)

CE 366. Developing Curriculum in Early Childhood Education.

Presents developmentally appropriate principles, techniques and materials for use in early childhood programs, and includes field experience. Prerequisites: Elementary Block II; CF 290; CF 291. (4)

CE 368. Early Childhood Education Field Experience.

Integration of appropriately designed field experiences with early childhood coursework taken in Early Childhood Block. Prerequisites: Elementary Block I; CF 290; CF 291. (3)

CE 370. Language Development of the Young Child.

Normal language development; theory, sequence, relationship to overall child development, informal assessment, stimulation of language development, management of minor problems. (2)

CE 433. Student Teaching Experience I.

Professional practicum requiring demonstration of MoSTEP Quality Indicators in school settings. Under the direction of cooperating teachers and university supervisors. (6) Prerequisite: In good standing in Teacher Education Program, successful completion of PH218, UI318, PE308, and MoSTEP Quality Indicators 1, 2, 4, 5, 6, 7, and 9 at the "Meets" level.

CE 434. Student Teaching Experience II.

Intensive professional practicum requiring superior demonstration of MoSTEP Quality Indicators in school settings. Under the direction of cooperating teachers and university supervisors. (6) In good standing in

Teacher Education Program. Successful completion of PH218, UI318, PE308, and Student Teaching Experience I (CE433). Satisfactory MoSTEP Portfolio which demonstrates that all ten (1-10) MoSTEP Quality Indicators have been accomplished at the "Meets" level.

CE 502-504. Exemplary Programs in Early Childhood Education.

Study of innovative and exemplary programs at the regional, national and international level. Foreign and/or domestic travel required. Prerequisite: CE 366. (3)

Economics (EC)

EC 101. Economic Problems and Policies.

An introduction to the domestic and international economic problems facing the United States today and an analysis of the policies designed to alleviate these problems. (University Studies course) (3)

EC 201. Selected Topics in Economics.

Important, current or specific economic topics which may confront the individual personally or as a member of society. May be repeated up to three times. (1)

EC 215. Principles of Microeconomics.

U.S. market economic system. Demand, supply, competition, pricing, resource allocation concepts applied to issues in business, labor, and public policy. Prerequisites: AD 101 or IE 102; MA 134 or equivalent. (University Studies course) (3)

EC 225. Principles of Macroeconomics.

Economic concepts, institutions, theories and policies including study of national income, inflation, unemployment, banking system, money, growth and international economics. Prerequisites: EC 215 or AG 245; MA 134. (3)

EC 235. Free Market Economics.

Alternative methodology to conventional economics, praxeology, which stresses the deductive approach. Frequently referred to as the Austrian School. (3)

EC 335. Monetary Economics.

Analysis of money's role in the U.S. economy. Emphasis on the Federal Reserve system and monetary policy. Prerequisites: EC 215; EC 225; MA 134. (3)

EC 340. Economics of Growth and Development.

Characteristics and problems of less developed countries. Criteria of growth and development with emphasis on strategies for development. Obstacles to economic growth and policies for promoting growth. Prerequisites: EC 215; EC 225; MA 134. (3)

EC 344. Environmental Economics.

Application of economic theory to problems faced by environmental managers and policy makers. Prerequisites: MA 134; EC 101 or EC 215. (3)

EC 350. Development of Economic Thought.

The evolution of economic thinking from ancient Greece to modern times. Examination of the interaction between underlying social and cultural conditions and economic thinking. Prerequisite: EC 101 or EC 215. (3)

EC 351. Applied Economic Models.

Introduction to the process of data collection, model construction, hypothesis testing and prediction used by economists and social scientists. Prerequisites: MA 134; EC 101, EC 215, or EC 225; any college-level statistics course. (3)

EC 360. Managerial Economics.

Application of microeconomic theory to the practical problems faced by decision makers in business environment. Prerequisites: EC 215; MA 134. (3)

EC 380. Labor Economics.

The determination of wages, employment and the quantity and quality of work is examined. Prerequisites: EC 215; EC 225; MA 134. (3)

EC 381-383. Economics Internship.

Internship with a public agency or private business firm with approval of the Chair, Economics Dept. The field work will provide first hand experience in the operations of organizations, institutions and firms. Prerequisites: 75 hours of college credit with fifteen hours in economics, including EC 215 and EC 225; a GPA of 2.5 overall; 3.0 GPA in economic courses; recommendation by the department chairperson or designee. (1-3)

EC 387-389. Independent Study in Economics.

Directed individual study of special interest areas in economics. Prerequisites: Approval of department chairperson; a minimum of 75 semester hours completed; a minimum of 10 semester hours in economics; a minimum overall 2.5 grade point average or a minimum 2.75 grade point average in economics. (1-3)

EC 410. Macroeconomic Theory.

Analysis of an economy's overall level of output, employment and prices. Several schools of thought are

considered. Prerequisites: EC 215; EC 225; MA 134. (3)

EC 420. Microeconomic Theory.

Leading theories of value and distribution with an analysis of price and output determination for firms and industries under various market conditions. Prerequisites: EC 215; EC 225; MA 134. (3)

EC 425. Industrial Organization.

The study of market structures in the U.S. economy. Applies microeconomic theory to industry studies, including elements of structure, conduct and performance. Prerequisites: EC 215; MA 134. (3)

EC 440. Regional Economic Growth & Development.

An examination of the economic forces influencing the performance of urban and regional areas, with a discussion of contemporary urban and regional economic problems. Prerequisites: EC 215; EC 225; MA 134. (3)

EC 470. Public Sector Economics.

The financing of national, state and local governments. Prerequisites: EC 215; EC 225; MA 134. (3)

EC 490. Business Forecasting.

Introduction to the various econometric forecasting techniques available to deal with economic and business prediction. Prerequisites: EC 215; EC 225; MA 134; introductory statistics. (3)

EC 498. Economics Seminar.

Assigned readings and a paper designed around a specific economic issue. Intended to integrate economic analysis and reasoning from both macro and microeconomic perspectives. Co-requisites/Pre-requisites: EC 410; EC 420. (1)

EC 525. Public Policy Economics.

Economic analysis of the functions of government in a market economy. Prerequisites: EC 215; EC 225; MA 134. (3)

EC 580. International Economics.

Development and maintenance of trade between nations; trade policies, exchange rate determination, financial activities involved. Prerequisites: Minimum grade of 'C' in EC 215, EC 225 and MA 134; senior standing. (3)

See University Studies (UI) listings for description of:

UI 322. **International Political Economy.** (3)

UI 349. **Comparative Economic Systems.** (3)

UI 366. **Law and Economics.** (3)

UI 371. **Government and Business.** (3)

Education (ED)

ED 100. Improving College Reading.

For students who desire to improve vocabulary and increase critical reading skills. (3)

ED 101. Reading for Second Language Students.

For all nonnative English speaking international students who need to improve reading skills in vocabulary and comprehension. Prerequisite: ED 098 or score above 23rd percentile on standardized reading test. (3)

ED 255. Children and the Arts.

To enable the student to integrate dance, music, theatre, and visual art in the educational setting. Prerequisite: MU 356 or approved equivalency after fall 98 semester. (3)

ED 265. The Junior High and Middle Schools.

History, development, and unique problems of junior high/middle schools, characteristics of students and strategies for teaching in those schools. (2)

ED 480-482. Independent Study in Education.

Directed individual study of problems and special topics in education. Open only to students pursuing the B.S. in Education degree. (1-3)

ED 525. International Teaching Practicum.

Comparative study of and supervised teaching practicum in an international and multicultural setting. Prerequisites: Completion of required techniques of teaching courses; overall GPA of 2.5; consent of instructor. (3)

Educational Administration (EA)

EA 441. Contemporary Issues in Education.

Provides teacher education majors of advanced standing with an overview of school organization and procedures, school law, and other issues and problems that are of current interest and concern. (2)

Educational Foundations (EF)

EF 200. School and Society.

An introductory study of schooling as the principal institution by which American society educates its citizens for life in a democratic social order. Prerequisites: Admission to Teacher Education Program; Secondary Block I; US 105 or US 107; PS 103. Corequisite: Secondary Block II. (2)

EF 400. Seminar in Educational Issues for Student Teachers.

A seminar connecting student teaching and current educational issues in American schooling, requiring completion of MOSTEP portfolio. Prerequisite: Secondary Blocks I, II, & III. Corequisite: Student teaching. (1)

EF 592. Philosophy of Education.

A study of the nature of philosophical inquiry in education. Course includes consideration of traditional and contemporary educational thought and the philosophical analysis of the problems of education (3)

Educational Media (EM)

EM 102. Technology and the Teacher's Role.

An overview of technological tools available to educators; includes experience with computer applications. (1)

Electronics Technology (ET)

ET 100. Networking Fundamentals and Router Technologies.

Focus on OSI networking model, network topologies, IP addressing, subnet masks, basic network design, beginning router configurations, routing protocols, and introduction to LAN switching. Prerequisite: Basic computer literacy: Windows and DOS. (3)

ET 101. Network Design and Advanced Routing.

Focus on advanced router configuration, LAN switching, network management, advanced network design, advanced management projects. Prerequisite: ET 100. (3)

ET 160. Basic Electricity and Electronics.

Properties and applications of electric circuit elements, Ohm's and Kirchoff's laws; node and loop equations; AC sources and impedance; magnetic circuits; and digital systems. (3)

ET 162. DC/AC Principles and Circuits I.

A study of basic DC and AC circuits, devices, meters, including theory, practical applications, and troubleshooting. (3)

ET 164. DC/AC Principles and Circuits II.

An advanced study of DC and AC circuits and devices such as seriesparallel circuits, reactive circuits, filter resonant circuits, and transformers, including computer simulations. Prerequisite: ET 162. (3)

ET 194. Fundamentals of Programmable Logic Controllers.

Introduction to Programmable Logic Controls (PLC), principles of how PLC's work and providing practical information and skills about installing, programming, and troubleshooting. Prerequisite: ET 160 or ET 162 or consent of instructor. (3)

ET 260. Electronic Circuit Design and Analysis I.

Fundamentals of semiconductor materials, diodes, transistors, basic circuit configurations, analysis, computer simulation, design, and application. Prerequisite: ET 164.(3)

ET 261. Residential Wiring.

Study of the design and application techniques of residential electrical wiring consistent with the National Electric Code. (3)

ET 262. Electronic Circuit Design and Analysis II.

Fundamentals, analysis, design, computer simulation and application of power amplifiers, filters, oscillators, operational amplifiers, solid-state switching, thyristors, and voltage regulators. Prerequisite: ET 260. (3)

ET 263. Photovoltaics and Optoelectronics.

Introduction to transmission of information through fiber conductors and generation of electrical energy by means of the photovoltaic effect. Prerequisite: ET 262. (3)

ET 361. Communications Systems.

A study of basic theory, devices, circuits, and systems for the transmission and reception of AM, FM, and PM signals, transmission lines, microwave measurements, wave guides, coaxial lines, tees, couplers, resonant cavities, mixers, detectors, and switches used in communication systems. Prerequisite: ET 262 and PH 120. (3)

ET 364. Logic Circuits.

Analysis, design and application of digital devices and circuits including: gates, flipflops, counters, arithmetic

circuits, multiplexing, demultiplexing, encoders, decoders, and latches. Prerequisite: ET 262. (3)

ET 365. Industrial Electrical Power.

Generation, distribution and consumption of electrical power. Fundamentals, selection and applications of direct current motors, single-phase and three-phase motors, transformers, motor controls including variable frequency drives. Prerequisite: ET 160 or ET 162. (3)

ET 366. Microcontrollers.

Introduction to microcontroller based systems including system architecture, instruction set, addressing modes, system timing, system interfacing, and troubleshooting. Prerequisites: ET 364 or EP 305. (3)

ET 368. Advanced Digital Principles.

A study of the SSI, MSI, LSI, VLSI, programmable logic and memory chips that make up the modern microcomputer. Prerequisite: EP 305 or ET 364. (3)

ET 370. Computer Peripherals, Networking and Routers.

OSI networking and topologies, beginning router configurations, routing protocols, and introduction LAN switching. Prerequisite: basic computer literacy. (3)

ET 460. Pulse Circuits.

Analysis, design and application of pulse circuits including multivibrators, timers, clock circuits, filtering and wave shaping. Prerequisite: ET 262. (3)

ET 462. Networking I.

A study of basic knowledge, physical layer, data link layer, network layer, transport layer, TCP/IP fundamentals, remote connectivity and security of networks. Prerequisite: ET 364 or EP 305. (3)

ET 464. Telecommunications & Networking II.

A study of technical topics related to managing telecommunications and the Internet. Projects and exercises will complement conceptual coverage to provide a real-world context. Prerequisite: ET 462. (3)

ET 465. Computer Peripherals.

A study of the installation and repair of major computer peripherals including printers, disk driver and display. Prerequisite: ET 364; EP 305 or ET 101. (3)

ET 466. Industrial Instrumentation.

Measuring industrial parameters and converting to coded electrical impulses, converting these impulses to sensory perceived displays. Prerequisite: ET 460. (3)

ET 468. Industrial Control.

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Southeast Missouri State University 2003-04

A study of process controls fundamentals (PI, PD, PID), sensors, transducers, actuators, and distributed controls, and their industrial/commercial applications using programmable controllers. Prerequisite: ET 194, ET 365, and ET 366 or consent of the instructor. (3)

ET 470. Energy Management.

A study of energy auditing, rate structures, economic evaluation techniques, lighting efficiency improvement, HVAC optimization, combustion and use of industrial waste, steam generation and distribution system performance, Distributed Digital Control systems, process energy management, and maintenance considerations. Prerequisites: ET 365; computer skills; or consent of instructor. (3)

Elementary Education (EL)

EL 120. Elementary Block I: Field Experience.

An entry level course for students wishing to pursue a career in the field of education. Corequisite: PY 120 or CF 120. (2)

EL 210. Integrating Technology Into the Classroom.

This class will provide an in-depth look at the use of existing computer-based technologies as they relate to teaching and learning. Prerequisites: EM 102 or permissions of instructor. (3)

EL 260. Elementary Block II: Field Experience.

Field experiences for the implementation of Block II content course requirements. Prerequisite: Elementary Block I and LI243. (3)

EL 261. Theories of Learning and Management: Elementary.

A field-based course with emphasis upon the impact of learning theories, effective classroom environments, developmentally appropriate instruction, and student diversity. Prerequisite: Elementary Block I and LI243. (2)

EL 262. Foundations of Reading Techniques.

This fieldbased course focuses on competencies of pedagogy of teaching reading. Prerequisite: Elementary Block I and LI243. (3)

EL 263. Foundations of Language Arts Techniques.

This field-based course teaches competencies for teaching and learning the language arts (reading, writing, speaking, listening, viewing, and visual representation). Prerequisites: Elementary Block I and LI243. (2)

EL 274. Diversity in America's Schools.

Exploration of race, ethnicity, and gender issues in schooling today. (3)

EL 308. Diagnosis and Remediation of Learning Difficulties in Mathematics.

Designed specifically to help teachers learn to use a diagnostic and prescriptive approach in teaching remedial mathematics. Prerequisite: MA 118. (3)

EL 312. Multimedia in the Classroom.

This class will provide an in-depth look at the use of existing multimedia technology and software as they relate to teaching and learning. Hardware includes CD-ROM, DVD, laserdisc, and multimedia computers. Prerequisite: EL 210. (3)

EL 321. Using the Internet in the Classroom.

This class will provide an in-depth look at the use of the Internet, World Wide Web, and e-mail as they relate to teaching and learning in the classroom. Prerequisite: EL 210. (3)

EL 350. Elementary Block III: Field Experience.

Integration of appropriate field experiences with course work taken in Elementary Block III. (3)

EL 351. Teaching Science in the Elementary School.

This field-based course focuses on understanding the elementary science program and related methods and materials. Prerequisites: Elementary Block II, BS118, and BS218 or PH218. (2)

EL 352. Teaching Social Studies in the Elementary School.

This field-based course focuses on understanding the elementary social studies program and related methods and materials. Prerequisite: Elementary Block II, US105 or US107, PS103, EC101 and UI308. (1)

EL 353. Techniques of Teaching Elementary Mathematics.

This field-based course focuses on understanding the elementary mathematics program and related methods and materials. Prerequisite: Elementary Block II, MA118, and MA318 or MA418. (2)

EL 354. Corrective Reading Instruction.

This fieldbased course teaches the use of literacy assessment techniques to enhance teachers' ability to plan appropriate literacy experiences. Prerequisite: Elementary Block II. (3)

EL 355. Reading Study Strategies and Skills.

This fieldbased course teaches strategies for the development of communication arts and enhances students' ability to apply these strategies. Prerequisite: Elementary Block II. (2)

EL 453. Student Teaching Experience I.

Professional practicum requiring demonstration of MoSTEP Quality Indicators in school settings. Under the direction of cooperating teachers and university supervisors. (6) Prerequisite: In good standing in Teacher Education Program, successful completion of MA418, PH218, UI318, PE309, and MoSTEP Quality Indicators 1, 2, 4, 5, 6, 7, and 9 at the "Meets" level.

EL 454. Student Teaching Experience II.

Intensive professional practicum requiring superior demonstration of MoSTEP Quality Indicators in school settings. Under the direction of cooperating teachers and university supervisors. (6) Prerequisite: In good standing in Teacher Education Program. Successful completion of MA418, PH218, UI318, PE309, and Student Teaching Experience I (EL453). Satisfactory MoSTEP Portfolio which demonstrates that all ten (1-10) MoStep Quality Indicators have been accomplished at the "Meets" level.

EL 455. Student Teaching Experience I.

Professional practicum requiring demonstration of MoSTEP Quality Indicators in school settings. Under the direction of cooperating teachers and university supervisors. (8) Prerequisite: In good standing in Teacher Education Program, successful completion of MA418, PH218, UI318, PE309, and MoSTEP Quality Indicators 1, 2, 4, 5, 6, 7, and 9 at the "Meets" level. See University Studies (UI) listings for description of: UI 347. *Living in a Global Society*. (3)

Engineering Physics (EP)

EP 100. Physics & Engineering Concepts.

An introduction to the fields of physics and engineering, including methods of analysis and computer applications packages: word processing, spreadsheets, Math-Cad. Eightweek course. Fall only. Pre or corequisites: MA 133; MA 134; or equivalent. (1)

EP 260. Circuit Analysis I.

Direct-current circuits; circuit elements; Kirchoff's laws; mesh and nodal analysis; network theorems; natural, forced, and complete circuit response. Spring only. Prerequisites: PH 231/031; MA 240. (3)

EP 261. Engineering Mechanics Statics.

Bodies in equilibrium. Vectors and vector algebra; forces, moments, and couples; equivalent force systems; frictional forces; structural analysis; distributed forces and properties of surfaces. Fall only. Prerequisite: PH 230/030. Corequisite: MA 240. (3)

EP 262. Engineering Mechanics Dynamics.

Bodies in accelerated motion. Kinematics and dynamics of particles; work and energy; impulse and momentum; kinetics and dynamics of rigid bodies; mechanical vibrations. Spring only. Prerequisite: EP 261. (3)

EP 265. Circuit Analysis II.

Steady-state AC circuits; AC power; polyphase circuits; complex frequency; frequency response; magnetically-coupled circuits; two-port networks; Laplace transforms; and Fourier analysis. Fall odd years. Prerequisite: EP 260. (3)

EP 305. Digital and Analog System Design.

Logic circuit analysis and design; analog circuits including op-amp applications, analog to digital converters, and data acquisition systems. Students are expected to design and construct several projects. One lecture and two 2-hour labs. Spring only. Prerequisites: PH 121 or PH 231 or equivalent. (3)

EP 310. Microcomputer Interfacing.

Introduction to microprocessors and microcomputers; computer hardware and software; interfacing microcomputers for data acquisition in scientific experiments; use of microcomputers in digital control systems. One lecture and two 2-hour labs. Fall only. Prerequisite: EP 305. (3)

EP 342. Electronic Circuits I.

Diodes and applications; bipolar junction transistors (BJT); BJT amplifiers; smallsignal models; frequency response; feedback; operational amplifiers; active filters; oscillators. Two hours lecture, two hours lab weekly. Spring only. Prerequisite: PH 121/021 or PH 231/031. (3)

EP 352. Electronic Circuits II.

Physics, biasing, and smallsignal models of JFET's and MOSFET's; power amplifiers. Emphasizes design problems in electronic circuits. Two hours lecture, two hours lab weekly. Fall even years. Prerequisites: EP 342. (3)

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Southeast Missouri State University 2003-04

EP 361. Thermal Analysis.

Thermodynamic laws and processes; heat transmission; kinetic theory. Applications to heat engines, turbines, refrigeration, and heat exchangers. Fall even years. Prerequisites: PH 231/031; MA 245. (3)

EP 372. Signals and Systems.

Analysis and design methods for continuous-time and discrete-time systems including signal models, Fourier series and transform, Laplace transforms, discrete Fourier transform, Z-transform, digital filtering, and the Fast Fourier Transform (FFT) algorithm. Fall odd years. Prerequisites: EP 260; MA 350. (3)

EP 374. Control Systems.

Control theory of electrical, mechanical, and electromechanical systems; system elements; system equations and models; system excitation and response; frequency, time, and state space analysis of linear systems. Spring even years. Prerequisite: EP 372. (3)

EP 411-413. Industrial Internship in Physics.

A supervised learning and work experience in applied physics which enhances the student's understanding of the applications of physical principles to problems in academic and industrial environments. On demand. (1-3)

EP 460. Measurements and Instrumentation.

Techniques of measurement; energy conversion, sensors and transducers; principles and operation of instruments for measurement; data acquisition and processing; automatic control and control elements. On demand. Prerequisites: PH 231/031; MA 245. (3)

EP 461. Computer Applications.

Use of computers for the solution of physics and engineering problems in mechanics, thermodynamics, electromagnetics, modern physics, applied optics, and selected problems in quantum mechanics. Programming involves Fortran, Turbo Basic, Matlab and Mathcad. Spring even years. Prerequisites: PH 231/031; MA 245; MA 334. (3)

EP 462. Materials Science.

The solid state; structure of solids; mechanical, chemical, thermal, electrical, magnetic and optical properties of materials; behavior of materials in engineering applications. Spring odd years. Prerequisites: PH 121/021 or PH 231/031; CH 185. (3)

EP 480. Capstone Design I.

Each student designs, builds, and tests a simple engineering project. Lectures are given on ethics, profession-

alism, safety, and economic considerations. Fall only. Corequisite: PH 345. (1)

EP 481. Capstone Design II.

Student teams complete an engineering design project. Emphasizes design prototyping, testing, evaluation, and documentation. Time management, group dynamics, teamwork, ethics, and economics. Spring only. Prerequisite: EP 480. (3)

English (EN)

EN 001. Writing Portfolio.

A non-credit forum for undergraduate English B.A. majors (Literature and Writing) to complete the portfolio requirement of that degree program. Students will finalize revisions of the documents they have been accumulating throughout their undergraduate careers. (0)

EN 099. Writing Skills Workshop.

In-class workshop and individual tutorials in written communication. Students who do not earn a grade of 'C' or better are given "no credit" and must repeat the course. For students who score below requisite level on University Placement Test. (3)

EN 100. English Composition.

Focus on techniques of effective written expression. Prerequisite: EN 099 or TL 110 or appropriate score on University Placement Test. Pre or corequisite: TL 105 or appropriate score on University Placement Test. (3)

EN 115. Experiencing English Language and American Culture.

As an immersion program of the English language and American culture, this is an elective course limited to English as a Second Language (ESL) students. The participants will share a residence for one semester with an American roommate. (1)

EN 140. Rhetoric and Critical Thinking.

Focus on effective written expression in the context of a liberal education; emphasis upon critical thinking and the research paper. Prerequisite: EN 100 or advanced placement. (University Studies course) (3)

EN 190. Writing and the Environment.

Focus on effective written expression, with particular emphasis on environmental issues; emphasis upon critical thinking and the research paper. All students must complete a servicelearning project. (University Studies course) (3)

EN 201. Writing About Literature.

Focuses primarily on the writing process within the academic discipline of literature. Emphasis on various critical theories of reading and their application to the writing process as well as to research in the field of English studies at the undergraduate level. Prerequisite: EN 140. (3)

EN 230. Intermediate Composition.

Workshop/tutorial for students achieving less than a 'B' in freshman composition or intending to repeat the 75-hour writing competency test. Applicable to the Teacher Education composition requirement. Prerequisite: EN 140. (3)

EN 275. Introduction to Creative Writing.

Theory and practice in various forms of poetry and short fiction. Prerequisite: EN 140. (3)

EN 300. Professional Written Communication.

Problemsolving and writing skills for business/professions/industry/science pertaining to interviews, resumes, reports, proposals and letters. Prerequisite: EN 140. (3)

EN 301. Writing for Science and Technology.

Practice in design and writing of technical and scientific literature, such as abstracts, lab notebooks, feasibility studies, research proposals, and reports for journals and conferences. Prerequisite: EN 140. Pre or corequisite: EN 105 or appropriate score on University Placement Test. (3)

EN 311. Literary Manuscript Editing Practicum

A skills course for students who wish to study and practice the proofreading and copyediting of manuscripts which will include literary magazines, independent-press novels and poetry collections, memos, brochures, newsletters, and mass-media articles. (3)

EN 345-347. Independent Study in English.

Study of topics not included in the basic curriculum. (1-3)

EN 375. Intermediate Creative Writing.

For undergraduates who desire to improve their imaginative writing in fiction and poetry. In addition to special problems assigned, students will complete a portfolio of their work. (3)

EN 376. Advanced Composition.

Writing technique in stylistics, expository forms, analyses and criticism. Rhetorical emphasis on writer and audience. Prerequisites: EN 140; any 200-level literature course. (3)

EN 378. Grammars of English.

Traditional and modern American grammar and usage. Prerequisites: EN 140; any 200-level literature course. (3)

EN 379. Composition in the Secondary School.

Reviews current composition theory; emphasis on examining student's writing processes and on practical matters of high school composition instruction: design, evaluation, and sequencing of assignments. Prerequisites: EN 140; any 200-level literature course. Fall only. (3)

EN 380. An Analysis of Writing Skills in the Elementary School.

Studies types of children's writings, evaluation techniques, and teacher's role in (1) identifying and developing children's writing readiness; (2) introducing children to writing; and (3) motivating children to write. Prerequisites: EN 140; any 200 level literature course. (3)

EN 381. Language Acquisition.

Introduction to theories of language acquisition, stages in language development, a thorough description of the language of children, and methods of evaluating and extending children's language skills. Prerequisites: EN 140; any 200-level literature course. (3)

EN 385. Literature for the Secondary Classroom.

Investigation of successful application of literary theory in the secondary school through the use of multicultural literature, with emphasis on instructional practice that engages learners in critical response to all literary genres. Spring only. (3)

EN 435. Internship in English.

Practical experience in writing in a professional organization. Prerequisites: English major; 75 hours; 9 hours in major option; cumulative GPA of 2.75; major GPA of 3.0. (3)

EN 470 (EN 573). Advanced Creative Writing: Poetry.

For undergraduate students who wish to create imaginative writing in poetry, including open form, the formal poem, and the prose poem. In addition to workshop sessions and special problems assigned in class, at least eight imaginative works in poetry must be completed during the term. Prerequisites: EN 140 or equivalent; EN 275 or consent of instructor; any 200-level literature course except LI 243. (3)

EN 478 (EN 574). Advanced Creative Writing: Fiction.

201 *Environmental Science (EV)*

Southeast Missouri State University 2003-04

For undergraduate students who wish to create imaginative writing in fiction, including traditional and experimental short stories, novels, and drama. In addition to workshop sessions and special problems assigned in class, at least two imaginative works in fiction must be completed during the term. Prerequisites: EN 140 or equivalent; EN 275 or consent of instructor; any 200-level literature course except LI 243. (3)

EN 486. Sociolinguistics.

Study of language in context, particularly dialects, bilingualism, multilingualism, speech communities, genderlects, and regional/social variations as they relate to linguistic variables. On-campus course, which is also a synchronically interactive telecommunications course. Computer literacy and email access required. Spring only. (3)

EN 515. Writing the Teleplay.

A study of the principles and practice of writing for television. Prerequisites: EN 140; any 200-level literature course. (3)

EN 535. Rhetorical Theory and Written Discourse.

Historical survey of rhetorical theory (Aristotle to the moderns), with emphasis on critical examination of texts. Prerequisites: EN 140; any 200-level literature course. (3)

EN 550. Style in Writing.

Theory and practice of style in written expression, analyzing styles of writers representing various periods and types of writing; focus on the development of style in the student's own writing. Prerequisites: EN 140; any 200-level literature course. (3)

EN 580. Computers In Composition Instruction.

Provides students with hands-on experience in using computers in teaching writing. Includes work with E-mail and the internet. Assists in development of class activities and exercises. Prerequisites: EN 140; any 200-level literature course. (3)

See University Studies (UI) listings for descriptions of:

UI 303. The Female Experience. (3)

UI 406. Transforming the Female Experience. (3)

UI 500. History of the English Language. (3)

UI 501. Principles of Language. (3)

Environmental Science (EV)

EV 201. Environmental Science Seminar.

Consideration of topical environmental issues. Required for environmental science majors; to be taken in sophomore year. Meets concurrently with EV 401. Prerequisites: Minimum of 12 hours in the natural sciences, and sophomore status. (1)

EV 344 (Cross-listed as EC 344). Environmental Economics.

Application of economic theory to problems faced by environmental managers and policy makers. Prerequisites: MA 134; EC 101 or EC 215. (3)

EV 350 (Cross-listed as CH 350). Environmental Chemistry.

A study of the sources, reactions, transport, and fate of chemical entities in the air, water, and soil environment as well as their effects on human health and the environment. Prerequisites: CH 234 or CH 343, or consent of instructor. (3)

EV 365 (Cross-listed as GO 365). Environmental Soil Science.

An investigation of the physical, chemical, mineralogical and microbiological features of soils and an analysis of best land use. Three lectures, one two-hour laboratory and one field trip. Prerequisites: MA 134; CH 186. (4)

EV 401. Environmental Science Seminar.

Consideration of topical environmental issues. Required for environmental science majors; to be taken in senior year. Meets concurrently with EV 201. Prerequisites: EV 201, minimum of 30 hours in the natural sciences, and senior status. (1)

EV 443 (Cross-listed as BI 443). Epidemiology.

Introduction to basic concepts, methods and applications of infectious disease, chronic disease and environmental epidemiology focused on epidemiological reasoning processes. Three lectures. Prerequisites: BI 200; MA 134. (3)

EV 453 (Cross-listed as BI 453). Occupational Health.

Introduction to the factors influencing occupational incidents and the adverse interactions of environmental and occupational chemical/physical agents with

humans. Prerequisites: Junior standing; CH 181 or CH 185. (3)

EV 454 (Cross-listed as BI 454). Risk Assessment Applications.

Introduction to concepts, terminology, methods, and applications of qualitative and quantitative health and ecological risk assessment and risk communication. Prerequisites: Junior Standing; CH 181 or CH 185; MA 134. (3)

EV 455 (Cross-listed as BI 455). Industrial Hygiene.

The study of chemical and physical hazards in the occupational environment and the methods used for their evaluation and control. Prerequisites: Junior standing; BI 200; CH 186; MA 134. (3)

EV 460 (Cross-listed as BI 460). Introduction to Toxicology.

Introduction to the fundamental principles of toxicology, toxic agents, toxicity testing, mechanisms of toxicity, toxic effects, sources of exposure, and applications of toxicology. Prerequisites: Junior standing; BI 200; ZO 200; CH 186. (3)

EV 471-473. Topics: Environmental Science.

Special topics in environmental science typically unavailable in the departmental curriculum. May be taken more than once. Prerequisites: EV 201; consent of instructor. (1-3)

EV 475. Readings: Environmental Science.

Consideration in depth of subject matter ordinarily unavailable in the departmental curriculum through reading and discussion of assigned material. May be taken more than once. Prerequisites: EV 201; consent of instructor and permission of the program director. (2)

EV 481-483. Internship in Environmental Science.

A supervised experiential learning opportunity in environmental science which enhances the student's comprehension of applied environmental concepts and skills. May be taken more than once. Prerequisites: EV 201; internship learning site must exhibit a demonstrated relationship to the student's major; approval of program internship coordinator. (1-3)

EV 491-493. Research in Environmental Science.

Original individual research on an environmental science problem of interest to the student. May be taken more than once. Prerequisites: EV 201; consent of instructor and permission of program director. (1-3)

EV 551. Hazardous Materials Assessments.

Introduction to the performance of investigative and remedial activities at hazardous waste sites. Three-hour lecture and one mandatory field exercise. Prerequisites: CH 185; CH 186; EV/BI 455; or permission of instructor. (3)

See University Studies (UI) listings for descriptions of: UI 387. **Environmental Law and Public Policy.** (3)

Exceptional Child (EX)

EX 200. Introduction to Exceptional Children.

Investigates historical/legal development, library and internet resources, general characteristics and educational needs of categories served, and teacher certification requirements. (3)

EX 201. Assessment of the Exceptional Child.

Introduction to educational measurement and the appraisal process used in Missouri schools for identification of pupils with disabilities. Prerequisite: EX200; Corequisite: Block II, EX202. (3)

EX 202. Techniques of Teaching the Exceptional Child I.

Application of assessment/evaluation information in the development and implementation of Individualized Educational Programs for pupils with disabilities. Prerequisite EX200; Corequisite: Block II, EX201. (2)

EX 220. Introduction to Mental Retardation.

Overview of definition, identification, classification, and etiology of mental retardation. Pre or corequisite: EX 200 or consent of instructor. (2)

EX 230. Introduction to Learning Disabilities.

Study of background, definition, etiology, characteristics and educational considerations for the learning disabled. Pre or corequisite: EX200 or consent of instructor. (2)

EX 240. Introduction to Behavior Disorders.

Overview of definition, identification, classification, and etiology of emotional/behavioral disorders. Pre- or corequisite: EX200 or consent of instructor. (2)

EX 273 Introduction to Mild/Moderate Cross-Categorical.

An overview of the field of cross-categorical special education, and K-12 students who are placed in cross-categorical settings. Pre- or corequisite: EX 200 or consent of instructor. (3)

EX 302. Language Development of Exceptional Children.

Overview of atypical language development; problems in acquisition of language skills birth through school-age; management of speech/language problems by teachers. Prerequisite: Block II or consent of instructor. (2)

EX 304. Behavior Management.

Theoretical background and rationale for managing student behavior. Emphasizes practical application of respondent, operant and social learning principles. Prerequisite: Block II. (3)

EX 305. Teaching Strategies and Career Awareness for Mildly Handicapped Adolescents.

Emphasis on program alternatives and methods for teaching adolescents with mild disabilities enrolled in secondary school programs. Prerequisite: Block II. (3)

EX 307. The Parent and the Exceptional Child.

Emphasizes role of teachers of exceptional children as parent partners. Stresses methods for collaborating with parents, strategies for accessing community resources. Prerequisite: EX200. (3)

EX 309. Exceptional Child Education Field Experience Block IIIA.

Integration of appropriately designed field experiences commensurate with exceptional child coursework taken in Block IIIA. Prerequisites: Blocks I, II, and III. (3)

EX 313. Implementing and Evaluating Interventions in Early Childhood Special Education.

Study of curriculum concerns and evaluation methods for working with families and young children with disabilities. (3)

EX 323. Techniques of Teaching Individuals with Mental Retardation.

Focuses on appropriate activities and teaching strategies to facilitate learning by individuals with mental retardation. Emphasis on practical application of skills. Prerequisites: EX 220 and Block II. (2)

EX 333. Techniques of Teaching the Learning Disabled.

Presentation of various instructional procedures and methods for teaching students with learning disabilities, emphasizing practical application of skills. EX230 and Block II. (2)

EX 343. Teaching Individuals with Emotional/Behavior

Disorders. An in-depth study of the competencies and skills needed to teach individuals with emotional/behavior disorders. Prerequisites: EX 240 and Block II. (2)

EX 373. Techniques of Teaching the Mild/Moderate Cross-Categorical.

Methods and materials needed in teaching students with mild/moderate disabilities K-12 in cross-categorical settings will be studied. Academic, perceptual, cognitive, pre-vocational, and social skills will be emphasized. Prerequisite: EX 273. (3)

EX 390. Psychology and Education of the Exceptional Child.

Characteristics and education of exceptional children, including mental retardation; learning disabilities; behavior disorders; visual, hearing, speech language, physical impairment; gifted. (3)

EX 422. Student Teaching with the Mentally Handicapped.

Intensive professional practicum requiring superior demonstration of MoSTEP Quality Indicators in school settings. Under the direction of cooperating teachers and university supervisors. (6) Prerequisite: In good standing in Teacher Education Program. Successful completion of Student Teaching Experience I (EL455, EX428, EX438, EX448, or EX478). Satisfactory MoSTEP Portfolio which demonstrates that all ten (1-10) MoSTEP Quality Indicators have been accomplished at the "Meets" level.

EX 428. Student Teaching with Mentally Handicapped.

Professional practicum requiring demonstration of MoSTEP Quality Indicators in school settings. Under the direction of cooperating teachers and university supervisors. (8) Prerequisite: In good standing in Teacher Education program, successful completion of MoSTEP Quality Indicators 1, 2, 4, 5, 6, 7, and 9 at the "Meets" level.

EX 432. Student Teaching with the Learning Disabled.

Intensive professional practicum requiring superior demonstration of MoSTEP Quality Indicators in school settings. Under the direction of cooperating teachers and university supervisors. (6) Prerequisite: In good standing in Teacher Education Program. Successful completion of Student Teaching Experience I (EL455,

EX428, EX438, EX448, or EX478). Satisfactory MoSTEP Portfolio which demonstrates that all ten (1-10) MoSTEP Quality Indicators have been accomplished at the "Meets" level.

EX 438. Student Teaching with the Learning Disabled.

Professional practicum requiring demonstration of MoSTEP Quality Indicators in school settings. Under the direction of cooperating teachers and university supervisors. (8) Prerequisite: In good standing in Teacher Education Program, successful completion of MoSTEP Quality Indicators 1, 2, 4, 5, 6, 7, and 9 at the "Meets" level.

EX 442. Student Teaching with the Behaviorally Disordered.

Intensive professional practicum requiring superior demonstration of MoSTEP Quality Indicators in school settings. Under the direction of cooperating teachers and university supervisors. (6) Prerequisite: In good standing in Teacher Education Program. Successful completion of Student Teaching Experience I (EL455, EX428, EX438, EX448, or EX478). Satisfactory MoSTEP Portfolio which demonstrates that all ten (1-10) MoSTEP Quality Indicators have been accomplished at the "Meets" level.

EX 448. Student Teaching with the Behaviorally Disordered.

Professional practicum requiring demonstration of MoSTEP Quality Indicators in school settings. Under the direction of cooperating teachers and university supervisors. (8) Prerequisite: In good standing in Teacher Education Program, successful completion of MoSTEP Quality Indicators 1, 2, 4, 5, 6, 7, and 9 at the "Meets" level.

EX 472. Student Teaching with the Mild/Moderate Cross-Categorical.

Intensive professional practicum requiring superior demonstration of MoSTEP Quality Indicators in school settings. Under the direction of cooperating teachers and university supervisors. (6) Prerequisite: In good standing in Teacher Education Program. Successful completion of Student Teaching Experience I (EL455, EX428, EX438, EX448, or EX478). Satisfactory MoSTEP Portfolio which demonstrates that all ten (1-10) MoSTEP Quality Indicators have been accomplished at the "Meets" level.

EX 478. Student Teaching with Mild/Moderate Cross-Categorical.

Professional practicum requiring demonstration of MoSTEP Quality Indicators in school settings. Under the direction of cooperating teachers and university supervisors. (8) Prerequisite: In good standing in Teacher Education Program, successful completion of MoSTEP Quality Indicators 1, 2, 4, 5, 6, 7, and 9 at the "Meets" level.

EX 484-486. Independent Study in Exceptional Children.

Directed individual study of problems and special topics in exceptional child education. Open only to students pursuing the B.S. in Exceptional Child Education degree. (1-3)

EX 514. Practicum in Early Childhood Special Education.

Clinical/classroom experience in selection of instructional goals, objectives, teaching strategies, evaluation techniques for children with disabilities birth through five years. Prerequisites: Consent of instructor. (3)

EX 562. Nonverbal Language Development.

This course will prepare students to work with individuals across cultures who are at the non-verbal language development stage. Prerequisite: EX390 or EX200. (3)

Family Economics And Management (FE)

FE 303. Management of Family Resources.

Study of basic management with emphasis on application to management of family resources and constraints in achieving value-oriented goals. (3)

FE 313. Family Resource Management Practicum.

Applying theoretical knowledge of management to personal and family life in clinical settings. (2)

FE 514. Family Financial Management.

Financial planning and decision making with emphasis on credit, insurance, investments, home ownership, estate planning. (3)

See University Studies (UI) listings for description of UI 355 Consumer and the Market. (3)

Finance (FI)

FI 260. Personal Finance.

Study of personal financial decisions including investments, real estate, insurance, personal taxes, estate planning, tax shelters and financial planning. (This course is not applicable on Accounting or Finance majors.) (3)

FI 351. Principles of Insurance.

Survey course covering general principles of insurance. Prerequisite: Junior standing. (3)

FI 361. Financial Management.

Financial structure and problems of modern business corporations. Prerequisites: AC 222, EC 225, with a minimum grade of 'C'; junior standing. (3)

FI 362. Advanced Financial Management.

Emphasis is placed on the examination of the financial policies of corporations pertaining to dividend policy, capital structure, and investment. Prerequisites: FI 361 with a minimum grade of 'C' ; QM 257 with a minimum grade of 'C'. (3)

FI 363. Small Business Finance.

Emphasis is on financial problems facing the small business. Such problems include funding, working capital management, and capital budgeting. Prerequisite: FI 361 with a minimum grade of 'C'. (3)

FI 364. Modern Financial Institutions.

Comprehensive survey of the role of each of the major financial institutions in our economy. Prerequisite: FI 361 with a minimum grade of 'C'. (3)

FI 365. (FI 341) Real Estate Principles and Practices.

Study of the nature of real estate and its ownership. The course is a survey of real estate topics that includes fundamental principles of real estate investment, appraisal, mortgage finance, brokerage and development. Prerequisites: FI 361 with a minimum grade of 'C'; Junior standing. (3)

FI 368. Investments.

First course in investments. Provides information on planning an investment program, selection of securities, growth stocks and related topics. Prerequisite: QM 257 with a minimum grade of 'C'. (3)

FI 468. Portfolio Seminar.

Examination of the concepts relating to modern portfolio theory. Topics include EMH, risk, portfolio perfor-

mance, and related topics. Prerequisite: FI 368 with a minimum grade of 'C'. (3)

FI 473. Internship in Finance.

A supervised learning and work experience in finance which enhances finance courses taken on campus. On demand. (3)

FI 475. Futures Seminar.

Fundamentals, strategies, and applications of agricultural and financial futures contracts and markets. Prerequisites: Senior standing and FI 368 with a minimum grade of 'C' or consent of department chairperson. (3)

FI 480. Financial Policy.

A case course that examines the complex issues of establishing financial policy for organizations, i.e., appropriate capital structure, dividend policy, etc. Prerequisites: FI 362 with a minimum grade of 'C'; senior standing. (3)

FI 481-483. Problems in Finance.

Directed study of special problems in finance through seminars, workshops, forums, etc. On demand. (1-3)

FI 491-493. Independent Study in Finance.

Intensive study of special problems related to finance. (1-3)

FI 540. (FI 440) International Finance.

An examination of the operations and financial strategies of multinational firms within a global environment. Prerequisites: FI 361 with a minimum grade of 'C'; senior standing. (3)

Food And Nutrition (FN)

FN 150. Perspectives on Food Services and Hospitality Management.

An introduction to management opportunities in food service and hospitality organizations, internal operation, travel and tourism, and other career options. Overview of career requirements, potentials, and constraints. (1)

FN 205. Selection and Preparation of Foods.

Basic principles in the culinary arts including food selection, recipe utilization, and food production in a lecture and laboratory setting. (3)

FN 235. Nutrition for Health.

This course examines, analyzes, and evaluates the relationships between the science of nutrition, health, and well-being. (3)

FN 255. Nutrition I.

The foundations of human nutrition based on the principles of chemistry and molecular biology. Prerequisite: CH 181/001/081 or CH 185/005/085 or consent of instructor. (3)

FN 260. Sanitation in the Food Service and Hospitality Industry.

Personnel selection and training principles are related to sound sanitation policies, practices, and procedures in the foodservice and hospitality industry. Foodservice sanitation certification is available through the National Restaurant Association. Prerequisites: FN 150; or consent of instructor. (3)

FN 270. Hotel and Resort Operations.

Introduction and overview of guest services, operations of front and back offices, systems interaction, and guest experience in hotel and resort organizations. Prerequisites: FN 150 or GG 125 or consent of instructor. (3)

FN 320. Advanced Food Preparation.

The application of food science principles and their effects on product quality, recipe development, nutritive value and current assessment techniques. (4)

FN 325. Hospitality Law.

Legal ramifications of operating a hospitality organization emphasizing loss prevention, regulatory agencies, the employer's responsibility to guests and employees. (3)

FN 340. Professional Dietetic Seminar.

Critical analysis of career options in dietetics and the impact of legislation, professional ethics, and standards on current dietetic practice/procedures. Prerequisite: FN 235 or FN 255. (1)

FN 355. Lifespan Nutrition.

A study of nutrition principles related to various stages in the life cycle. Prerequisites: FN 235; CH 185; CH 186. (3)

FN 370. Nutrition Assessment.

Demonstration and use of methodologies assessing food and nutrition behaviors and status of individuals and groups in clinical and community settings. Prerequisite: FN 235 and/or FN 255. (3)

FN 406. Hospitality and Institution Administration.

Food service systems management concepts, tools, and functions are used to meet organizational goals through effective leadership and problem solving applications. Prerequisites: FN 205; FN 320; or consent of instructor. (3)

FN 416. Quantity Food Production.

Menu planning preparation, sanitation and service in a quantity production environment. One 2 hour lecture and two 2-hour lab. Prerequisites: FN 205; FN 320; FN 406; or consent of instructor. (4)

FN 420. Management by Menu.

To plan successful ethnic menus that incorporate costing, evaluation, analysis, food management software, and production efficiency in the planning process. (3)

FN 425. Health, Nutrition and Safety of the Young Child.

Essentials of health, nutrition and safety as applied to the well-being of the child from conception through age eight. (3)

FN 440. Procurement in Hospitality and Foodservice Operations.

A systems approach to hospitality and foodservice procurement including needs assessment, value analysis, product selection, specification, receiving, storage and distribution. Budgetary, legal, and ethical issues of purchasing are explored from a managerial perspective. Prerequisite: FN 150. (3)

FN 473. Internship in the Foodservice Environment.

A career-related work experience in Foodservice Management. The internship focuses on skill development in an environment that allows application of principles and concepts previously acquired in the classroom. Prerequisites: FN 150; FN 205; FN 235; FN 260; FN 406; FN 416; FN 440; 75 hours completed; 2.5 cumulative GPA and 2.5 GPA in major. (4)

FN 474. Internship in the Hospitality Environment.

A career-related work experience in Hospitality Management. The internship focuses on skill development in an environment that allows application of principles and concepts previously acquired in the classroom. Prerequisites: FN 150; FN 205; FN 235; FN 260; FN 406; FN 416; FN 440; 75 hours completed; 2.5 cumulative GPA and 2.5 GPA in major. (4)

FN 502. Nutrition II.

207 *Foreign Languages (FL)*

Southeast Missouri State University 2003-04

Study of metabolism of proteins, fats and carbohydrates, stressing the action and interaction of nutrients within the human body. Prerequisite: FN 235; FN 355; BS 114/014; CH 181/081/001; CH 234. (3)

FN 503. Medical Nutrition Therapy I.

Part one of the in-depth study of pathophysiology and the principles of medical nutrition therapy for various disease states. Three hours lecture and 2 hours lab. Prerequisites: FN 235 and/or FN 255; FN 355; FN 502; BS 113/114; CH 234 or permission of instructor. (4)

FN 504. Medical Nutrition Therapy II.

Part two of the in-depth study of pathophysiology and the principles of medical nutrition therapy for various disease states. One hour lecture and 6 hours clinical rotation. Prerequisite: FN 503 or consent of instructor. (4)

FN 515. Financial and Economic Aspects of Foodservice and Hospitality Management.

A practical introduction to the financial practices and procedures in the contemporary economy applied to foodservice and hospitality institutions. Prerequisites: AC 220, FN 406, FN 440, MA 134 or consent of instructor. (3)

FN 525. Nutrition Counseling.

Principles of nutrition counseling theories, behavior change models, approaches for nutrition counseling, skill development and application in nutrition counseling setting. (3)

FN 530. Implications for Nutrition and Exercise Science: Pathophysiology.

An in-depth examination of nutrition and exercise and their relationship to pathophysiology. Prerequisites: FN 502; HL 331; or consent of instructor.

FN 540. Community Nutrition.

Fundamentals of nutritional care and delivery in community programs. A special focus on cultural food patterns, nutrition education assessment and meeting community needs on local, state and federal levels. Prerequisites: FN 235 or FN 255; HE 520. (3)

Foreign Languages (FL)

FL 205. Art of French Cinema.

A study of artistic elements of French cinema through critical examination of directors, themes and techniques. In English; no knowledge of French required.

Prerequisite: EN 100 or equivalent (University Studies course) (3)

FL 310. Romance Linguistics.

Introduces major languages descended from Latin and sketches development, structure and status of French, Spanish, Italian, Portuguese, Romanian. Prerequisite: Consent of instructor. (3)

FL 400. Practicum in Foreign Languages.

Applied and theoretical study of foreign language teaching in which students are paired with and supervised by faculty members. Prerequisite: Consent of instructor. (3)

FL 410. Independent Study in Foreign Languages.

For senior French, German or Spanish majors. Prerequisite: Consent of department chairperson and college dean. (3)

Forensic Science (FS)

FS 550. Crime Laboratory I: Microscopy.

Introduction to the techniques of forensic microscopy in the analysis of physical evidence. Four lab hours. Prerequisite: CH 344 or consent of instructor. (2)

FS 552. Crime Laboratory II: Blood and Fluids.

Introduction to the techniques of forensic serology in the analysis of biological evidence. Four hour lab. Prerequisite: CH 344 or consent of instructor. (2)

French (FR)

FR 001. French Exit Exam.

All majors are required to enroll in this non-credit-bearing exam during their senior year. At the time of the exam, students must present their portfolio containing documents they have been accumulating in their major throughout their undergraduate career. The course number FR 001 will appear on the Degree Audit. Prerequisite: Students must have completed all coursework in French or be in their last year of completing the coursework. (0)

FR 100. French Language and Culture I.

Acquisition of an appreciation of the culture of French-speaking peoples and study of speaking, understanding,

reading, and writing French. (University Studies course) (3)

FR 120. French Language and Culture II.

Continued study of the culture of French-speaking peoples through the practice of speaking, understanding, reading, and writing French. Prerequisite: FR 100 or equivalent. (University Studies course) (3)

FR 200. French Language and Culture III.

Continued study of French language and culture. Cultural conversational, and structural activities leading to increased proficiency and cross-cultural awareness. Prerequisite: FR 120 or equivalent. (University Studies course) (3)

FR 220. French Literature.

Designed to develop ability to read French literary texts; to acquaint students with a selection of major French authors; to introduce basic concepts of literary analysis; to increase students' ability to speak and understand French through class discussions in French. Prerequisite: FR 200. (University Studies course) (3)

FR 301. Intermediate French Composition.

Review of the fundamentals of grammar; stylistic analysis of famous authors; free composition. Explication de textes. Prerequisite: FR 220. (3)

FR 302. Experiencing French Language and Culture.

Sharing a residence hall (one semester) with an international, native French-speaking student. Prerequisites: Limited to non-native, French-speaking students concurrently enrolled in a French class (200-level or above) living with native French-speaking roommate in designated residence hall; cum. GPA 2.0 or better. (1)

FR 305. Conversational French.

Practice in spoken language; prepared talks based on contemporary French periodicals and famous short stories; free discussion of current topics. Prerequisite: FR 220. (3)

FR 306. Contemporary France.

Study in recent social and cultural issues and events in France (discussion in French). Materials include current French periodicals, slides and tapes. Prerequisite: FR 220. (3)

FR 310. Survey of French Literature I.

From earliest writings through the eighteenth century. Prerequisite: FR 220. (3)

FR 311. Survey of French Literature II.

From 1800 to present. Prerequisite: FR 220. (3)

FR 315. Commercial French.

Review of correct written expression, letter style, preparation of business transactions, and the economic structure of France. Prerequisite: FR 220. (3)

FR 320. French Pronunciation and Phonetics.

Detailed study of French vowel and consonant sounds, rhythm and intonation: intensive practice in hearing and pronouncing the sounds of French. Prerequisite: FR 220. (3)

FR 330. French Grammar.

Review of the elements of French grammar and study of the essential structures of the language. Prerequisite: FR 220. (3)

FR 402. Independent Study in French.

Advanced-level study of language, culture, or literature for French majors. May be repeated once for credit. Prerequisites: FR 220; consent of department. (3)

FR 405. French Advanced Conversation.

Fourth year level conversation course centered on subjects of topical interests to students. Prerequisite: FR 305 or consent of instructor. (3)

FR 410. Introduction to the French Novel.

Prose fiction from the neo-classical period to the non-conventional trends of contemporary writers. Prerequisite: FR 220. (3)

FR 415. Seventeenth Century French Literature.

Study of masterpieces composed during the French Classical period. Emphasis on the dramas of Corneille, Racine and Moliere. Prerequisite: FR 220. (3)

FR 420. Eighteenth Century French Literature.

Presentation of major eighteenth century texts. Concentration on works of Montesquieu, Voltaire, Rousseau and Diderot. Prerequisite: FR 220. (3)

FR 425. Nineteenth Century French Literature.

French prose and poetry in the century of romanticism, realism, naturalism and symbolism. Prerequisite: FR 220. (3)

FR 430. Twentieth Century French Literature.

Study of the major trends of French literature from World War I to the present. Prerequisite: FR 220. (3)

FR 495. Foreign Language Internship in French.

Work experience using French in a professional setting in a business or agency. Prerequisite: French major; Jr. standing with 24 hours in French; 2.5 cumulative GPA

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and 3.0 in French; approval of Department of Foreign Languages; a level of proficiency in French appropriate to the professional setting as evaluated by the departmental assessment procedures. (3)

FR 530. French Advanced Composition and Conversation.

Review of French syntax; regular essay assignments and discussions in French on given topics. Prerequisite: Undergraduate French major or minor or consent of instructor. (3)

See University Studies (UI) listings for description of:

UI 311. **Masterpieces of the French Novel.** (3)

UI 362. **Contemporary French Culture.** (3)

Geography (GG)

GG 116 (Cross-listed as HL 116 & RC 116).

Special Topics in Health and Leisure.

Special topics in health and leisure unavailable in the department curriculum. May be repeated for credit on different topics. (1-3)

GG 126. Introduction to Travel.

Introduction to the travel industry, examining the history, philosophy, terminology, demographics, behavior, structure, organization, marketing, planning, and financing of tourism. (3)

GG 140. The Physical Landscape: A Spatial Analysis.

A study, utilizing scientific processes, of the physical landscape, interrelationships among its components, and important relationships that exist with humans. Two lectures, one 2-hour lab per week. (University Studies course) (3)

GG 150. Peoples and Places of the World.

Spatial treatment of ethnic diversity of the world's macro cultures (e.g. Europe) and contemporary social problems associated with economic development. (University Studies course) (3)

GG 160. American Peoples and Civilization.

A study of contributions of peoples from diverse lands on the development of American civilization and its evolution from colonial origins to the present. (University Studies course) (3)

GG 170. European Peoples and Civilization.

An examination of the geographical expansion of distinctive peoples and regional cultures of Europe.

Themes include hearth areas, patterns of diffusion, areas of distribution, and conflict between cultures. (University Studies course) (3)

GG 180. Cultural Geography.

Study of the interrelationship of the components of human cultures, i.e., belief, social and material systems. Emphasis on social geographic principles and issues. (University Studies course) (3)

GG 181. Cultural Heritage Travel: An Introduction.

An overview of the concepts of cultural and heritage travel and a description of the history of the travel industry. Two Saturday field trips required. (3)

GG 201. World Landmarks and Travel Destinations.

Study of travel destinations, national and international, both physical and cultural. Examination of travel trends and, e.g., cruises. (3)

GG 303 (Cross-listed as HL/RC 303). Research Methods.

Overview of research methods in health, recreation, and tourism with emphasis on research design, instrument construction, and basic data management. Prerequisites: GG 126, HL 111, or RC 140; Health Management, Recreation, or Geography major. (3)

GG 316 (Cross-listed as HL 316 & RC 316).

Special Topics in Health and Leisure.

Special topics in health and leisure unavailable in the department curriculum. May be repeated for credit on different topics. (1-3)

GG 320. Political Geography.

Analysis of ways in which man organizes space for political purpose. Case studies of interactions of geographical areas and political processes. (3)

GG 330. Urban Geography.

Cities of the world, their types, functions, and distribution with special emphasis on urban areas of the U.S. (3)

GG 350. Travel Planning and Development.

Integrated and sustainable development approach to travel planning explored through lectures, discussions, and case studies at the national, regional, and community levels. (3)

GG 474. Cultural Heritage Exploration and Interpretation.

Study of travel potentials of cultural museums, archaeological sites, folk crafts, ethnic groups, and historical landscapes. (3)

GG 497. Geography Internship.

Internship with approved professionals in selected Geotourism programs. Experience in all phases of Geotourism agency operation. Prerequisites: Senior standing; completion of all degree requirements; 2.50 GPA in major; 2.25 cumulative GPA; faculty advisor's approval. (12)

GG 561-563. Advanced Topics in Geography.

Lectures, discussions, laboratories, field trips and assigned readings in various fields of geography. Topics vary. May be taken more than once. (1-3)

See University Studies (UI) listings for descriptions of:

UI 302. **Westward Movement: Development of American Regional Cultures.** (3)

UI 307. **Economic Geography.** (3)

UI 308. **Cultural and Physical Landscapes of the World: A Geographical Analysis.** (3)

UI 401. **American Cultural Landscapes.** (3)

UI 417. **Images of Britain.** (3)

Geosciences (GO)

GO 110. Physical Geology.

Comprehensive introduction to geology; earth materials, internal and external processes, time, resources and environmental hazards. Two lectures, one lab per week. (3)

GO 150/050. Earth Science: Environmental Hazards.

An examination of Earth's systems, how they work, and how they relate to people, with emphasis on resulting natural and man-made hazards to society. Two lectures, one lab per week. (University Studies course) (3)

GO 220. Meteorology.

Basic principles of atmosphere, air mass analysis, and fundamental laws governing weather forecasting. (3)

GO 225. Rocks and Minerals.

An introduction to rockforming minerals and common rocks with emphasis placed on hand-specimen identification and classification. One lecture, two labs per week. Prerequisites: CH 181/001/081 or CH 185/005/085; GO 110. (3)

GO 291-293. Earth Science Field Course.

Intensive one, two, or three week field course. On-site investigations and studies along pre-planned routes of areas classically significant to earth science. May be taken more than once as elective credit. Does not count as an elective on the major in Geoscience. Prerequisite: consent of instructor. (1-3)

GO 305. Environmental Geoscience.

Natural earth systems and cycles, natural hazards, mineral and energy resources, waste disposal, and environmental planning. Prerequisite: GO 110. (3)

GO 310. Field Methods.

The methodology and instrumentation used in basic geologic field techniques. Prerequisites: GO 225; MA 133; MA 134; UI 373. (1)

GO 315. Paleontology.

Morphology, systematics, and paleoecology of important invertebrate, vertebrate, and plant fossil groups. Two lectures, one lab per week. Prerequisite: BS 108 or BO 200 or ZO 200. (3)

GO 320. Oceanography.

Introduction to historical, physical, chemical, geological, and biological oceanography, including man's interaction with the ocean. Prerequisite: GO 220. (3)

GO 335. Sedimentology and Stratigraphy.

Modes of occurrence, composition, texture, origin, and natural history of sedimentary rocks; interpretation of the stratigraphic record. Two lectures, two labs per week. Prerequisites: GO 225; UI 373. (4)

GO 340. Remote Sensing.

An introduction to the principles/concepts of remote sensing, its applications, and its significance in today's world. Two lectures, one lab per week. Prerequisites: GO 220; GO 225; IS 175; MA 133; MA 134. (3)

GO 345. Mineralogy and Petrology.

Study of basic concepts of classical and x-ray crystallography, phase equilibria, and igneous/metamorphic petrology. Two lectures, two labs per week. Prerequisites: CH 186; GO 225; MA 133; MA 134. (4)

GO 350. Geology Field Camp.

Summer geology field camp; application of geologic skills and knowledge in the field environment. An additional course fee is charged. Four five-day weeks. Prerequisites: GO 310; GO 225. (4)

GO 351. Six-Week Geology Field Camp.

A comprehensive field course consisting of two weeks in southeastern Missouri, emphasizing basic field skills,

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and four weeks in southwestern Utah, emphasizing more advanced field techniques and regional geology. Runs concurrently with GO 310 and GO 350. Credit cannot be received for GO 351 and either GO 310 or GO 350. Prerequisites: GO 225; MA 133; MA 134; UI 373. (6)

GO 355. Earth Resources.

Study of mineral, energy, and water resources of Earth. Two lectures, one lab per week. Prerequisite: GO 225. (3)

GO 360. Structural Geology.

Introduction to the mechanics of deformation and structures in naturally deformed rocks. Laboratory emphasizes description and problemsolving methodologies of outcrop and map-scale structures. One lecture, two labs per week. Prerequisites: MA 133; MA 134; UI 373. (3)

GO 365. Environmental Soil Science.

An investigation of the physical, chemical, mineralogical and microbiological features of soils and an analysis of best land use. Three lectures, one two-hour laboratory and one field trip. Prerequisites: MA 134; CH 186. (4)

GO 400. Geomorphology.

Systematic study of surface features of the earth, their form, nature, origin and development, and changes they are undergoing. Two lectures, one lab per week. Prerequisite: UI 373 or consent of instructor. (3)

GO 405. Field Methods in Environmental Geoscience.

Environmental investigations using techniques and instrumentation representative of industry practice. One lecture, two labs per week.. (3)

GO 410. Optical Mineralogy and Petrography.

Application of the petrographic microscope to identification of non-opaque minerals. Introduction to petrographic methods and study of rocks in thin section. Two 3-hour labs per week. Prerequisite: GO 225. (3)

GO 415. Introduction to Geophysics.

Application of geology and physics to study the interior of the earth and development of its surface features. Prerequisites: GO 110 or consent of instructor; MA 140; PH 120/020 or PH 230/030. (3)

GO 416. Applied Geophysics.

Utilization of various geophysical prospecting techniques to explore the upper few kilometers of the earth for natural resources and environmental and engineering problems. Two lectures, one lab per week. Prerequisite:

GO 110; MA 140; PH 121/021 or PH 231/031; or consent of instructor. (3)

GO 420. Global Environmental Change.

An interdisciplinary introduction to the interrelationships among geologic, biologic, and anthropologic processes and their effects on the environment throughout geologic history. Emphasizing the dimensions of climatic change and how our perceptions can affect our thinking and reactions to these issues. Prerequisite: Twenty hours total in geology, chemistry, physics, math, soils, or biology; or consent of instructor. (3)

GO 430. Ore Deposits.

Origin, character and distribution of metallic ore deposits. Ore mineral identification by optical and microchemical techniques. Two lectures, one lab per week. Prerequisites: GO 225; GO 360. Corequisite: GO 345. (3)

GO 433. Advanced Igneous Petrology.

Detailed examination of magma physics and chemistry, and the role of igneous processes in crust and mantle evolution. Prerequisite: GO 345 or consent of instructor. (3)

GO 435. Predictive Stratigraphy.

Application of techniques used for mapping, interpolation, and simulation of subsurface distribution of sedimentary rocks using surface and subsurface data. Two lectures, one lab per week. Prerequisites: GO 335; MA 140; or consent of instructor. (3)

GO 440. Petroleum Geology.

Principles of petroleum geology; origin, occurrence and exploration. Two lectures, one lab per week. Prerequisites: GO 335; GO 360. (3)

GO 445. Geographic Information Systems (GIS).

An introduction to the theory, methods, and applications of GIS for spatial data analysis. Two lectures; one lab per week. Prerequisites: IS 175; GO 340; MA 223 or SO 242; consent of instructor. (3)

GO 446. Advanced Geoprocessing.

Application of higher-order digital processing techniques for the analysis of remotely sensed imagery, and manipulation and interpretation of spatial data using more sophisticated GIS methods. Two lectures, one 2-hour lab per week. Prerequisites: GO 340; GO 445; or consent of instructor. (3)

GO 455. Clay Mineralogy.

Description of clay minerals common in geologic deposits and soil. Identification of clay minerals using x-

ray diffraction, differential thermal analysis, and chemical methods. Prerequisites: CH 186, GO 225; or consent of instructor. (3)

GO 460. Environmental Hydrology.

An introduction to the interrelationships between the environment and the occurrence, distribution, movement, and chemistry of water. Emphasizing the influence of geologic processes and materials on surface water, groundwater, and fluid and contaminant transport through the vadose zone. Two lectures; one lab per week. Prerequisites: GO 110; MA 134; or consent of instructor. (3)

GO 465. Low Temperature Geochemistry.

Development of selected chemical principles common to the study of sediments and their pore waters. Two lectures, one lab per week. Prerequisites: GO 345; CH 186; or consent of instructor. (3)

GO 471-473. Special Topics.

Lectures, laboratories, field trips, and seminars on topics in the geosciences not covered by the regular curriculum. Prerequisite: Consent of instructor. (1-3)

GO 481-483. Independent Study.

Supervised individual study in a selected field of the geosciences. Prerequisite: Consent of department chairperson and supervising faculty member. (1-3)

GO 486-488. Internship.

A supervised learning and work experience which contributes to the individual student's major program of study and career objectives. Arranged with supervising faculty member. May be taken more than once. Prerequisites: 15 hours in major; 3.0 GPA. (1-3)

GO 491-493. Undergraduate Research.

Supervised individual research on a problem of interest to the student. Prerequisite: Consent of department chairperson and supervising faculty member. (1-3)

GO 495. Senior Research and Seminar.

Research and professional presentations on an approved subject; the senior capstone course. Should be taken in the last year of study in the major. (2)

GO 555. Soil Classification and Resource Management.

Classification of soils in terms of their physical, chemical, and mineralogical composition. Interpretation of soils in terms of proper land use, with special attention to soil erosion. Prerequisites: AO 215 or GO 110; CH 181/001/081 or CH 185/005/085. (3)

GO 561-563. Advanced Topics in Geology.

Lectures, discussions, labs, field trips and assigned readings in various fields of geology. May be taken more than once. Topics vary. Prerequisite: Consent of instructor. (1-3)

See University Studies (UI) listings for descriptions of:

UI 318. **Earth Science: A Process Approach.** (3)

UI 372. **Earthquakes and Society.** (3)

UI 373 **Earth and Life Through Time.** (3)

UI 416. **Planetary Exploration: From Galileo to the Present and Beyond.** (3)

NOTE: Courses are offered during the summer at the Gulf Coast Research Laboratory in Ocean Springs, Mississippi. For further information, contact the Department of Geosciences.

German (GN)

GN 001. German Exit Exam.

All majors are required to enroll in this non-credit-bearing exam during their senior year. At the time of the exam, students must present their portfolio containing documents they have been accumulating in their major throughout their undergraduate career. The course number GN 001 will appear on the Degree Audit. Prerequisite: Students must have completed all coursework in German or be in their last year of completing the coursework. (0)

GN 100. German Language and Culture I.

Acquisition of an appreciation of the culture of German-speaking peoples and study of speaking, understanding, reading, and writing German. (University Studies course) (3)

GN 120. German Language and Culture II.

Continued study of the culture of German-speaking peoples through the practice of speaking, understanding, reading, and writing German. Prerequisite: GN 100 or equivalent. (University Studies course) (3)

GN 200. German Language and Culture III.

Continued study of German language and culture. Cultural, conversational and structural activities leading to increased proficiency and cross-cultural awareness. Prerequisite: GN 120 or equivalent. (University Studies course) (3)

GN 220. German Literature.

Designed to develop the ability to read German literary texts; to acquaint students with major German authors; to introduce basic concepts of literary analysis; and to

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increase the ability to speak and understand German through class discussions in German. Prerequisite: GN 200. (University Studies course) (3)

GN 301. Intermediate German Composition.

Designed to develop fluency in written composition. Prerequisite: GN 220. (3)

GN 302. Experiencing German Language and Culture.

Sharing a residence hall (one semester) with an international, native German-speaking student. Prerequisites: Limited to non-native, German-speaking students concurrently enrolled in a German class (200-level or above) living with native German-speaking roommate in designated residence hall; cum. GPA 2.0 or better. (1)

GN 305. Conversational German.

Designed to increase fluency and comprehension in the spoken language. Prerequisite: GN 220. (3)

GN 310. Survey of German Literature I.

Overview of the major periods and authors of German literature from the Middle Ages to the mid 1700's. Prerequisite: GN 220. (3)

GN 311. Survey of German Literature II.

Overview of the major periods and authors of German literature from the mid 1700's to the present. Prerequisite: GN 220. (3)

GN 315. Commercial German.

Review of correct written expression, letter style, preparation of business transactions, and the economic structure of Germany. Prerequisite: GN 220. (3)

GN 320. German Culture and Civilization.

Survey of the cultural background of German-speaking countries: Germany, Austria, and Switzerland. Prerequisite: GN 220. (3)

GN 330. German Grammar.

Review of the elements of German grammar and study of the essential structures of the language. Prerequisite: GN 220. (3)

GN 340. German Phonetics and Pronunciation.

Study of German vowel and consonant sounds, stress, rhythm, intonation; intensive practice in hearing and pronouncing the sounds of German. Prerequisite: GN 220. (3)

GN 375. History of German Film.

A study of the history of German film from 1919 to the present, including the Weimar Republic, the Third

Reich, Post War East and West Germany, and contemporary developments. Prerequisite: GN 220; consent of department. (3)

GN 402. Independent Study in German.

Advanced level study of language, culture, or literature for German majors. May be repeated once for credit. Prerequisites: GN 220; consent of department. (3)

GN 424. Twentieth-Century German Literature.

A study of German literature during the Weimar Republic, the Third Reich, the Post War Period and the late twentieth century. Prerequisite: GN220 or consent of instructor. (3)

GN 440. Special Topics: German.

A course designed to permit flexibility. Topic will vary according to a list of 18 potential topics. May be repeated for credit. Prerequisite: GN 220. (3)

GN 495. Foreign Language Internship in German.

Work experience using German in a professional setting in a business or agency. Prerequisite: Declared German major; Junior standing, with completion of a minimum of 24 credit hours in German; 2.5 GPA and 3.0 in German; a level of proficiency in German appropriate to the professional setting as evaluated by the departmental assessment procedures; approval of the Department of Foreign Languages. (3)

Health And Leisure (HL)

HL 111. Introduction to Health Management.

Overview of job opportunities, professional organizations, and professional preparation in health management (athletic training, fitness/sports medicine, and health promotion). (3)

HL 116 (Cross-listed as RC 116). Special Topics in Health and Leisure.

Special topics in health and leisure unavailable in the department curriculum. May be repeated for credit on different topics. (1-3)

HL 120. Health Perspectives.

An examination of worldwide health issues with emphasis on the impact that individual health behavior decisions have on personal, society, and world well-being. (University Studies course) (3)

HL 210. Health and Safety.

The nine areas of health competencies with emphasis on personal health and safety. Required for K-12 certification. (2)

HL 231. Fitness Conditioning.

Application of fitness conditioning principles for individuals. Emphasis on experiencing a directed exercise program. Prerequisite: Health Management major. (3)

HL 251. Introduction to Athletic Injuries.

Current methods in prevention, recognition, and management of physical activity and sport related injuries. (3)

HL 260. Health Promotion Practicum.

Observation and limited participation as a para-professional in local health promotion programs. Six hours field work; one hour seminar per week. Prerequisites: HL 111; HL 120; sophomore standing; Health Management major or departmental minor. (3)

HL 261. Exercise Science Practicum.

Observation and limited participation as a para-professional in local exercise science programs. Six hours field work, one hour seminar per week. Prerequisites: HL 111; HL 120; sophomore standing; Health Management major or departmental minor. (3)

HL 263. Sports Injury Management.

An overview of prevention, assessment, and rehabilitation of the most common conditions found in athletic training environment. Prerequisite: HL 251; declared Health Management/Athletic Training option. (3)

HL 265. Therapeutic Modalities.

Exploration of the physical principles, physiological effects, indications, contraindications, safety precautions, operating procedures of therapeutic modalities. Three lectures and one 2-hour lab. Prerequisites: HL 321; PH 106. (4)

HL 280. Basic Skills in Athletic Training.

The study and treatment of actual athletic injuries under the guidance of physicians and National Athletic Trainers' Association certified athletic trainers. (1)

HL 281. Practicum in Athletic Training I.

Introduction to the clinical application of the NATA Competency Checklist. Emergency medicine; basic taping/ wrapping; protective/supportive padding and splinting. Must be taken concurrently with HL 263. Prerequisite: Health Management/Athletic Training Option major. (1)

HL 282. Practicum in Athletic Training II.

Second competency experience for students in the Athletic Training Option. Specialty taping/wrapping; athletic/ orthopedic equipment fitting; therapeutic modality application. Must be taken concurrently with HL 321. Prerequisite: HL 281. (1)

HL 303 (Cross-listed as RC 303). Research Methods.

Overview of research methods in health and recreation with emphasis on research designs, instrument construction, and basic data management. Prerequisites: HL 111, or RC 140; Health Management or Recreation major. (3)

HL 306. Aging and Exercise.

The role of exercise in the aging process. Emphasis placed on the over 60 generation. Hands on experience provided. (3)

HL 310. Health Instruction.

Materials and procedures for teaching health in the school system. The course contains an in-the-school component. Prerequisite: HL 120 or equivalent. (3)

HL 312. Contemporary Drug Use.

Study of drug use and abuse emphasizing primary, secondary and tertiary prevention related to a physically active population. (3)

HL 316 (Cross-listed as RC 316). Special Topics in Health and Leisure.

Special topics in health and leisure unavailable in the department curriculum. May be repeated for credit on different topics. (1-3)

HL 320. Community Health.

A study of health issues and problems related to the community. Prerequisite: HL 120. (3)

HL 321. Advanced Injury Assessment I.

Study of athletic injury assessment principles and techniques at the advanced level. Specific areas include foot, ankle, lower leg, knee, hip, and shoulder. Prerequisites: HL 263; HL 281. (3)

HL 322. Advanced Injury Assessment II.

Study of athletic injury assessment principles and techniques at the advanced level. Specific areas include elbow, wrist, hand, head, face, cervical spine, thoracic/ lumbar spine, abdomen, thorax, and gait/posture assessment. Prerequisites: HL 263; HL 281; HL 282; HL 321. (3)

HL 331/031. Exercise Physiology.

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Physiologic control of the human body during acute exercise, and adaptations to regular exercise stress. Emphasis on relationships among health, physical fitness, and exercise. Two hours lecture (HL 331), two hours lab (HL 031) must be taken concurrently. Prerequisites: BS 113/013; BS 114/014; CH 180 or CH 181/001/081; MA 134. Prerequisite or corequisite: HL 231. (3)

HL 332. Lifestyle Disease Risk Reduction.

Overview of the principles of epidemiology and lifestyle disease pathophysiology. Examination of the use of epidemiologic research to identify risk factors for disease. Prerequisite: BS 113/013; BS 114/014; HL 260 or HL 261. (3)

HL 345. Resistance Training Principles and Practices.

The scientific principles of resistance training and strength/power with emphasis on applications for improving health and performance. (3)

HL 346. Weight Management Principles and Practices.

The scientific principles of weight management with an emphasis on lifestyle modification for improving health. (3)

HL 361-363. Independent Study in Health and Leisure.

Directed individual study of special interest areas in health and leisure. (1-3)

HL 383. Practicum in Athletic Training III.

Third competency experience for students in the Athletic Training Option. Application of injury recognition/ evaluation techniques; advanced taping, wrapping/ padding. Must be taken concurrently with HL 322. Prerequisite: HL 282. (1)

HL 384. Practicum in Athletic Training IV.

Fourth competency experience for students in the Athletic Training option. Application of rehabilitation techniques; preparation for the NATA Certification Examination. Must be taken concurrently with HL 444. Prerequisite: HL 383. (1)

HL 431. Fitness Assessment and Exercise Programming.

Methods used in assessing fitness and in developing exercise programs to achieve optimal health. Prerequisite: HL 331/031. (4)

HL 432. Health Promotion Programs.

Exposure to the planning and implementation of health risk screenings and educational components of health promotion programs. Prerequisite: HL 332. (3)

HL 444. Rehabilitation of Sports Injury.

Study of rehabilitation principles and techniques used to safely return an athlete/patient to their sport activity, following injury. Prerequisite: HL 322; HL 331/031; HL 383. (3)

HL 460. Exercise Leadership.

Exercise training principles applied to a diversity of conditioning programs. Emphasis on exercise leadership, conditioning program development, legal liabilities, emergency procedures, and equipment. Prerequisite: HL 431. (3)

HL 471. Fitness Facility Administration.

Administrative considerations of fitness facilities. Standards and guidelines for facility planning and design, equipment, marketing, organization, and personnel considerations. Prerequisite: HL 331. (3)

HL 472. Administration of Athletic Training.

Administrative components of athletic training programs. Facility design; supply ordering, budget and inventory; insurance, personnel, educational, preseason physical examination considerations. Prerequisites: HL 251; HL 332; Athletic Training option of Health Management major. (3)

HL 480. Seminar in Athletic Training.

A capstone course addressing current prevention, assessment, and rehabilitation of the most common conditions found in an athletic training environment. (2)

HL 490. Program Planning and Evaluation.

Focus on planning, implementing and evaluating work-site health promotion programs. Prerequisite: HL 432. (3)

HL 498. Health Internship.

Internship with approved professionals in selected Health Management programs. Experience in all phases of a Health Management agency operation. Prerequisites: Senior standing; completion of all degree requirements; 2.50 GPA in the major; 2.25 cumulative GPA; faculty advisor's approval. (12)

HL 510. Health Concerns of Aging.

Health issues as they relate to the aging process. (3)

HL 531. Advanced Exercise Testing.

Development of knowledge and skills necessary to conduct exercise tests in clinical settings. Two hours lecture;

two hours lab. Prerequisites: HL 431 or consent of instructor. (3)

See University Studies (UI) listings for descriptions of:

UI 354. *Lifestyle Enhancement*. (3)

UI 412. *American Health Care*. (3)

Historic Preservation (HP)

HP 007. Professional Portfolio Review.

Historic Preservation majors are required to have a professional portfolio review after completion of the 30 credit hour Historic Preservation requirements. See advisor for details. (0)

HP 100. Introduction to Historic Preservation.

Survey of historic preservation in the U.S.; theory, philosophy, and methods of maintaining the culture of the past. (3)

HP 101-103. Topics in Historic Preservation.

Examination of specialized topics or issues in historic preservation. (1-3)

HP 200. Introduction to the Techniques of Local History.

Introduction to value, techniques and methods of local history for the preservationist. (3)

HP 300. Problems in Historic Preservation.

Problems in historic preservation that acquaint preservation students with a broad spectrum of academic/practical problems that complement professional training. Prerequisite: HP 100 or consent of instructor. (3)

HP 391-393. Independent Study in Historic Preservation.

Directed individual study of special topics in historic preservation. (1-3)

HP 405. Archives and Special Collections Management.

Theories, operational issues and their applications to the organization and administration of archives and special collections in public and private institutions. (3)

HP 407. Seminar in Preservation of Special Collections.

Techniques of conserving and preserving materials encountered in special collections. (3)

HP 410. Museum Studies.

History, development, theory, and role of museums. Survey of methods, practices and types of museums to acquaint students with the profession. Prerequisite: HP 100 or consent of instructor. (3)

HP 417. Problems in Applied Museum Studies.

Applied research course dealing exclusively with museum projects such as collections management, display and design, interpretation, museum management, and funding. (Two 1-hour lectures and one 2-hour lab.) (3)

HP 420. Historic Site Administration.

Study of the problems, techniques and administration of historic sites. Prerequisite: HP 100 or consent of the instructor. (3)

HP 425. Problems in Historic Site Administration.

Applied research course which deals exclusively with preservation projects such as survey, planning, historic districts, adaptive use and revolving funds. Prerequisite: HP 420. (3)

HP 450. Problems in Historic Preservation.

Projects in historic preservation that acquaint the student with a broad spectrum of academic/practical problems that complement professional training. (3)

HP 500-502. Historic Preservation Internship I, II, III.

Professional practicum requiring demonstration of Historic Preservation competency in appropriate settings under the direction of cooperating site administrators and a University coordinator. (3-9)

HP 551. Historic Architecture Field School.

Historic archeological survey and excavation; intensive instruction in recovery and documentation of cultural remains; public interpretation of an excavation; practice in archival research. (6)

HP 552. Historic Preservation Field School.

Intensive field experience in documenting and preserving the built environment and the historic landscape. (3)

HP 580. History of American Building Materials and Techniques.

Survey of architectural styles, building materials, and construction methods with a focus on the 18th and 19th centuries. Two lectures plus a three hour lab period weekly. (3)

HP 585. History of American Architecture.

The study of architectural history as material evidence of America's social, cultural, economic, and technological development. (3)

HP 588. Legal and Economic Principles of Historic Preservation.

A study of the legal and economic aspects in the procedures for locating, recording and preserving of American's historical, architectural and cultural resources. (3)

History, European (EH)**EH 362. (WH 362). Medieval History.**

From 476 to 1300. An examination of the rise and development of medieval Civilization from the late Classical Age to the time of Dante. (3)

EH 366. (WH 366). Age of the French Revolution and Napoleon: 1700-1815.

A study of Eighteenth Century European history with a special emphasis on the impact of the French Revolution and Napoleon. (3)

EH 370. (WH 370). Europe in the Twentieth Century, 1914-Present.

Two world wars and their effects, the rise of totalitarian states, Europe's changed position in the world, and efforts at European cooperation. (3)

EH 412. (WH 412). Age of Rome.

History of Rome: Roman Republic and Empire. (3)

EH 414. (WH 414). Tsarist Russia.

Survey of Russian history from earliest times to the end of the Nineteenth Century with special emphasis on Ivan the Terrible, Peter the Great and Catherine the Great. (3)

EH 416. (WH 416). Old England.

Survey of the development of English political, social and economic institutions to 1688. (3)

EH 418. (WH 418). Modern Britain.

Survey of British history and institutions from 1689 to the contemporary era. (3)

EH 514. (WH 514). History of Modern France.

The political, social, and cultural development of modern France. (3)

EH 516. (WH 516). History of Modern Germany.

The rise of the Prussian state. Germany in the Nineteenth and Twentieth Centuries. (3)

EH 518. (WH 518). History of Soviet Russia.

The 1917 revolution and analysis of the history and policies of the U.S.S.R. (3)

EH 527. (WH 527). Intellectual History of Europe.

Examination of intellectual and social history of Europe from the seventeenth century to the twentieth century. (3)

History, General (GH)**GH 007. BA Portfolio Review.**

Assesment experience required of all Bachelor of Arts-History major. (0)

GH 100. African Civilization.

A study of the development of African civilizations from ancient times to the present. (University Studies course) (3)

GH 110. Chinese Civilization.

A survey of the history of Chinese civilization from its inception in ancient times to the contemporary period. (University Studies course) (3)

GH 115. Ancient Greece and Rome.

A study of the development of ancient Greek and Roman Civilizations, their cultures, art, politics, and religious beliefs. (University Studies course) (3)

GH 125. Islamic Civilization.

A survey of the history of Islamic civilization from the time of Muhammad until the present. (University Studies course) (3)

GH 130. Latin American Civilization.

A survey of Latin American civilization from PreColumbian times to the present with emphasis on the mixture of cultures and the struggle for modernity, including an examination of cultural, social, economic and political forces which have shaped Latin American Civilization. (University Studies course) (3)

GH 301-303. Independent Study.

Directed individual study of special topics in general history. (1-3)

GH 315. Historiography.

Growth and development of historical writing, its methods and interpretations. (3)

GH 415. Senior Seminar in History.

Capstone course for the Bachelor of Arts in History, focusing upon the methods and tools of the historian, culminating in a public presentation of a major paper. (3)

GH 520. Techniques of Oral History.

Study and practice in designing and carrying out oral history projects. (3)

History, United States (US)

US 105. American History I.

A study of the history of the United States from the period of discovery to 1900. (University Studies course) (3)

US 107. American History II.

United States history from 1900 to the present. (University Studies course) (3)

US 200. Topics in American History.

Study of selected topics in American history. (1)

US 201. History of Missouri.

History of the state from earliest explorations to present. (3)

US 210. Women in American History.

Study of American history from colonial times to present, from perspective of women. (3)

US 220. History of American Folklore.

Study of the history, development, sources and traditions of American folklore. (3)

US 225. The History of the Vietnam War.

A study of the Vietnam War, with emphasis upon American involvement, 1945-75. (3)

US 350. Colonial America.

Colonial period through the American Revolution. (3)

US 352. New American Republic, 1789-1840.

A study of American political institutions, social systems, and cultural traditions from the ratification of the Federal Constitution to the antebellum era. (3)

US 354. Civil War Era 1840-1896.

A study of America as influenced by the Civil War, expansion, and imperialists of the period 1840-1896. (3)

US 356. Progressive America, 1896-1945.

Economic, diplomatic, political, and cultural developments from 1896 to 1945. (3)

US 358. Modern America, 1945-Present.

An analysis of American domestic and foreign policy, focusing on the role of the President since 1950. (3)

US 400. Topics in American History.

Study of selected topics in American history. (1)

US 420. African American Slavery.

A study of Africans in America, both slave and free, from 1619 to 1865. (3)

US 430. American South.

Survey of the economic, intellectual, political, and social development of the South from the colonial period to the present. (3)

US 507. Civil War Reconstruction.

Study of the social, economic, military and political aspects of the Civil War and Reconstruction periods of American history. (3)

US 509. American West.

Survey of the economics, political, cultural, social, and intellectual development of the western region of the United States from the earliest American involvement to the present. (3)

US 511. American Diplomacy.

Diplomatic affairs and foreign policy from the American Revolution to date. (3)

US 522. American Presidential History.

An examination of the presidents and the Presidency in terms of personality, institutional evolution and achievements in foreign and domestic policy from 1789-present. (3)

US 523. American Constitutional History.

Origins of the Constitution and a survey of its development to the present. (3)

US 525. American Urban History.

Study of the origins, growth, and historical influence of American cities from the colonial town to the modern metropolis. (3)

US 528. American Economic History.

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Study of the economic development of the U.S. in its historical perspective. (3)

US 529. History of American Labor.

Evolution of the American Labor movement to present. (3)

US 531. American Military History.

Study of changing relationships between civil/military authority of warfare and its impact upon democratic institutions. (3)

History, World (WH)

WH 101. (WH 205). Early European History.

From prehistoric man to 1715. (Designed for History majors and minors) (3)

WH 103. Modern European Civilization.

A survey of the history of European civilization from its inception in the Middle Ages to the contemporary period. (University Studies course) (3)

WH 200. Topics in World History.

Study of selected topics in world history. (1)

WH 400. Topics in World History.

Study of selected topics in world history. (1)

WH 410. Age of Greece.

Survey of ancient Greece from the Bronze Age through the period of Alexander the Great. (3)

WH 424. South Americas.

National period, beginning with independence movement of the early Nineteenth Century. Post-independence problems of the new republics, emphasizing Argentina, Brazil and Chile. (3)

WH 430. History of China and Japan.

Study of the history and culture of China and Japan, with special emphasis on Western influence on those nations. (3)

WH 440. Modern Middle East.

Investigation of the political, economic, social, religious, and cultural developments of the Middle East from Napoleon's invasion of Egypt in 1798 to the present. (3)

WH 508. Modern Britain I.

The cultural, social, and political development of Britain and its global empire from its origins to the Victorian Age, 1660-1830. (3)

WH 520. Latin American Colonial History.

Survey of the Iberian and Indian background to the voyages of discovery European conquest; establishment of imperial institutions, Bourbon reforms of the eighteenth century and the origins of independence. (3)

WH 524. History of Mexico.

Examination of modern Mexico from the wars of independence to the present with emphasis upon Santa Anna, Juarez, Maximilian, Porfirio Diaz, and the Mexican Republic. (3)

WH 550. The Atlantic World.

The political, social, economic and cultural history of the Atlantic world from 1492 to 1830. (3)

See University Studies (UI) listings for descriptions of:

UI 300. Drugs and Behavior. (3)

UI 304. The History and Culture of West Africa. (3)

UI 306. The Film as History and Literature. (3)

UI 312. Perspectives on the Present. (3)

UI 313. The African-American Experience. (3)

UI 320. The Modern Presidency. (3)

UI 414. The American Temper: Ideas in Conflict. (3)

UI 448. American Revolutionary Experience. (3)

UI 503. Age of Alexander the Great. (3)

Horticulture (HO)

HO 130. Ornamental Plants I.

The identification, nomenclature, classification, cultural requirements and landscape uses of ornamental trees, shrubs, vines, and herbaceous plants. Two, two-hour laboratories. Fall semesters. (2)

HO 230. Ornamental Plants II.

The identification, nomenclature, classification, cultural requirements and landscape uses of ornamental trees, shrubs, vines, and herbaceous plants. An extension of HO 130. Two, twohour laboratories. Spring semesters. Prerequisites: HO 130. (2)

HO 231. Plant Propagation.

Principles of controlled plant reproduction to perpetuate selected individuals or groups of plants of specific value to society. Two lectures; twohour lab. Prerequisite: AO 120/020 or BO 200. (3)

HO 330. Landscape Planting Design.

Theory of landscape design. The selection and placement of plants and other structural objects in the design for human use and enjoyment. Emphasis on the home, small industry and public sites. One lecture; two 2-hour labs. Prerequisite: HO 130. (3)

HO 341 (Cross-listed as AO 341). Vegetable Production.

Fundamental principles involved in the production of vegetable crops for wholesale or retail markets. Vegetable production in home gardens is also studied. Two hours lecture; two-hour lab. Prerequisite: AO 120/020 or BO 200. (3)

HO 342. Fruit Production.

Establishment, maintenance and marketing of commercial fruit crops adapted to this area. Home-garden fruit production. Two lectures; twohour lab. (3)

HO 350. Greenhouse Management.

Location, types, covering, environmental controls, costs, maintenance, and cultural practices. Three lectures; two-hour lab. Prerequisite: HO 231. (4)

HO 353. Bedding Plant Production.

Propagation, cultural requirements and marketing of foliage, flower and vegetable crops produced in greenhouses or other structures. Two lectures; two-hour lab. Prerequisite: HO 231. (3)

HO 355. Interior Landscaping.

Identification, selection, installation, maintenance and management of plants used in interior design. Two lectures; two-hour lab. (3)

HO 430 (Cross-listed as AO 430). Landscape and Turfgrass Management.

Establishing and maintaining plantings on athletic fields, golf courses, parks, residential and commercial grounds. Three lectures; two-hour lab. Prerequisite: AO 120/020 or BO 200. Spring semester only. (4)

HO 431. Nursery Production and Silviculture.

Field and container production of ornamental landscaping plants, Christmas-tree production, and small wood lot for entry. Three lectures; two-hour lab. Prerequisites: AO 120/020 or BO 200; HO 130. (4)

HO 530. Home Horticulture.

Horticulture as related to modern living. Designing and planting the home landscape including the fundamentals of establishing vegetable gardens, fruit orchards and vineyards. Plant identification, establishment and maintenance of ornamental trees, shrubs, vines, turf grasses,

ground covers and flowering plants. One lecture; two-hour lab. (2)

See University Studies (UI) listings for description of: UI 344. *Plants and Humanity*. (3)

Housing And Interior Design (HI)

HI 104. Housing and Interior Design.

The study of techniques, processes, materials and basic philosophies used by interior designers in the design of residential spaces. (3)

HI 214. Display Design.

Study of the components involved in the art of visual presentation. Students will participate in store display and technique within the community. Two lectures; one 2-hour studio. (3)

HI 220. Lighting and Interior Systems.

Overview of the conceptual nature and issues affecting lighting design and building support systems. Psychological and applied aspects of lighting. Calculations of recommended light levels using manufacturers' photometric data. Prerequisite: HI 104. (3)

HI 224. Design Illustration.

Graphic presentation techniques for interior design emphasizing architectural illustration and perspective drawing. Introduction to and exploration of markers and colored pencils on typical illustration surfaces. One 1-hour lecture and two 2-hour studios. Prerequisite: TG 100 or TG 120. (3)

HI 230. Residential Interior Design I.

Introduction to the mechanics of spatial analysis and design utilizing the design process. Graphic/verbal presentation of residential projects addressing work, social and private spaces. Solutions require product selection/support documentation. Two 1-hour lectures and one 2-hour studio. Prerequisites: CT 207; HI 220; HI 224; TG 100 or TG 120; or consent of instructor. (3)

HI 370. Materials and Cost Estimating.

A survey of interior materials and finishes utilized in interior design installations. Prerequisites: HI 230. (3)

HI 400. Architectural Rendering for Interior Design.

Exploration of advanced perspective drawing and rendering topics, specialty illustration media, and techniques used for presentation of design concepts. One 1-

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hour lecture and two 2-hour studios. Prerequisites: HI 224; TG 100 or TG 120. (3)

HI 411. Internship in Housing and Interior Design.

A career-related work experience in an area of the design industry with an opportunity to properly interface valuable professional experiences with the learning objectives in the student's major area of study. Prerequisites: 30 hours HI courses with a 3.0 GPA; 75 hours completed; 2.5 cumulative GPA. (3)

HI 420. Professional Practice in Interior Design.

The study of the techniques and processes employed by the interior designer in the establishment of professional relationships and practices. (3)

HI 430. Residential Interior Design II.

Techniques, materials, and issues involved in working with residential clients from the conceptual through the project presentation stages. Special emphasis on client and design compatibility. One 1-hour lecture and two 2-hour studios. Prerequisites: HI 370; HI 530; HI 532. (3)

HI 440. Contract Interior Design I.

Techniques/issues affecting the design of nonresidential environments. Projects emphasize barrier-free, life-safety, and building code constraints for small-scale commercial office settings. Formal presentation of concept materials/support documentation is required. One 1-hour lecture and two 2-hour studios. Prerequisites: HI 370; TG 322. (3)

HI 442. Contract Interior Design II.

Continuation of Contract Interior Design I, focusing on large-scale public spaces and specialty areas of contract design. In-depth coverage of advanced open-office design and national certification examination (NCIDQ) content. One 1-hour lecture and two 2-hour studios. Prerequisites: HI 430; HI 440; TG 322. (3)

HI 470. Interior Design Practicum.

Application of materials and methods involved in workroom and installation procedures as they relate to design installations. Field trips to workroom facilities and participation in on-site installations. One 1-hour lecture, two 2-hour studios. Prerequisites: HI 370; TG 320. (3)

HI 518. Environmental Design for Special Populations.

A study of the principles and theories relative to the design of effective environments for children, the elderly, and people with disabilities. (3)

HI 530. History of Furniture I.

A study of furniture styles from ancient Egypt through the Renaissance with emphasis on the economic, political, and social issues that affect the development of design. (3)

HI 532. History of Furniture II.

A study of furniture styles from the 17th century through the contemporary movement with emphasis on the economic, political, and social issues. Emphasis on France, England, and America. (3)

See University Studies (UI) listings for description of: UI 340. **Housing Perspectives.** (3)

Human Environmental Studies (HE)

HE 310-312. Independent Study in Human Environmental Studies.

Directed individual study of problems and special topics in human environmental studies. (1-3)

HE 317-320. Field Experience in Human Environmental Studies.

An intensive investigation or study of an individual system related to an area in human environmental studies on a selective basis. Prerequisite: 12 hours home economics courses. (1-4)

HE 505-508. Problems in Family & Consumer Sciences Education.

Directed study of special problems in family and consumer sciences education through seminars, workshops, forums, etc. (1-4)

HE 520. Techniques of Teaching Nutrition and Health Education.

Utilization of educational principles and theory for instructional planning, implementation, and evaluation for nutrition and health education. Prerequisites: FN 235 and/or FN 255; SC 105. (3)

See University Studies (UI) listings for description of: UI 343. **Transcultural Experience.** (3)

Industrial Education (IE)

IE 105. Problems in Vocational and Industrial Education.

Study of topics to improve classroom effectiveness of in-service vocational trade and technical teachers. Prerequisites: IE 193 or IE 593. (3)

IE 185. Fundamentals of Aeronautical Knowledge.

Theory of flight, dead reckoning and radio navigation, meteorology, radio phraseology, FFA regulations, use of flight computer and plotter. (3)

IE 186. Primary Flight.

Flight instruction with local firm and/or flight simulator. Approximately 20 flight hours. (1)

IE 188. Primary Flight.

See IE 186. Approximately 40 flight hours. (2)

IE 192. Selection and Organization of Subject Matter.

Development and evaluation of courses of study, objectives, content selection and arrangement, and preparation of job and assignment sheets. (3)

IE 193. Principles and Practices of Teaching Industrial Subjects.

Techniques of teaching vocational subjects and processes used to teach skills, including demonstrations, lectures, instruction sheets, and related audiovisual materials. (3)

IE 194. Guidance in Career & Technical Education.

Study of the purposes, assumptions and problems of vocational guidance. Investigation of individual inventories, occupational choice, job placement and evaluation. (3)

IE 195. Teaching Adults in Career & Technical Education.

Development of adult education; primarily the problems of and approaches used in interesting adults in continuing education. (3)

IE 196. Philosophy of Career & Technical Education.

Study of history, philosophy, definitions, certification, state plan, area vocational schools, state department

evaluations, advisory committees, facilities, funding and administration. (3)

IE 197. Coordination of Cooperative Education.

Organization and operation of cooperative programs, including advisory committees, classroom development of training stations, methods of instruction and student organizations. (3)

IE 301-303. Independent Study in Industrial Technology Education.

Investigation of concerns and studies not covered by scheduled classes. (1-3)

IE 334. Historical Restoration Methods and Techniques.

Overview of historical restoration methods and techniques. Identification and research related to the tools, materials and methods of a particular historical period. (3)

IE 335. Techniques of Historical Reconstruction.

Combined lecture/laboratory course where students restore portions of a structure or household items as originally made. (3)

IE 401. Technology Education Management.

Study of the design, development and management of technology education facilities and related equipment. Prerequisite: Acceptance to Teacher Education. (3)

IE 592. Selection and Organization of Subject Matter.

Study of terminology and philosophy of industrial education, objectives, analysis for development and evaluation of courses of study. (3)

IE 593. Principles and Practices of Technical Subjects.

A technical teacher training course designed to serve Trade, Technical and Health teachers. (3)

IE 594. Guidance in Career and Technical Education.

Problems, methods, and procedure involved in assisting individuals to choose, prepare for, enter, and become adjusted in their vocations. For teachers, counselors and employment service personnel. (3)

IE 595. Teaching Adults in Career and Technical Education.

Definition, importance, concepts, interests and abilities of adults, overcoming problem areas, methods of conducting classes, and role of the school system. (3)

IE 596. Philosophy of Career and Technical Education.

Introduction to foundations of career and technical education including history, philosophy, definitions, State Plan, and funding and federal acts. (3)

IE 597. Coordination of Cooperative Education.

Organization and operation of cooperative programs, including advisory committees, classroom, development of training stations, methods of instruction and student organizations. (3)

Industrial Management (IM)

IM 102. Technical Communication.

Practical aspects of preparing technical reports with emphasis on techniques of collecting and presenting technical and scientific data. Use of the microcomputer as it relates to preparing technical documents will also be covered. (3)

IM 211. Industrial Safety Supervision.

Introduces the development and supervision of a hazard control program. Includes development of safety attitudes, detection/correction of unsafe work conditions and legislation. Prerequisite: IM 102. (3)

IM 311. Statistical Process Control.

Data acquisition and analysis using quantitative techniques (sampling, probability, control charts, correlations, etc.) related to the management of quality assurance systems and/or quality improvement programs. Prerequisites: MA 134. (3)

IM 313. Facilities Planning.

Design and applications of physical facilities for manufacturing and productions including material flow through the facility. Prerequisites: IM 102 or consent of instructor; IM 315; TG 120. (3)

IM 315. Work Measurement.

Principles and practices of motion and time study including process charts, operation charts, motion summary, time standards, line balancing, work station redesign, and job evaluation. Prerequisite: IM 102. (3)

IM 317-319. Cooperative Industrial Internship.

Provides on-job experiences in area industries. Students register junior year for senior-year internship. For one summer or one semester. (39)

IM 411. Total Quality Assurance.

Examines the role(s) and application of quality concepts to modern industrial organizations. Topics include teamwork, continuous improvement, employee involvement, quality tools, ethics, and culture. Prerequisite: IM 102, IM 311 or consent of instructor. (3)

IM 417. (Cross-listed as MG 451). Manufacturing Resource Analysis.

Prediction of costs involved in manufacturing processes and systems. Students learn how to create effective production and inventory control applications throughout all production phases. Activities will include application of Enterprise Resource Planning (ERP) software. Prerequisite: IM 311. (3)

IM 419. Industrial Supervision.

fundamental processes and techniques needed by front-line supervisors to provide leadership in the modern industrial enterprise. Topics include leadership, motivation, communication, problem-solving, decision-making, and labor relations. Prerequisites: IM 211 or consent of instructor. (3)

Information Systems (IS)

IS 130. Visual Basic Programming I.

An introduction to the discipline of programming using the Visual Basic programming language in a Windows environment. Includes data types, control structures, arrays, functions and subroutines, properties, events methods, menus and dialog. Other topics as time permits. This course includes a lab component. Prerequisite: Placement in MA 134 or higher. (3)

IS 175. Information Systems I.

Concepts and applications of information systems for users of IS and for prospective developers of IS. Topics include concepts of IS, concepts and applications of spreadsheets, and an introduction to the Internet and to markup language. Two hours lecture; two hours lab. Prerequisites: MA 134 with minimum grade of 'C'. (3)

IS 235. Introduction to COBOL.

Fundamentals of structured computer programming using COBOL. Does not count towards a Computer Science or Applied Computer Science major. Prerequisites: MA 134 with 'C' or better; IS 130 with 'C' or better or equivalent prior programming experience. (3)

IS 266. Visual Basic for Programmers.

Introductory visual basic for experienced programmers. Includes data types, control structures, arrays, functions, subroutines, properties, events, methods, menus and dialog. Credit may not be received for both IS 130 and IS 266. Prerequisite: CS 265 with a "C" or better. (1)

IS 275. Information Systems II.

Continuation of the study of information systems organization, database and internet technology. Two hours lecture; two hours lab. Prerequisite: IS 175 with minimum grade of 'C.' (3)

IS 330. Visual Basic Programming II.

A continuation of I 130. Topics include database access, classes, internet applications, error handling, and active X controls. Prerequisites: IS 130 and IS 275, with minimum grades of 'C.' (3)

IS 445. (Cross-listed as CS 445). Application Systems Analysis and Design.

Provides an in depth understanding of the principles and techniques used in the analysis and design aspects of developing application systems. Apply techniques and tools to produce the system artifacts pertaining to analysis and design. Prerequisite: Junior standing; CS 300 or IS 275 with a minimum grade of 'C.' (3)

IS 465. Management Support Systems.

The composition and development of management support systems. Prerequisites: IS 275 with minimum grade of 'C.' (3)

IS 481-483. Problems in Information Systems.
(1-3)

International Education (IN)

IN 510. Introduction to Comparative Education.

An examination of schooling in different countries through contextual frameworks: philosophical and ideological; structural frameworks: social, cultural, economic, and political; and operational frameworks: pedagogical. (3)

IN 520. Issues in Comparative and International Education.

A cross-national examination of various historical, political, economic, cultural, and social issues affecting education in selected countries throughout the world. Prerequisite: IN 510 or graduate standing. (3)

IN 550. International Education Internship.

Intensive professional internship experience requiring demonstration of culturally appropriate intercultural education competencies. Prerequisites: EL 274; UI 347; IN 510; IN 520; or graduate standing. (3)

Japanese (JN)

JN101. Japanese I.

Fundamentals of the Japanese sound system, grammar, and vocabulary. Reading and writing of the two syllabaries. Introduction to Japanese culture. (3)

JN102. Japanese II.

A continuation of Japanese I. The course expands on the grammar and vocabulary of the earlier course. Practice in reading the syllabaries and kanji. (3)

Literature (LI)

LI 205. The Art of Film.

A study of the major artistic components of film and how those components are used to convey ideas or meanings. Prerequisite: EN 100. (University Studies course) (3)

LI 220. Fiction and The Human Experience.

A study of short stories and novels by significant writers past and present. Prerequisite: EN 100. (University Studies course) (3)

LI 221. Poetry and the Human Experience.

Focus on the elements of poetry and the techniques of interpretive reading in a survey of significant world poetry. Prerequisite: EN 100. (University Studies course) (3)

LI 222. Mythic Dimensions of Literature.

A study of mythology and of literature with mythological themes. Prerequisite: EN 100. (University Studies course) (3)

LI 243. Children's Literature.

Study of best forms of literature for children; development of criteria for judging children's books. Does not count for major or minor in English. Prerequisites: EN 100; EL 120. (University Studies course) (3)

LI 244. Literature for Early Childhood.

Study of literature written for the preschool-primary level child; development of criteria for judging these

225 Literature (LI)

Seventeenth-Century, Restoration and Eighteenth-Century dramatists, excluding Shakespeare. (3)

Seventeenth-Century, Restoration and Eighteenth-Century dramatists, excluding Shakespeare. (3)

books. Does not count for major or minor in English. Prerequisite: EN 100. (2)

LI 250. World English Literature.

A survey of the world's literature written in English, with emphasis on analyzing and writing about literature. Prerequisite: EN 100. (University Studies course.) (3)

LI 256. The Variety of Literature.

A survey of literature in all its variety—short stories, novels, poems and drama. Emphasis on reading, analysis, and writing about literature. Prerequisite: EN 100. (University Studies course) (3)

LI 260. English Literature I.

Beginnings-1798. Major English writing from BEOWULF to the pre-Romantic period, with attention to form, historical consideration, contents and literary types. Prerequisite: EN 100. Fall only. (3)

LI 261. English Literature II.

1798-present. Major English writings from the beginnings of the Romantic movement to present day, with attention to form, historical consideration, content and literary types. Prerequisite: EN 100. Spring only. (3)

LI 270. American Literature I.

Beginnings-1860. Important works of American writers. EN 100. Fall only. (3)

LI 271. American Literature II.

1860-present. Important works of American writers. Prerequisite: EN 100. Spring only. (3)

LI 301. Small Press Publishing.

Advanced study in editorial and mechanical aspects of producing a literary or general interest magazine. Prerequisite: Consent of instructor. (3)

LI 311. World Literature I.

Survey of significant literary voices from throughout the globe, including writers of fiction, poetry, and drama representing European, Asian, Middle Eastern, and African literary traditions. Begins with antiquity and ends around 1660. Fall only. (3)

LI 312. World Literature II.

Survey of significant literary voices from throughout the globe, including writers of fiction, poetry, and drama representing European, Asian, Middle Eastern, and African literary traditions. Begins around 1660 and continues to the present. Spring only. (3)

LI 320. African American Writers.

Studies fiction, poetry, drama, and nonfiction prose of major Black American writers of the past and present. For English and non-English majors. Prerequisites: EN 140; any 200-level literature course. (3)

LI 345-347. Independent Study in English.

Study of topics not included in the basic curriculum. Prerequisites: EN 140; any 200-level literature course. (13)

LI 350. Greek Drama.

Critical analysis of selected Greek plays and comparison with Roman and modern adaptations. Prerequisites: EN 140; any 200-level literature course. (3)

LI 360. Nature Writing.

A survey of nature writing from the late eighteenth century to the present, with practice in writing some of the forms studied. Prerequisites: EN 140; any 200-level literature course. (3)

LI 421. Cross-Cultural American Voices.

Studies in fiction, poetry, drama, film and nonfiction written by African American, Native American, Hispanic, Asian American, Jewish, feminist, gay, and other diverse voices. Prerequisites: EN 140; any 200-level literature course (excluding LI 243). (3)

LI 476. Early Twentieth-Century British Literature.

Representative fiction, poetry, and drama reflecting British and Irish literature. This course will focus primarily on modernist literature (1890's through the 1940's but will conclude with the mid-century's critique of modernism and with an exploration of how the modern is echoed in the postmodern). Prerequisites: EN 140 and any 200 level literature course. (3)

LI 510. Literature and the Bible.

Study of literature based on Biblical parallels and archetypes. Includes novels, stories, poems, and plays. Prerequisites: EN 140; any 200-level literature course. (3)

LI 525. English Drama Before 1800.

A study of English drama from Medieval, Sixteenth-Century, Seventeenth-Century, Restoration and Eighteenth-Century dramatists, excluding Shakespeare. (3)

LI 526. English Drama After 1800.

A study of English drama from the early nineteenth century to the present. (3)

LI 542. Literature for the Young Adult.

Survey of literature written for young adults (grades 7-12) with emphasis on literary analysis and evaluation of

literature and reading interests of young adults. Prerequisites: EN 140; any 200-level literature course. (3)

LI 552. Modern Drama.

Major dramatists from Ibsen to the present. Prerequisites: EN 140; any 200-level literature course. (3)

LI 560. Chaucer.

Chief works of Chaucer and his time. Prerequisites: Prerequisites: EN 140; any 200-level literature course. (3)

LI 565. Southern Literature.

Writers of the American South from Colonial days to the present, with emphasis on Faulkner, O'Connor, Warren, Welty and Wright. Prerequisites: EN 140; any 200-level literature course. (3)

LI 567. Major British Poets.

A historical survey of the major British poets, excluding Shakespeare. Prerequisites: EN 100; any 200-level literature course (except LI 243) or permission of instructor. (3)

LI 568. Nineteenth Century American Novel.

Beginnings to 1890. Includes Cooper, Hawthorne, Twain, Howells, and James. Prerequisites: EN 140; any 200-level literature course. (3)

LI 569. Classic American Novels of the 20th Century.

1890-1945. Emphasis on the climax of naturalism and the experimental novel of the Modern Tradition. Includes Crane, Dreiser, Fitzgerald and Hemingway. Prerequisites: EN 140; any 200-level literature course. (3)

LI 570. Modern and Contemporary American Novel.

1945-present. Includes Vonnegut, Roth, Barth, Tyler and Didion. Emphasis on techniques in fiction. Prerequisites: EN 140; any 200-level literature course. (3)

LI 571. Contemporary American Poetry.

Emphasis on critical interpretation of contemporary poetry. Prerequisites: EN 140; any 200-level literature course. (3)

LI 572. The Modern Essay.

A study of the informal or personal essay form; intensive reading of works by contemporary American and British essayists, and composition of original personal essays. Prerequisites: EN 140; any 200-level literature course. (3)

LI 574. Australian Literature.

A historical survey of Australian literature, focusing on major themes and important issues in its development. Prerequisites: EN 140; any 200-level literature course. (3)

LI 576. Cyberpunk Fiction as a Postmodern Genre.

For students who wish to study the social and cultural junctures created by American cyberpunk fiction. Examines relationships between technology and power, technology and socially-constructed identity, and technology and Enlightenment theory, while suggesting possibilities for both agency and resistance. (3)

LI 577. Studies in Early English Literature.

Focus on the study of early modern English literature from 1450-1785. Addresses issues, periods, or genre studies in the literature of England not addressed in the regular course listings. (3)

LI 578. Later English Literature.

Studies in Romantic, Victorian, Modern, or Contemporary literature: issue, period, or genre studies in British literature not addressed in the regular course listings. Topics will be announced when course is offered. (3)

LI 580. British Fiction Since the 18th Century.

Intensive reading of selected novels by writers judged to be most significant in the history of English fiction since the 18th century. Prerequisites: EN 140; any 200-level literature course. (3)

LI 581. World Novelists.

Intensive reading of selected novels by writers judged to be most significant in the history of the novel. Prerequisites: EN 140; any 200-level literature course. (3)

LI 582. Topics in Literature.

Directed study of special topics in literature. Prerequisites: EN 140; any 200-level literature course; or consent of instructor. (3)

LI 587. Women and Madness.

A thematic study of the madwoman in autobiography, literature, drama, opera, and film. Various literary/cultural motifs of female madness ranging from Greek drama to contemporary writings will be examined. (3)
See University Studies (UI) listings for description of:
UI 306. **The Film as History and Literature.** (3)
UI 313. **African-American Literature and History.** (3)
UI 326. **Australian Culture.** (3)
UI 341. **Victorian Studies.** (3)
UI 332. **Images of Women in Literature.** (3)
UI 431. **Shakespeare's Tragedies & the Human Condition.** (3)

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UI 432. Shakespeare's History Plays & the Human Condition. (3)

UI 435. Literature of Sport. (3)

Management (MG)

MG 151. Contemporary Business.

Examines basic aspects of American business. Not open to business majors with over 45 hours. Does not count on a management minor. (3)

MG 252 (AD 252). Business Communication.

Strategies and skills for effective writing and speaking in business organizations. Strongly recommend completion of AD 101. Prerequisite: EN 140 with a minimum grade of 'C'. (3)

MG 300. Introduction to Quantitative and Production Analysis.

Introduction to quantitative and production analysis in hospitality and consumer sciences. Emphasis placed on decision-making processes and productivity analysis. Prerequisite: MA 134. (3)

MG 301. Management and Organizational Behavior.

The study of individuals and groups in organizations. Topics include motivation, leadership, communication, strategy, and structure in a global environment. Prerequisite: Junior standing. (3)

MG 354 (AD 354). Topics in Management Communication.

Readings/skill development course designed to develop interpersonal communication skills required in leadership positions. Prerequisites: MG 301; SC 105. (3)

MG 355. Supervisory Management.

Techniques of supervision for first level management, emphasizing skills necessary for effective superior-subordinate relationships. Does not count toward management major. Prerequisite: MG 301. (3)

MG 356. Human Resource Management I.

Principles and problems of personnel administration, including recruitment, selection, training, performance appraisal, legislation, safety and health, and compensation management. Prerequisite: MG 301 with a minimum grade of 'C'. (3)

MG 358. Production/Operations Management.

Study of operational areas such as facilities, transformation processes and performance measures. Emphasis on application of management science concepts/techniques. Prerequisite: MG 352 with a minimum grade of 'C'. (3)

MG 362. Management Systems I.

Effective leadership and team performance in organizations. Attention given to personal, interpersonal, and team skills in current management practices. Prerequisite: MG 301 with a minimum grade of 'C'. (3)

MG 421. Total Quality Management.

Integrates into a complete system the management of the human, the structural, and the technological aspects of quality. Prerequisite: MG 301 with a minimum grade of 'C'. (3)

MG 446. Human Resource Management II.

Covers principles of human resource management in organizations. Emphasis is placed on practice, applications, and exercises. Prerequisites: MG 356 with a minimum grade of 'C'. (3)

MG 451. (Cross-listed as IM 417). Materials and Supply Management.

Integration of activities to plan, implement and control efficient flow of raw materials, in-process inventory and finished goods. Pre or corequisite: MG 358 with a minimum grade of 'C'. (3)

MG 452. Production Resource Management.

Basics of production planning and control in manufacturing, including forecasting, aggregate planning, master scheduling, resource and activity control, efficiency measurements. Pre or corequisite: MG 358 with a minimum grade of 'C'. (3)

MG 456. Topics in Human Resource Management.

Seminar in contemporary personnel problems and issues, stressing the technical, analytical, legal and pragmatic approaches to personnel administration. Prerequisite: MG 356 with a minimum grade of 'C'. (3)

MG 457. Issues in Organizational Behavior.

Readings/case analyses course designed to provide in depth study of issues in organizational behavior and implications for managerial action. Prerequisite: MG 301 with a minimum grade of 'C'. (3)

MG 462. Management Systems II.

Utilizing applied projects, four organizational components - customer focus, information, human resources,

processes - are analyzed as parts of an overall system. Pre or corequisite: MG 362 with a minimum grade of 'C'. (3)

MG 470. Leadership in Management.

An investigation of leadership in management and the behavior associated with various leadership styles. Prerequisite: MG 301 with a minimum grade of 'C'. (3)

MG 473. Internship in Management.

Planned work/study designed to integrate cooperative practical real-world experience with academic preparation in the field of management. Prerequisites: 75 hours completed; 15 hours of MG prefix courses; overall GPA of 2.5; 2.75 GPA in management major courses; approval of internship agreement. Credit/no credit. (3)

MG 478. (BA 478) (Cross-listed as MK 478)

Global Logistics.

Study of logistics functions that involve sourcing, production, distribution, and marketing of products and services in the global marketplace. Cannot receive credit for both MG 478 and MK 478. Prerequisite: MG 301 with a minimum grade of 'C'; MK 301 with a minimum grade of 'C'. (3)

MG 481-483. Problems in Management.

Directed study of special problems in management through seminars, workshops, forums, etc. (1-3)

MG 491-493. Independent Study in Management.

A study of an approved specific problem in management preferably one growing out of previous coursework or from business experience. (1-3)

MG 548. Project Management.

Project organization structure and staffing; conflict management; project planning and control; pricing and estimating; earned value analysis, proposal preparation; project information systems; international project management. Prerequisite: MG 301 with a minimum grade of 'C'. (3)

MG 550. Improving Team Performance.

The will investigate team performance and the skills and techniques required to improve team performance. Prerequisites: MG 301 with a minimum grade of 'C'. (3)

MG 560. International Management.

Economic, cultural, political, and environmental variables of international management. Includes trends, organization for international operations, international management of human resources. Prerequisite: MG 301 with a minimum grade of 'C'. (3)

UI 301. Managerial Communication Process. (3)

Management Information Systems (MI)

MI 375 (MG 375). Management Information Systems.

Introduction to management information systems. Topics include executive information systems, management information systems, decision support systems, expert systems, teleprocessing systems. Pre or corequisite: MG 301. Prerequisites: Junior standing; AD 101. (3)

MI 410 (MG 410). Business Database Systems.

Development of database applications for business. Topics include concepts, query languages, database administration, relational and non-relational modes, distributed architectures. Prerequisite: MI 375 with a minimum grade of 'C'. (3)

MI 420 (MG 420). Telecommunications Management.

This is an introductory course on the topic of data communications and networking concepts, components, architectures, protocols, and standards used for transmitting information within a network. Prerequisite: IS 130 and MI 375 with a minimum grade of 'C'. (3)

MI 430 (MG 430). (Cross-listed as IS 465) Decision Support Systems Management.

Use of information systems technologies to support decision making. Topics include decision support systems, expert systems, and executive support systems. Prerequisite: MI 410 with a minimum grade of 'C'. (3)

MI 439 (MG 439). Electronic Commerce.

Use of computer networks to conduct commercial activities of buying, selling, and/or exchanging of products, services, and information. Topics include electronic commerce (EC) tools, strategy and implementation. Prerequisite: IS 130, MI 375 and MK 301 with a minimum grade of 'C'. (3)

MI 440 (MG 440). Web Design Electronic Computing.

This course will focus on developing a World Wide Web presence using Web-centered technologies. Topics include HTML, security, scripting languages, database

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connectivity. Prerequisite: IS 130 and MI 375 with a minimum grade of 'C'. (3)

MI 445 (MG 445). (Cross-listed as IS 445) System Analysis & Design.

Study of a systematic on-going process of systems analysis, systems design, system implementation, systems maintenance and systems security management. Prerequisite: IS 130 and MI 410 with a minimum grade of 'C'. (3)

MI 464 (MG 464). Systems Implementation and Practice.

A capstone field-experience course that builds on systems analysis and design methodologies for the design and implementation of computer-based information systems. Special emphasis is placed on modern tools and techniques for rapid systems development. Prerequisite: MI 445 with a minimum grade of 'C'. (3)

MI 575 (MG 575). Information Technology Management.

Topics considered include business alignment with technology as pertaining to strategic frameworks for IT deployment in an organization. The course is of applied nature, with discussions on industry practices. Prerequisite: MI 375 or IS 275. (3)

Manufacturing Engineering Technology (MN)

MN 170. Engineering Materials and Testing.

This course provides a comprehensive introduction to the basic science of materials engineering. Course topics include: alloying of metals; plain carbon steels and cast irons, and heat treatment; polymeric materials; and both destructive and non-destructive testing. Prerequisites: CH 181; MA 134. (3)

MN 203. Industrial Materials & Processes I.

The study of modern manufacturing processes used to convert metallic materials into products. Topics include heat related processes, metal removal, tooling, forming, and surface quality. Prerequisite: MN 170. (3)

MN 204. Industrial Materials & Processes II.

Continuing study of modern manufacturing processes used to convert metallic materials into products. Topics cover fundamentals of conventional machine tools,

computer numerical (CNC) machines, electrical-discharge machine (EDM), and coordinate measuring machine (CMM). Prerequisite: MN 203; TG 120. (3)

MN 220. Engineering Economic Analysis.

Engineering economy topics include the effects of the time-value of money, concepts of equivalence, replacement analysis, cost/benefit analysis, tax consequences and cost of capital depreciation related to a manufacturing or engineering environment. Prerequisite: MA 134. (3)

MN 260. Technical Computer Programming Applications.

This course will focus on high level programming languages and their applications in industrial technology. Prerequisite: MA 134. (3)

MN 319. Statics & Strengths of Materials.

Investigates principles of forces, moments, resultants and static equilibrium of force systems, center of gravity, friction, and free body diagram analysis with practical laboratories. Prerequisite: MA 134; MN 170; PH 120. (3)

MN 350. Machine Tool Processes.

Lectures and laboratory experiences in CNC machine tool fundamentals and metrology. Prerequisite: MN 204; MA134; or consent of instructor. (3)

MN 354. Computer Aided Manufacturing (CAM).

The study of computer numerical control (CNC) and laboratory projects utilizing mill, lathe, electrical-discharge machine (EDM), and coordinate measuring machine (CMM) for fine measurement. Prerequisites: MN 204; TG 220. (3)

MN 356. Robotic Fundamentals.

An introduction to robotic fundamentals with emphasis on terminology, classification, sensors, socio-economic implications, safety, applications and programming methods. Prerequisites: MN 260; MN 383. (3)

MN 381. Power Transmission.

Theory of energy sources, power-producing machines, and power transmission methods. Applications of power systems. Prerequisite: MN 204. (3)

MN 383. Fluid Power.

Investigates hydraulic and pneumatic systems as a means of transmitting and controlling power; includes identification of components and symbols, hydraulic

system analysis and laboratory applications for fluids and gases. Prerequisite: MA 134; PH 120. (3)

MN 402. Plastics and Processes.

This course encompasses the study of chemical/physical properties of plastic materials, manufacturing processes, and mold design. Prerequisite: MN 354. (3)

MN 412. Advanced Manufacturing Systems.

Provides students an opportunity to study the integration of robots, CNC, CAD/CAM, databases and automated systems into the manufacturing environment. Prerequisites: MN 354; MN 356; or consent of instructor. (3)

MN 416. Manufacturing Seminar.

An advanced level course involving all of the students' previous courses in an interdisciplinary format to solve common problems. Prerequisite: senior status. (3)

See University Studies (UI) listings for description of:

UI 319. **Technology & Society.**(3)

UI 410. **Manufacturing Research in a Global Society.** (3)

Marketing (MK)

MK 201. Values and Social Issues in Business.

Business as a social system and its conceptual foundation will be examined, along with business values and social issues. Does not count on marketing major, marketing minor, or as a core requirement on the BS in BA degree. (University Studies course) (3)

MK 301. Principles of Marketing.

A managerial approach to marketing focusing on matching organizational goals with customers needs in an ethical and socially responsible manner. Prerequisite: Junior standing. (3)

MK 341. Public Relations.

Basic principles of and the role of public relations in the strategy and marketing mix of profit and nonprofit organizations. Prerequisite: MK 301 with minimum grade of 'C.' (3)

MK 342. Professional Selling.

Philosophies and techniques of relating products and services to the customers' wants and needs in a mutually satisfactory manner. Prerequisite: MK 301 with minimum grade of 'C.' (3)

MK 343. Advertising and Promotion.

The role of advertising and promotion in the marketing process, from the business manager's point of view. Prerequisite: MK 301 with minimum grade of 'C.' (3)

MK 344. Consumer Behavior.

Development of a framework within which to review the psychological, social, economic, demographic, environmental and marketing influences on consumer behavior. Prerequisite: MK 301 with minimum grade of 'C.' (3)

MK 345. Introduction to Business Research.

This course deals with theories, concepts and methodology applicable in analyzing marketing and other business problems. Prerequisites: MK 301 with minimum grade of 'C.'; QM 257. (3)

MK 346. Distribution Management.

A study of the institutions and functions of channels of distribution and the physical movement of products to the consumer. Prerequisite: MK 301 with minimum grade of 'C.' (3)

MK 347 Transportation.

Examines the various models of transportation available to distribute goods. Prerequisite: MK 301 with minimum grade of 'C.' (3)

MK 348. Product and Pricing Strategy.

An examination of the new product development process and product management including an analysis of pricing practices and strategies. Prerequisite: MK 301 with minimum grade of 'C.' (3)

MK 349. Retail Management.

Organization, management and operation of and strategy development for retail institutions. Prerequisite: MK 301 with minimum grade of 'C.' (3)

MK 355. Internet Marketing.

An introduction to the Internet as a part of a company's marketing strategy. Students will explore Internet consumer characteristics and behavior and their effect on web content. Prerequisites: AD 101; MK 301. (3)

MK 443. Integrated Marketing Communications Practicum.

The development of integrated marketing communication strategies with major emphasis being placed on advertising; primarily an application course where students develop a promotion campaign for an existing business/organization. Prerequisite: MK 343 or MC 310. (3)

MK 447. Sales Management.

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Human relations aspect of organizing and managing an outside sales force, sales analysis, planning and control. Prerequisite: MK 342. (3)

MK 449. Marketing Management.

An advanced review of the overall marketing process with emphasis on decisionmaking and strategy development. Prerequisite: 15 hours in marketing (MK) courses. Open only for marketing majors. (3)

MK 471-473. Marketing Internship.

Training and work experience in some area of marketing under an approved field supervisor and an approved work/study plan. The student's grade will be on a credit/no credit basis. Prerequisite: Consent of the department. (1-3)

MK 478. (BA 478) (Cross-listed as MG 478)

Global Logistics.

Study of logistics functions that involve sourcing, production, distribution, and marketing of products and services in the global marketplace. Cannot receive credit for both MG 478 and MK 478. Prerequisite: MG 301; MK 301. (3)

MK 483. Practicum in Strategic Marketing.

A supervised field experience in an area of marketing, such as advertising, product development, retailing, personal selling, or marketing research. Prerequisites: Nine hours MK courses; Marketing major; consent of instructor. (3)

MK 491-493. Independent Study in Marketing.

Intensive study of special problems related to marketing practice. Prerequisite: Consent of the department (1-3)

MK 560. International Marketing.

The marketing environments throughout the world and the management of the marketing function on a global scale. Prerequisite: MK 301 with minimum grade of 'C.' (3)

See University Studies (UI) listings for description of:

UI 351. **Public Opinion Management.** (3)

UI 359. **Consumers: Buying/Having/Being.** (3)

UI 400. **Business and Ethics.** (3)

Mass Communication (MC)

MC 101. Mass Communication and Society.

An examination of the diversity of the American mass media and its use by the audience. (University Studies course) (3)

MC 201. Writing for the Mass Media.

An introduction to the process of making news judgment and the practical application of news writing techniques used in the mass media. Prerequisite: EN 100 with a grade of 'C' or better. (3)

MC 301. Mass Communication Theory and Research.

A study of research techniques commonly utilized in the mass media with a broad overview of mass communication theory. Note: Students may not receive credit for MC 301 and SC 305. Prerequisites: MA 155 and MC 101 with a grade of 'C' or better; Junior standing. (3)

MC 310. Advertising Principles.

A survey of advertising principles and practices, stressing creative, communicative and managerial aspects. Prerequisites: MC 101 with a grade of 'C' or better; Junior standing. (3)

MC 312. Advertising Techniques I.

Principles and techniques of producing advertising for print and electronic media. Prerequisites: MC 201 & MC 310 with a grade of 'C' or better; Junior standing. (3)

MC 314. Advertising Techniques: Copy Writing.

Principles of advertising copy writing and design applied to specific types of print and electronic media. Prerequisites: MC 201 and MC 312 with a grade of 'C' or better; Junior standing. (3)

MC 320. Reporting.

A continued study of daily and weekly newspaper reporting and news room operating methods. Prerequisites: MC 201 with a grade of 'C' or better; Junior standing. (3)

MC 322. Publication Editing and Production.

Principles and practices in the editing of copy and photographs, writing headlines, and designing newspaper and magazine pages. Prerequisites: MC 201 with a grade of 'C' or better; Junior standing. (3)

MC 324. Feature Writing.

A study of newspaper and magazine features together with practice in writing nonfiction articles for publications of general, professional or trade interest. Prerequisites: MC 201 and MC 320 with a grade of 'C' or better; Junior standing. (3)

MC 325. Writing Magazine Articles.

Analysis of the journalistic context within which magazine articles are produced. Includes general, professional, and trade interests. Prerequisites: MC 324 with a grade of 'C' or better; Junior standing. (3)

MC 326. Magazine Editing and Production.

Advanced study in editorial and mechanical aspects of producing a magazine. Prerequisites: MC 320 and MC 322 with a grade of 'C' or better; consent of instructor; Junior standing. (3)

MC 328. Photojournalism.

Introduction to the theory and practice of photojournalism. Students must have access to a 35mm camera. Prerequisites: MC 320 and MC 322 with a grade of 'C' or better; TG 274; consent of instructor; Junior standing. (3)

MC 330. Public Relations Principles.

An introduction to the modern public relations function emphasizing its tools, processes, publics, communication methods and professional ethics. Prerequisites: MC 101 with a grade of 'C' or better; Junior standing. (3)

MC 332. Publicity Techniques.

The theoretical and practical study of effective preparation and dissemination of publicity. Prerequisites: MC 201, MC 322, and MC 330 with a grade of 'C' or better; Junior standing. (3)

MC 340. Basic Radio.

Historical and contemporary radio broadcasting as technology and business, including its relationship to government and society. Prerequisites: MC 201 with a grade of 'C' or better; Junior standing. (3)

MC 342. Radio Programming Strategies.

A study of the responsibilities of the persons involved in radio programming with emphasis on formats and delivery. Prerequisites: MC 340 with a grade of 'C' or better; Junior standing. (3)

MC 344. Audio Production and Performance.

Experience oriented course integrating vocal delivery techniques with concepts of program preparation and presentation. Prerequisites: MC 342 with a grade of 'C' or better; Junior standing. (3)

MC 346. Electronic News Gathering.

A study of the techniques of gathering, writing, and producing news stories for radio and television broadcast. Prerequisites: MC 342 with a grade of 'C' or better;

admission to the Mass Communication degree program; Junior standing. (3)

MC 351. Basic Video Production.

An introduction to (1) the general history of video, (2) the scientific and technological principles involved, and (3) future technologies and the resulting possible impact on the human condition. Prerequisites: MC 201 with a grade of 'C' or better; Junior standing. (3)

MC 352. Video Post Production.

This course acquaints students with the electronic field production (EFP) and the complexity and continuity of post production editing. The student will also become familiar with the principles and demonstrations of the technical director. Prerequisites: MC 351 with a grade of 'C' or better; Junior standing. (3)

MC 354. Writing for Video.

A study of contemporary formats commonly utilized in the fields of video production, including practice in the application of those formats through the writing of production scripts for video and film. Prerequisites: MC 351 with a grade of 'C' or better; Junior standing. (3)

MC 365. Dramatic Production for Television.

Combines performance aspects of acting and directing for television. Prerequisites: MC 352 with a grade of 'C' or better; Junior standing. (3)

MC 401. Communication Law.

Introduction to law as it pertains to the mass media. Prerequisites: MC 301 with a grade of 'C' or better; senior standing. (3)

MC 402. Seminar in Mass Communication.

A capstone study of the relationship between the media and other facets of society brought on by technology, ownership, and personal privacy. Prerequisites: MC 301 with a grade of 'C' or better; senior standing. (1)

MC 416. Advertising Media.

Study of advertising placement in media with emphasis on comparison, rating, target audiences, cost efficiency, and effectiveness. Prerequisites: MC 312 with a grade of 'C' or better; admission to the Mass Communication degree program; Junior standing. (3)

MC 418. Advertising Campaigns.

Application of advertising principles and techniques in working with a professional client to prepare and execute an advertising campaign. Prerequisites: MC 314 and MC 416 with a grade of 'C' or better; Senior standing. (3)

MC 420. High School Journalism.

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Techniques of teaching high school journalism, including both newspaper and yearbook. Prerequisites: MC 322 with a grade of 'C' or better; Senior standing. (3)

MC 422. News Interpretation.

Analysis of news, editorials, columns, and reviews in both electronic and print media. Prerequisites: MC 320 with a grade of 'C' or better; admission to the Mass Communication degree program; Senior standing. (3)

MC 425. Public Affairs Reporting.

Study of the reporting techniques used in covering courts, government agencies, public interest organizations, and economics. Prerequisites: MC 320 with a grade of 'C' or better; admission to the Mass Communication degree program; Senior standing. (3)

MC 426. Sportswriting.

Theory and practice in the techniques of sportswriting for print and broadcast media. Prerequisites: MC 322 or MC 342 with a grade of 'C' or better; admission to the Mass Communication degree program; Senior standing. (3)

MC 428. Editorial Page.

An examination of problems, content, selection and writing of opinion for newspaper and an introduction to editorial page design. Prerequisites: MC 320 with a grade of 'C' or better; admission to the Mass Communication degree program; Senior standing. (3)

MC 434. Case Studies in Public Relations.

Analysis of solutions to authentic corporate and not-for-profit communication problems. Prerequisites: MC 322 and MC 332 with a grade of 'C' or better; admission to the Mass Communication degree program; Senior standing. (3)

MC 448. Radio Station Administration.

Administering contemporary commercial and non-commercial radio. Prerequisites: MC 344 & MC 346 with a grade of 'C' or better; Senior standing. (3)

MC 456. Interactive Video.

A study of the process of developing, using, and evaluating the interactive video process with particular interest in its utilization in the corporate and informational setting. Prerequisites: MC 352 with a grade of 'C' or better; Senior standing. (3)

MC 457. Video Production Management.

Prepares students for the responsibilities of the producer in a corporate application, including preproduction and planning, budget, and management. Prerequisites: MC 466 with a grade of 'C' or better; Senior standing. (3)

MC 458. Advanced Video Production.

Application of video techniques while working with a professional client to prepare and execute all pre-production phases of a video project. Prerequisites: MC 456 with a grade of 'C' or better; Senior standing. (3)

MC 466. TV Directing.

Theory and practice of directing for television. Prerequisites: MC 352 with a grade of 'C' or better; admission to the Mass Communication degree program; Senior standing. (3)

MC 467. Television Systems.

Study of broadcast and nonbroadcast delivery systems. Prerequisites: MC 352 with a grade of 'C' or better; Senior standing. (3)

MC 482. Special Problems.

Seminar designed for in-depth study and research of a specific aspect of mass communication. Content varies. Prerequisites: Consent of department chairperson; Senior standing. (3)

MC 483-485. Independent Study in Mass Communication.

Topical study beyond content of course offerings. For majors only. Prerequisites: Grade of 'C' or better in all major courses completed; consent of department chairperson; Senior standing. (1-3)

MC 486. Internship in Mass Communication.

Practical involvement in an appropriate professional organization. Prerequisites: 75 hours; 12 hours in MC option beyond core; grade of 'C' or better in all major courses completed; 2.5 GPA; consent of department chairperson; admission to the Mass Communication degree program; Senior standing. (3)

MC 491. Newspaper Practicum.

A course devoted to practical application of newspaper writing, editing, and layout skills. Prerequisites: MC 320 and MC 322 with a grade of 'C' or better; consent of instructor; Senior standing. (3)

MC 492. Magazine Practicum.

A course devoted to practical application of magazine writing, editing, and layout skills. Prerequisites: MC 326 with a grade of 'C' or better; consent of instructor; Senior standing. (3)

MC 493. Yearbook Practicum.

A course devoted to practical application of yearbook writing, editing, and layout skills. Prerequisites: MC

324 with a grade of 'C' or better; consent of instructor; Senior standing. (3)

MC 494. Radio Practicum.

A course devoted to practical on-air and management radio experiences. Prerequisites: MC 342 with a grade of 'C' or better; consent of instructor; Senior standing. (3)

MC 496. Television Practicum.

A course devoted to practical television experiences. Prerequisites: MC 352 with a grade of 'C' or better; consent of instructor; Senior standing. (3)

See University Studies (UI) listing for description of:
UI 382 History and Philosophy of American Mass Media (3)

Mathematics (MA)

MA 090. Developmental Algebra.

Operations and variables, linear equations and inequalities, exponents, polynomials, factoring, rational expression, linear equations and their graphs. For students who score 17 or below on enhanced ACT mathematics subtest. See graduation requirements (p. 23). (3)

MA 095. Intermediate Algebra.

Polynomials, factoring, equations and inequalities in one and two variables, rational expressions, rational exponents, quadratic equations, and systems of linear equations. Prerequisite: MA 090 with a minimum grade of 'C', or score of 18-20 on enhanced ACT mathematics subtest. See graduation requirements (p. 23). (3)

MA 096. Developmental and Intermediate Algebra.

Integrated course of MA 090 and MA 095. For students who score 17 or below on enhanced ACT solving strategies, sets, whole numbers and their operations and properties, number theory, numeration mathematics subtest. See graduation requirements (p. 23). (5)

MA 118. Mathematics I.

Introduction to problem systems, computer usage, informal geometry, and the historical significance and applications of these topics in the K-9 mathematics curriculum. Prerequisites: MA 095 or MA 096 with a minimum grade of 'C', or 2 units of high school algebra; 1 unit high school geometry. Declared education major in elementary, early childhood, exceptional child, middle school, or secondary mathematics. Any required developmental mathematics courses must be completed

before enrolling in this course. (University Studies course) (3)

MA 123. Survey of Mathematics.

A sampling of topics which mixes mathematics history, its mathematicians, and its problems with a variety of real-life applications. Prerequisites: MA 095 or MA 096 with a minimum grade of 'C', or 2 units of high school algebra; 1 unit high school geometry. Any required developmental mathematics courses must be completed before enrolling in this course. (University Studies course) (3)

MA 133. Plane Trigonometry.

Circular functions, right and oblique triangles, identities and equations, complex numbers. Prerequisites: MA 095 or MA 096 with a minimum grade of 'C', or 2 units high school algebra; 1 unit high school geometry. Any required developmental mathematics courses must be completed before enrolling in this course. (2)

MA 134. College Algebra.

Functions and graphs, polynomial and rational functions, exponential and logarithmic functions, systems of equations and inequalities, binomial theorem. Prerequisite: MA 095 or MA 096 with a minimum grade of 'C', or 2 units high school algebra. Any required developmental mathematics courses must be completed before enrolling in this course. (University Studies course) (3)

MA 135. Algebra and Trigonometry.

Integrated course of College Algebra and Plane Trigonometry. Credit may not be received for MA 133 or MA 134 and MA 135. Prerequisites: MA 095 or MA 096 with a minimum grade of 'C', or 2 units high school algebra; 1 unit high school geometry. Any required developmental mathematics courses must be completed before enrolling in this course. (5)

MA 138. Discrete Mathematics I.

Applied mathematics course emphasizing fundamental principles of discrete mathematics and application to computer science. Topics include logic, mathematical induction, sets, relations, functions, algorithms, permutations and combinations, and graph theory. Prerequisites: MA 134 with a minimum grade of 'C', or 2 units algebra and 1 unit precalculus mathematics in high school. Any required developmental mathematics courses must be completed before enrolling in this course. (3)

MA 139. Applied Calculus.

For students in business, social or life sciences. Functions, limits, differentiation and integration of elementary functions. Emphasizes applications. Credit may not

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be received for both MA 139 and MA 140. Prerequisites: MA 134 with a minimum grade of 'C', or 2 units high school algebra and 1 unit precalculus mathematics. Any required developmental mathematics courses must be completed before enrolling in this course. (3)

MA 140. Analytic Geometry and Calculus I.

Analytic geometry, functions, limits, derivatives and integrals of algebraic, trigonometric, and exponential functions with applications. Credit may not be received for both MA 140 and MA 139. Prerequisites: MA 133 and MA 134 with a minimum grade of 'C', or 2 units high school algebra, 1 unit geometry, and 1 unit precalculus mathematics. Any required developmental mathematics courses must be completed before enrolling in this course. (5)

MA 145. Analytic Geometry and Calculus II.

Differentiation and integration of transcendental functions, series, conic sections, polar coordinates. Prerequisite: MA 140 with a minimum grade of 'C.' (4)

MA 155. Statistical Reasoning.

Course will introduce statistical ideas to students. The student will reach an understanding of these statistical ideas, be able to deal critically with statistical arguments, and gain an understanding of the impact of statistical ideas on public policy and in other areas of academic study. Prerequisite: MA 095 or MA 096 with a minimum grade of 'C', or 2 units high school algebra. Any required developmental mathematics courses must be completed before enrolling in this course. (University Studies Course) (3)

MA 218. Middle School Math.

Selected mathematics topics for teacher of middle school mathematics. Required of secondary mathematics education majors seeking to satisfy middle school certification requirements, otherwise, a general elective. Prerequisite: MA145. (3)

MA 222. Mathematics of Finance.

A study of simple interest, bank discount, compound interest, and annuities; with applications to amortization, sinking funds, and bonds. Prerequisite: MA 134; or 2 units high school algebra and 1 unit precalculus mathematics. (3)

MA 223. Elementary Probability and Statistics.

Introduction to the basic ideas of statistics: descriptive measures, elementary probability, distributions, estimation, hypothesis testing, correlation, and linear regression. Prerequisite: MA 134 with a minimum grade of

'C', or 2 units high school algebra and 1 unit precalculus mathematics. (3)

MA 230. Mathematics for the Early Childhood Teacher.

Topics taught in mathematics classes K-3. Emphasizes the logic and development of number concepts, classifications, numeration, attributes and patterns, measurement and geometry of shapes. May be counted only as elective credit except for a degree program on which this course is expressly required. Prerequisite: MA 118 with a minimum grade of 'C.' (2)

MA 240. Analytic Geometry and Calculus III.

Vectors and solid analytic geometry, partial differentiation, multiple integrals, topics in vector calculus. Prerequisite: MA 145 with a minimum grade of 'C.' (3)

MA 245. Vector Calculus.

Vectors, vector functions, vector geometry, vector analysis. Prerequisite: MA 240 with a minimum grade of 'C.' (2)

MA 250. Foundations of Mathematics.

An introduction to understanding and writing proofs using fundamental concepts such as relations, equivalence, partitions, mathematical induction, functions, development of number systems and infinite sets. Prerequisite: MA 138 or MA 139 or MA 140 with minimum grade of 'C.' (3)

MA 318. Mathematics II.

A development of the real number system, its properties and applications, including algebraic logic, graphing, statistics, probability, and measurement. May be counted only as elective credit except for a degree program in which this course is expressly required. Prerequisite: MA 118 with a minimum grade of 'C.' (3)

MA 334. Computer Programming.

Principles of programming digital computers in FORTRAN and/or BASIC applied to some important computer algorithms in mathematics. Prerequisite: MA 139 or MA 140 with a minimum grade of 'C.' (3)

MA 338. Discrete Mathematics II.

An applied mathematics course that emphasizes fundamental principles of discrete mathematics and their applications to computer science. Topics include the principle of inclusion and exclusion, generating functions, recurrence relations, graph theory, Boolean algebra, coding theory and combinatorial designs. Prerequisite: MA 138 with a minimum grade of 'C.' (3)

MA 340. Concepts of Geometry.

Axiomatic geometry, Menelaus' and Ceva's theorems, harmonic elements and cross ratio, Desargues' theorem, inversion. Prerequisite: MA 139 or MA 140 with a minimum grade of 'C.' (3)

MA 345. Linear Algebra.

Systems of linear equations, matrices and Gaussian elimination, vector spaces, eigenvalues and eigenvectors, inner products and orthogonal sets. Prerequisite: MA 139 or MA 140 with a minimum grade of 'C.' (3)

MA 350. Differential Equations I.

Theory and techniques of solving ordinary differential equations, applications, numerical methods, series solutions, Laplace transforms. Prerequisite: MA 240 with a minimum grade of 'C.' (3)

MA 418. Geometry For Teachers.

Euclidean geometry (demonstrative, coordinate, transformational), intuitive relations, constructions, properties of lines, polygons, circles, and 3-dimensional figures. Prerequisite: MA 118 with a minimum grade of 'C.' (3)

MA 423. Statistical Analysis for Forensic Science.

Introduction to the statistical analysis of genetic data used in forensic science. Basic probability distributions used in analyzing genetic data will be discussed. Emphasis will be placed on estimation and statistical inferential procedures in forensic science. Prerequisite: MA 140 or consent of instructor. (3)

MA 440-441. Independent Study.

Study topics in mathematics not covered in other courses. Prerequisite: MA 240. (1-2)

MA 443. Elementary Number Theory.

Topics of number theory, including fundamental laws, Diophantine equations, the integers, and the properties of linear and quadratic congruences. Prerequisite: MA 139 or MA 140 with a minimum grade of 'C.' (3)

MA 445. Modern Algebra.

Introduction to the study of sets, rings, fields, groups, and vector spaces. Prerequisite: MA 250 with a minimum grade of 'C.'" (3)

MA 448. Mathematics Seminar.

Prerequisite: MA 240. (1)

MA 461-463. Special Topics in Mathematics.

Lectures, discussions, and/or assigned readings on various topics in mathematics. The topic will vary with each offering. (1-3)

MA 464. Mathematical Cryptography.

Course will cover basic concepts of secure communication. Classical cryptography and cryptanalysis, monoalphabetic and polyalphabetic ciphers. Shannon's theory of secrecy. Modern private-key cryptosystems such as DES, and publickey cryptosystems such RSA. Prerequisites: MA 223 or MA 250 or MA 338 or MA345 or MA 443 with a minimum grade of 'C.' (3)

MA 486-488. Internship in Mathematics.

A supervised learning and work experience in mathematics which enhances the student's understanding of, appreciation for, and the application of mathematics. Prerequisites: 45 hours completed; GPA above 3.0; 16 hours above MA 134; consent of instructor. (1-3)

MA 523. Probability and Statistics I.

Introduction to probability and statistics using the tools of calculus. Algebra of probability, random variables, discrete and continuous distributions. Prerequisite: MA 240. (3)

MA 524. Probability and Statistics II.

Continuation of MA 523 with emphasis on applications sampling, estimation, hypothesis testing, regression, experimental design, nonparametric methods. Prerequisite: MA 523. (3)

MA 540. Projective Geometry.

Noneuclidean geometry, study of projective geometry and its relation to other geometries. Prerequisite: MA 340 or 10 hours of mathematics courses numbered above MA 140. (3)

MA 544. Numerical Analysis.

Approximation procedures, numerical differentiation and integration, numerical solution of equations, systems of equations, and differential equations, with reference to computers. Prerequisites: MA 240; MA 334. (3)

MA 545. Linear Algebra and Matrices.

Introduction to vector spaces, linear transformations, matrices, eigenvalues, eigenvectors, and numerical methods in linear algebra. Prerequisite: MA 445. (3)

MA 546. Advanced Calculus I.

Elementary set theory and topology, sequence and series, continuity and differentiability of functions on Euclidean space. Prerequisites: MA 240; MA 250. (3)

MA 547. Advanced Calculus II.

Convergence of series of functions, Implicit Function Theorem, integration. Prerequisite: MA 546. (3)

MA 550. Differential Equations II.

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Theory and techniques of solving ordinary differential equations, partial differential equations, and boundary value problems. Applications, numerical methods, and stability. Prerequisite: MA 350. (3)

MA 560. Research Methods in Mathematics.

An overview of research methods. Practice in the methods for the formulation and solution of problems. Prerequisite: MA 240 or MA 445. (3)

MA 580. Experimental Design and Analysis of Variance.

Completely randomized design and analysis, randomized block design and analysis, factorial experiments, split-plot design and analysis, repeated measurement experiments and analysis, analysis of covariance. Prerequisites: MA 223 (Elementary Probability and Statistics) or consent of instructor. (3)

See University Studies (UI) listings for description of: UI 438. *The Nature and Growth of Mathematical Thought.* (3)

Medical Technology (MT)

MT 200. Introduction to Medical Technology.

A fourth semester on campus course for medical technology majors to acquaint students with the profession and clinical year program of study. One lecture hour. Prerequisite: BI 190 or BS 103 or BS 108; CH 187; or consent of med.tech. advisor. (1) The following courses comprise the fourth year of the cooperative Medical Technology Program and must be taken in an NAACLS accredited program. There may be slight variations in credit hours granted, course titles and course content depending on the specific clinical program.

MT 300. Clinical Chemistry.

Analytical and theoretical aspects of the clinical biochemistry of body fluid constituents and their determination using manual and instrumental techniques. (8-10)

MT 301. Clinical Microscopy.

Principles and techniques of physical, chemical and microscopic examination of urine and other excreta as related to disease processes. (1-2)

MT 302. Hematology and Coagulation.

Study of cellular elements of blood and bone marrow as related to disease. Principles and techniques in homeo-

stasis, blood coagulation and hemorrhage disorders. (6-8)

MT 303. Serology Immunology.

Science of immunity including antibody development, principles of antigenantibody interactions and techniques of serological testing for various disease states. (2-4)

MT 304. Clinical Microbiology.

Techniques of handling, isolating and identifying pathogenic microorganisms; laboratory tests in chemotherapy and diagnostic bacteriology, mycology and parasitology. (7-9)

MT 305. Blood Bank-Immunoematology.

Study of blood group systems and the immune response. Proper clinical utilization of blood components. (3-4)

MT 306. Special Topics in Medical Technology.

Study in the areas of in-service education, management and supervision, research and development as related to the clinical laboratory. (1-4)

Music (ME, MH, MM, MP, MU)

ME 001. Senior Recital.

A juried public recital of onehalf hour in length, to be presented in final semester of study. Music Education majors only. Prerequisite: 400 level applied music and instructor approval. (0)

ME 222. Principles of Teaching Music.

An introductory course for prospective music teachers focusing on the overall role of music in the schools. Corequisite: PY 222. (2 hours, with coordinated field experience)

ME 250. Trumpet and Horn Techniques.

Methods, materials, and techniques for teaching the high brass instruments. Two sessions. (1)

ME 251. Trombone, Euphonium, and Tuba Techniques.

Methods, materials, and techniques for teaching the low brass instruments. Two sessions. (1)

ME 252. Flute and Double Reed Techniques.

Techniques and pedagogy of the flute, oboe and bassoon, including embouchure formation, fingering, reed

making and adjustment, and materials. Two sessions. (1)

ME 253. Single Reed Methods.

Techniques and pedagogy of the clarinet and saxophone, including embouchure, fingering, reed selection and adjustment, and materials. Two sessions. (1)

ME 260. String Techniques.

Basic finger patterns and bowing techniques for the violin, viola, cello, and bass. Materials for teaching. Three sessions. (2)

ME 261. Percussion Techniques.

Methods and materials for teaching percussion instruments. Three sessions. (2)

NOTE: ME 270 through ME 473 are open to Music Education Majors only who have passed all parts of the Sophomore Review and who have been admitted to the Teacher Education Program.

ME 270. Music Education Block II: Field Experience.

Integration of appropriately designed field experience corresponding with achievement of the minimum competency standards specified in Secondary Block II coursework. Prerequisite: Music Education Block I. Corequisites: ME 271; ME 272; ME 371. (3)

ME 271. Theories of Learning and Management.

Classroom instruction in learning theory and behavior management coordinated with instruction of a student in an integrated field experience. Prerequisite: Music Education Block I. Corequisites: ME 270; ME 272; ME 371. (2)

ME 272. Techniques of Teaching Reading Music.

Examination of the role of content teachers in improving reading skills. Analyzes problems of reading music and notation symbols for elementary and secondary students. Prerequisite: Music Education Block I. Corequisites: ME 270; ME 271. (2)

ME 281. Instrumental Fundamentals for Vocal Education

Majors. Basic techniques for teaching instrumental music in elementary and/or secondary settings with emphasis on ensemble training and "hands on" experience. (2)

ME 300. Marching Band Techniques I.

History and function of a marching band program as well as the practical hands-on experience in organization, show design, music selection, and drill design. Pre-

requisite: Two semesters of MU 386. Corequisite: MU 386. (.5)

ME 370. Music Education Block III: Field Experience.

Application of knowledge of professional education, academic specialization, and exceptional children, to appropriate classroom settings. Prerequisites: Music Education Blocks I and II and pass sophomore review. Corequisites: ME 372 or ME 373; EX 390. (1)

ME 369. Elementary Music Methods.

Methods and materials for teaching general music classes in elementary schools. (3)

ME 371. Techniques of Teaching General Music: Elementary and Secondary.

Methods and materials for teaching elementary and secondary general music classes. Prerequisite: Music Education Block II. Corequisites: ME 270; ME 271; ME 272. (4)

ME 372. Instrumental Techniques: Elementary and Secondary.

Preparation of prospective teachers to structure, organize, manage and instruct an instrumental music program. Prerequisite: Music Education Block II. Corequisites: EX 390; ME 370; MU 344. (3)

ME 373. Choral Techniques: Elementary and Secondary.

Total program development: auditions, seating, adolescent voices, organization, management, literature selection, rehearsal techniques, style interpretation, concert programming and preparation, and professional activities. Prerequisite: Music Education Block II. Corequisites: ME 370; EX 390. (3)

ME 400. Marching Band Techniques II.

Continuation of ME 300 with the experience of arranging music, designing drill and teaching show segments. Prerequisite: ME 300. Corequisite: MU 386. (.5)

ME 443. Choral Literature.

A study of choral literature and performance practices of the major style periods. Repertoire will be selected from all musical style periods and choral genres. Prerequisites: MU 341, MU 343 and ME 373 or permission of instructor. (2)

ME 450. Synthesis of Music Education Methods.

Focused readings and class activities which challenge students to relate specific course material to overall prep-

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aration as music educators. Prerequisite: Music Education Block III. (3)

ME 451-453. Topics in Music Education.

Focus on a specific area of interest in music education: elementary or secondary; general, choral or instrumental. Prerequisite: Junior standing. (1-3)

ME 473. Techniques of Teaching Choral Literacy.

Materials and methods for teaching choral literacy. Tonal and rhythmic vocabularies, analysis of sight-singing literature, review of available materials and group instructional techniques. Prerequisite: Music Education Block III. (2)

MH 251. Music History and Literature to 1827.

Examination of and aural exposure to musical literature in art music of Western and non-western cultures in the context of coherent style periods. Emphasis on the interrelation of history and culture as influencing musical literature to 1827. (3)

MH 252. The Evolution of Musical Style Since 1827.

An analytical examination of representative musical works since 1827 with emphasis on understanding the manipulation of musical symbols and its effects. Prerequisite: Ability to read music. (University Studies course) (3)

MM 001. Entry level proficiency examination in music theory and aural skills.

For all music majors. (0)

MM 002. Exit level proficiency examination in music theory and aural skills.

For all music majors. Prerequisites: MM 204; MM 208. (0)

MM 101. Theories of Music in Culture.

Fundamentals of music in resources and practices of Western and Nonwestern cultures. Corequisite: MM 105 for music majors and minors only. (University Studies course) (3)

MM 102. Basic Harmony and Form.

Fundamentals of harmony and form as practiced in Western music of the 18th and 19th centuries. Prerequisite: MM 101 with a grade of 'C' or better. Corequisite: MM 106. (3)

MM 105. Aural Skills I.

Acquisition of skills to recognize and perform elementary rhythmic and melodic patterns; emphasis on triad

and seventh chord identification. Corequisite: MM 101. (1)

MM 106. Aural Skills II.

Continued emphasis on rhythmic, melodic, sight singing and harmonic dictation. Identification of common cadential progressions. Prerequisites: MM 101 and MM 105 with a grade of 'C' or better. Corequisite: MM 102. (1)

MM 203. Advanced Harmony, Form and Counterpoint.

Advanced aspects of harmony and form in Western music of the 18th and 19th centuries with an introduction to 18th century counterpoint. Prerequisite: MM 102 with a grade of 'C' or better. Corequisite: MM 207. (3).

MM 204. Twentieth Century Techniques.

Advanced aspects of harmony, form and counterpoint in Western music of the late 19th and 20th centuries. Prerequisite: MM 203 with a grade of 'C' or better. Corequisite: MM 208. (3)

MM 207. Aural Skills III.

Identification of progressions involving modulation and transposition; sight singing involving modulation. Prerequisites: MM 102 and MM 106 with a grade of 'C' or better. Corequisite: MM 203. (1)

MM 208. Aural Skills IV.

Atonal sight singing. Basic improvisational techniques; rhythm reading with shifting meters; advanced score reading. Prerequisites: MM 203 and MM 207 with a grade of 'C' or better. Corequisite: MM 204. (1)

MM 320. Composition.

Techniques of musical composition with emphasis on structural planning. Techniques of sketching, formal outline, process, and elaboration. Prerequisite: MM 204 or consent of instructor. (3)

MP 100-599. Private Music Lessons.

Private music lessons are available in the following areas:

| | | |
|-------------|-----------|-------------|
| Voice | Flute | Trombone |
| Piano | Clarinet | Euphonium |
| Organ | Saxophone | Tuba |
| Violin | Oboe | Percussion |
| Viola | Bassoon | Guitar |
| Cello | Trumpet | Composition |
| String Bass | Horn | Harpsichord |

Details are available in the Music Department or the Registrar's Office. Prerequisite: Consent of department. (1-3)

MU 001. Piano Proficiency.

Exit level proficiency examination. Requirement for all music majors. Prerequisite: MU 254 or equivalent experience. (0)

MU 002. Sophomore Review.

Mid-point level proficiency examination in music. For all music majors. Prerequisite: Consent of department. (0)

MU 110. Recitals and Concerts.

Participation and attendance at musical performances. (Music majors and minors only) (0)

MU 111. Class Piano.

Beginning piano techniques including five finger patterns, primary chords and transposition. Audition required. Not for Music majors. (2)

MU 113. Intermediate Class Guitar.

Intermediate course in classical guitar technique, including intermediate chording and finger picking. Not for Music Education majors. (2)

MU 114. Singers Diction.

Development of correct Italian, ecclesiastical Latin, German, and French pronunciation for singing. (2)

MU 151. Functional Piano I.

To develop basic piano skills which enable musicians to function in classroom, studio and rehearsal settings. Prerequisite: Audition. (Music majors and minors only) (1)

MU 152. Functional Piano II.

To develop basic piano skills which enable musicians to function in classroom, studio and rehearsal settings. Prerequisite: MU 151 or audition. (Music majors and minors only) (1)

MU 181. Musical Encounters.

A course in music appreciation which develops informed judgment about music through exposure to live performance. (University Studies course) (3)

MU 182. Music: An Artistic Expression.

An examination of music as artistic expression and an analysis of the role music has played in the human experience. (University Studies course) (3)

MU 190. Jazz Appreciation.

An investigation of the development of jazz in order to develop an aesthetic awareness of this art form and its role in American Culture. (3)

MU 220. Class Voice.

Principles of singing vocal literature. (2)

MU 253. Functional Piano III.

To develop basic piano skills which enable musicians to function in classroom, studio and rehearsal settings. Prerequisite: MU 152 or audition. (Music majors and minors only.) (1)

MU 254. Functional Piano IV.

To develop basic piano skills which enable musicians to function in classroom, studio and rehearsal settings. Prerequisite: MU 253 or audition. (Music majors and minors only.) (1)

MU 281. Music for Early Childhood.

Designed to acquaint all teachers of young children with music activities, materials, and necessary skills. (Recommended for those seeking early childhood certification.) (2)

MU 288. Arts for Teachers of Young Children.

Enables the student to integrate movement, music, drama, and visual art with each other as well as with different subjects in the preschool/daycare setting. (3)

MU 299. Chamber Music and Accompanying.

Study and performance of chamber music in small ensembles or keyboard accompanying. Prerequisite: Consent of instructor. (1)

MU 300. Junior Recital.

Public half-hour recital of music representing different styles and techniques. Required of all B.M./Performance students. Prerequisite: MP 300 level; consent of instructor. (May not be elected by students on B.A. or B.M.E. degree programs.) (1)

MU 338. Lute and Guitar Tablatures.

Introduction of the various Renaissance and Baroque lute and guitar tablatures in manuscript and print sources. Prerequisites: Junior or senior status; two semesters of private classical guitar lessons; or consent of instructor. (2)

MU 341. Conducting.

Baton technique for development of basic, physical conducting skills. Lab setting with students conducting in class. Prerequisites: MM 204; MM 208; MU 253. (2)

MU 343. Choral Conducting and Literature.

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Supervised lab experience in developing conducting techniques, mastering basic conducting skills, rehearsal planning, rehearsal techniques, and study of choral literature. Prerequisite: MU 341 or consent of instructor. (2)

MU 344. Instrumental Conducting and Literature.

Supervised lab experience, developing conducting techniques for mastery of basic conducting skills. Development of rehearsal techniques and a significant study of instrumental literature. Prerequisite: MU 341. (2)

MU 356. Music Skills for Classroom Teachers.

Provides the non-music major with basic skills of musical performance and notation to enable them to lead elementary students in classroom music activities. Two sessions. (1)

MU 383. Experimental Music Ensemble.

Students experience new techniques of performance and notation in addition to performing new works by students, faculty, and composers of international stature. Prerequisite: Consent of instructor. (1)

MU 384. Guitar Ensemble.

A performing ensemble open to all university students by audition. (1)

MU 386. Marching Band.

Open to all university students without audition. (1)

MU 387. Jazz Band.

A select Jazz Ensemble open to all University students. Audition required. (1)

MU 389. Choral Union.

An open-enrollment mixed choir for all university students, faculty, and staff. Specializes in performances of major choral works with orchestra. NO AUDITION REQUIRED. (1)

MU 390. Wind Ensemble.

A select ensemble open to all university students. Audition required. (1)

MU 391. Concert Band.

Open to all university students. No audition required. (1)

MU 392. Orchestra.

Open to all university students. Audition required. (1)

MU 394. University Choir.

A select, fifty-voice mixed choir open to all university students which performs a variety of literature from all style periods. Audition required. (1)

MU 398. Music Theatre Workshop.

Practical experience in various phases of opera production and participation in the musical preparation of appropriate operatic roles. Prerequisite: Consent of instructor. (1)

MU 400. Senior Recital.

Public one-hour recital representing different periods or program of compositions (Composition majors). Required of all B.M. degree students. Prerequisite: MP 400 level; consent of department. (May not be elected by students on the B.A. or B.M.E. degree programs.) (2)

MU 424. Vocal Pedagogy.

Processes involved in voice production; respiration, phonation, articulation, and resonance. Physiological, psychological, acoustical problems in teaching singing. (2)

MU 430. Pedagogy: Applied Area.

A study of the physiological, psychological, and acoustical problems and process in teaching applied music. Prerequisite: 300 level standing in applied music. (2)

MU 432. Literature: Applied Area.

The study of the solo literature in a student's major area of emphasis through performance, guided listening, and analysis. Prerequisite: 300 level standing in applied music. (2)

MU 490-492. Independent Study. (1-3)

MU 499. Accompanying.

Study and performance of chamber music and accompanying involving keyboard instruments. Prerequisites: MU 299, Junior standing. (1)

MU 525. Piano Pedagogy.

Problems in teaching piano, including development of technique, tone production, memorizing, fingering, phrasing, etc.; some attention to teaching materials. Prerequisites: MH 251; MH 252. (2)

MU 526. Organ Pedagogy.

Performance study of stylistic and interpretive problems encountered by the performance of the corpus of organ literature. Prerequisite: Consent of instructor. (2)

MU 535. Literature for Piano.

Study of basic piano literature through guided listening and score analysis, with attention to stylistic characteristics. (2)

MU 539. Literature for Organ.

Study of organ literature through performance, guided listening and score analysis, with attention to style characteristics. Prerequisites: MH 251; MH 252; consent of instructor. (2)

MU 540. Vocal Literature.

Study of vocal literature through listening and analysis of form, style and song texts. Prerequisite: MH 252. (2)
See University Studies (UI) listings for descriptions of:
UI 310. *The American Musical Experience.* (3)
UI 315. *Electronics and Computers in Music.* (3)
UI 392. *The Age of Romanticism* (3)
UI 393. *The Age of Modernism.* (3)
UI 394. *Music & Culture: 1600-1750.* (3)
UI 396. *The Age of Beethoven.* (3)
UI 397. *Music in Medieval & Renaissance Culture.* (3)
UI 402. *Music in World Cultures.* (3)

NOTE: Students may receive one hour of credit per semester for participation in band, orchestra, small ensemble, or choir, up to a maximum of three hours applicable toward a degree, if students are not music majors or minors or pursuing music as an area of specialization.

Nursing (NS)

NS 009. Comprehensive Examination.

Required of all senior year nursing students (except RN to BSN students) in both semesters. Includes one exam on which student must demonstrate potential for success on NCLEX, NCLEX review sessions, and successful completion of assigned computer questions. Prerequisite: Senior standing in the nursing major. (1)

NS 180. The Nursing Profession.

Introduction to critical thinking, nursing process, professional nursing roles, theoretical and historical foundations of nursing, the Department's philosophy and framework. Prerequisite: Formal admission to the nursing major. (2)

NS 181. Professional Practice: Clinical Skills.

Instruction and practice of nursing skills, and the application of critical thinking related to client comfort, safety, mobility, and physiologic functions. Prerequisite: Formal admission to the nursing major. (2)

NS 182. Professional Practice: Rural Nursing.

Historical, traditional, and stereotypical characteristics of individuals in rural settings; related delivery of health care to healthy, vulnerable, medically underserved populations. Prerequisite: Formal admission to the nursing major. (1)

NS 183. Physical Aspects of the Well Client.

Identification and description of factors that influence functioning in everyday living. Emphases on professional communication, physical assessment, environment, lifestyles, community resources. Prerequisite: Formal admission to the nursing major. (3)

NS 184. Emotional and Spiritual Aspects of the Well Client.

Focus on the emotional, spiritual, and cultural dimensions of the well individual. Includes sensitivity toward diversity, therapeutic communication, self-awareness and empathy. Prerequisite: Formal admission to the nursing major. (3)

NS 221-223. Directed Readings in Nursing.

Directed readings designed to address specific nursing issues. (1-3)

NS 232. Altered Health and Pharmacological Management I.

Examines effect of pathology on normal body processes. Emphasis on alteration in cell function and body defenses. Includes clinical manifestations and pharmacologic management of disease states. Prerequisites: BS 113/013; BS 114/014. (3)

NS 234. Altered Health and Pharmacological Management II.

Examines physiologic effect of disease states on body systems and organs. Explores clinical manifestations of disease and use of pharmacologic agents in maintenance of body function. Prerequisite: NS 232. Corequisite: NS 236. (3)

NS 236. Altered Health and Pharmacological Management

II Laboratory. Utilizes a case-study approach to analyze commonly employed medical diagnostic and treatment modalities for various disease states. Prerequisite: NS 232; Corequisite: NS 234. (1)

NS 281. Professional Practice: Family Nursing I.

Focus on pregnancy, birth, growth and development, health promotion, and interaction with childbearing and childrearing families in rural community settings. Prerequisite: Sophomore standing in nursing program. (3)

NS 282. Professional Practice: Family Nursing II. Application of knowledgeable caring for high-risk pregnant women, children, and families. Standards of practice applied in interdisciplinary professional practice settings. Prerequisites: NS 281; sophomore standing in nursing program.. (3)

NS 283. Professional Practice: Medical-Surgical Nursing I.

Introduction to role of medical-surgical nurse, application of critical thinking principles to care of young, middle-aged, and older adults. First semester of two semester sequence. Prerequisites: NS 281; sophomore standing in nursing program. (6)

NS 380. Holistic Assessment.

Assessment of physical, emotional, spiritual, and socio-cultural dimensions across the life span related to environment, lifestyles, health patterns, and community resources. For RN-BSN students only. (4)

NS 383. Professional Practice: Medical-Surgical Nursing II.

Introduction to holistic case management and continuity of care beyond acute care settings. Emphasizes care of young, middle-aged, and older adults. Second semester of two semester sequence. Prerequisite: NS 283; junior standing in nursing major. (6)

NS 384. Professional Practice: Mental Health Nursing.

Preparation to meet mental health care needs of clients experiencing emotional and spiritual problems. Includes care of special populations in psychiatry. Prerequisite: Junior standing in nursing major. (3)

NS 385. Research in Professional Practice.

Basic concepts of research process. Emphasizes role of nurse as consumer of research. Pre-requisite: NS 383; junior standing in nursing major. (2)

NS 386. Professional Practice: Community Health Nursing.

Introduction, application of community health concepts related to rural populations. Emphasizes independent decision making based on assessment of individuals, families, and communities. Prerequisites: NS 383; junior standing in nursing major. (6)

NS 390. Framework for Professional Nursing.

Focus on goals of baccalaureate education in preparing the nurse for professional nursing practice. Emphasizes

professional nursing roles and role change. For RN-BSN students only. (4)

NS 403. Nursing Specialties.

Elective course providing the student with clinical experience related to a specialty. Based on approved individualized objectives. May be repeated. Prerequisite: Senior standing in nursing major. (3)

NS 405-407. Independent Study in Nursing.
(1-3)

NS 410. Nursing Research.

Basic concepts of research process. Emphasizes role of nurse as consumer of research. Prerequisite: Senior standing in nursing major or consent of instructor. (3)

NS 451. Nursing Process: Community Health.

Introduction and application of community health concepts, nursing roles and nursing process to individuals, families, communities in unstructured settings. Independent decision making stressed. Prerequisite: Senior standing in nursing major. (6)

NS 480. Professional Practice: Leadership and Management.

Introduction and application of management/leadership concepts in caring for clients with complex problems in a variety of settings. Prerequisite: Senior standing in nursing major. (6)

NS 481. Advanced Assessment.

Application of basic assessment principles including physical, environmental and community assessment. Introduces advanced assessment techniques, synthesis of all aspects of assessment. Prerequisite: Senior standing in nursing major. (1)

NS 482. Professional Seminar.

Critical analysis of dimensions of professional nursing. Includes professional roles, association membership, health care policy/political activism, standards of practice/guidelines. Prerequisites: NS 480; senior standing in nursing major. (1)

NS 483. Professional Practice: Care of the Frail Elderly.

Care management of the frail elderly across a variety of settings, focusing on family caregiving and the identification of community resources. Prerequisites: NS 480; senior standing in nursing major. (2)

NS 484. Comprehensive Professional Practice.

Clinical internship for senior students. Fosters further development of critical thinking and clinical skills in one or two health care settings. Prerequisites: NS 480; senior standing in nursing major. (6)

NS 490. Nursing Leadership and Management.

Presents concepts and principles and clinical application of self, group, and organizational leadership and management. Roles of professional nursing are discussed in relation to leadership and managing care for a group of patients in collaboration with other health team members in acute care and/or long-term health care settings. Prerequisite: Senior standing in nursing major. (6)
See University Studies (UI) listings for description of:
UI 412. **American Health Care Systems & Issues.** (3)

Philosophy (PL)

PL 110 Readings in Philosophy.

An exploration of the main issues in philosophy through philosophical and literary readings. (University Studies course) (3)

PL 115. Philosophical Writing.

A writing study of philosophy emphasizing the clarification, development, criticism, and defense of philosophical ideas. (University Studies course limited to students admitted to the University Honors Program) (3)

PL 120. Symbolic Logic I.

A formal study of argument and inference, emphasizing the application of symbolic techniques to ordinary language. (University Studies course) (3)

PL 203. Aesthetics and the Arts.

An introduction to the concepts, theories, literature, criticism and modes of perception appropriate to understanding the arts, developing aesthetic attitudes and making reasoned evaluative judgments. (University Studies course) (3)

PL 204. Ethical Theory.

A normative study of human behavior including an examination of ethical theories and theories of moral development. (University Studies course) (3)

PL 209. Philosophy and Literature.

An exploration of philosophical themes as developed in a literary context. (3)

PL 224. Philosophy of Women.

Historical survey of philosophical views on women, including the analysis of controversial issues arising from the women's movement. (3)

PL 245. Social Philosophy.

A study of basic concepts and issues in social philosophy. (University Studies course) (3)

PL 300. Ancient Philosophy.

A study of the main philosophical movements, texts and thinkers from ancient Greece through the Roman, Islamic and Medieval periods. Prerequisite: Consent of instructor. (3)

PL 310. Modern Philosophy.

A study of the main philosophical movements, texts and thinkers from the rise of science in the seventeenth century through the development of rationalism, empiricism, Kantianism, and the great social and political philosophies of the eighteenth and nineteenth centuries. Prerequisite: Consent of instructor. (3)

PL 330. Symbolic Logic II.

The analysis of formal symbolic systems through contemporary logical theory and techniques of deductive proof. Prerequisite: Consent of instructor. (3)

PL 340. Philosophy of Religion.

A philosophical analysis of issues basic to understanding religion, including the problem of evil, free will and divine foreknowledge, arguments for the existence of God, relation of faith and reason, and arguments for personal immortality. Prerequisite: Consent of instructor. (3)

PL 390-399. Contemporary Philosophy: Variable Topics.

A detailed study of one aspect of contemporary philosophy such as: analytic philosophy, philosophy of mind, epistemology. Prerequisites: PL 330 or PL 310 and 3 additional hours in philosophy; or consent of instructor. (3)

PL 400-409. Seminar: Topics of Philosophy.

An analysis of specific philosophical issues, such as time, free will, the problem of universals, the nature of matter. (May be repeated for credit when different topics are offered). Prerequisite: Consent of instructor. (3)

PL 450-452. Seminar: Methods and Movements in Philosophy.

An examination of philosophic traditions, such as phenomenology, linguistic analysis, modern philosophical humanism. (May be repeated for credit when different

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traditions are offered). Prerequisite: Consent of instructor. (3)

PL 453. Philosophy of Technology. (3)

PL 522. American Philosophy.

A study of the development of philosophy in America, including both the impact of Continental philosophies on American thought and the emergence of distinctively American styles of philosophy. Prerequisite: Consent of instructor. (3)

See University Studies (UI) listings for descriptions of:

UI 305. **Judicial Reasoning.** (3)

UI 336. **Religion in America.** (3)

UI 352. **Medical Ethics.** (3)

UI 368. **Mind, Meaning, and Value.** (3)

UI 369. **Vice and Virtue.** (3)

UI 370. **Media Ethics.** (3)

UI 400. **Business and Ethics.** (3)

UI 403. **Aesthetics and Human Values.** (3)

UI 407. **Rational Endeavor.** (3)

UI 412. **American Health Care.** (3)

UI 415. **Science and Religion.** (3)

UI 422. **Scientific Reasoning.** (3)

UI 429. **Environmental Ethics.** (3)

Physical Activity (AT)

AQUATICS:

AT 101. Aqua-Aerobics.

An introduction to basic body movements and aquatic conditioning exercises designed to contribute to a lifetime of cardiorespiratory fitness. (1)

AT 103. Swimming.

An individualized course that allows development and improvement of swimming skills from non-swimmer to advanced levels. (1)

FITNESS:

AT 112. Tai Chi.

Instruction and practice in the basics of Tai Chi, combining body postures and mental imagery to enhance relaxation and health. (1)

AT 125. Aerobic Kickboxing.

Introduction to the fundamentals of kickboxing. Designed to increase aerobic fitness, muscular strength, endurance and flexibility. (1)

AT 130. Aerobics.

An introduction to the fundamentals of aerobics; special emphasis will be placed on aerobics as a lifetime physical fitness activity. (1)

AT 132. Body Building.

Fundamentals of body building. Students attempt to develop muscular size while maintaining a symmetry of muscular definition. (1)

AT 136. Jogging/Walking for Fitness.

Development of jogging and walking skills for lifetime fitness. (1)

AT 138. Low Impact Aerobics.

An introduction to the fundamentals of low-impact aerobics. This course involves aerobic activity keeping one foot on the floor at all times (no jogging or jumping activities). Special emphasis will be placed on the use of low-impact aerobics as a lifetime physical fitness activity. (1)

AT 140. SEMO Wellness.

An individualized approach to wellness concepts/practices. Progressive exercise program participation. Application of wellness information for health enhancement through lifestyle changes. (3)

AT 142. Weight Training I.

Fundamentals of weight training. (1)

AT 148. Yoga.

Instruction and practice in the basics of Hatha Yoga: beginning breathing patterns, relaxation techniques, physical postures, and concentration exercises. (1)

LIFETIME ACTIVITIES (INDIVIDUAL/DUAL):

AT 153. Angling, Archery, and Firearms.

Instruction and practice of angling technique, archery target shooting, and air rifle target shooting. (1)

AT 156. Badminton.

Techniques, rules and strategy. (1)

AT 164. Golf I.

Fundamentals of golf; attention to form, strokes, rules, etiquette. (1)

AT 172. Orienteering.

Fundamental skills of map and compass reading and the development of strength and stamina through application of these skills. (1)

AT 174. Rock Climbing and Rappelling.

Development of individual and group skills in solving physical situations and skill problems through role playing and initiative games. Involves both indoor team problem solving and outdoor work on the obstacle course. (1)

AT 176. Tennis I.

Fundamental skills, rules and tactics. (1)

AT 179. Racquetball.

Fundamental skills, rules and tactics. (1)

LIFETIME ACTIVITIES (TEAM):

AT 184. Softball.

Fundamental skills, rules and strategy. (1)

AT 186. Volleyball I.

Fundamental skills, rules and strategy. (1)

MARTIAL ARTS/SELF DEFENSE:

AT 192. Judo I.

Fundamental skills, rules and tactics. (1)

AT 193. Judo II.

Advanced skills and tactics. Prerequisite: AT 192 or equivalent. (1)

AT 196. Self Defense I.

Fundamentals of self defense. (1)

AT 197. Self Defense II.

Advanced steps in self defense for leisure activity and higher skills of self protection. Prerequisite: AT 196 or equivalent. (1)

AT 198. Tae Kwon Do I.

Fundamental techniques of Tae Kwon Do for students of varying skill and experience. (1)

AT 195. Tae Kwon Do II.

Advanced techniques of Tae Kwon Do. Prerequisite: AT 198. (1)

VARSITY SPORTS:

AT 200. Varsity Sports.

Conditioning, theory, and skill development in an inter-collegiate varsity sport. Prerequisite: Member of varsity sport team. (1)

AT 201. Varsity Sports.

Conditioning, theory, and skill development in an inter-collegiate varsity sport. Prerequisite: AT 200. (1)

Physical Education (PE)

PE 201. Sport and Society.

The study of the interrelationships between society, culture, values, and sport, and the ways in which they influence one another. (University Studies Course) (3)

PE 216. Theory and Practice of Team Sports.

Theory, skill development and teaching techniques of basketball, flag football, fleetball, soccer, softball, team handball, and volleyball. (2)

PE 217. Theory and Practice of Individual/Dual and Leisure Activities.

Theory, skill development and teaching techniques of angling, archery, badminton, bowling, firearms, golf, obstacle course, orienteering, racquetball, tennis, and track/field. (4)

PE 219. (Cross-listed as DA 219) Theory and Practice of Dance.

Theory, skill development, and teaching techniques of folk, children's movements (basic rhythms/creative movement), recreational, ballroom, ballet, jazz, and aerobics. (3)

PE 220. First Aid.

American Red Cross requirements for first aid; opportunity for standard and advanced certification. (2)

PE 235. Psychology of Coaching and Human Performance.

Development of a coaching philosophy, instructional techniques, and strategies for dealing with teaching, practice, and game situations. (3)

PE 238. Foundations, History and Philosophy of Physical Education and Sport Management.

Introductory course explores the history and development of the professions of physical education and sport management in the United States. (3)

PE 239. Teaching Children Physical Education.

Teaching developmentally appropriate physical education in the elementary school. Two lectures and one lab per week. (3)

PE 262. Aerobic Certification Training.

Training in the American Council on Exercise (ACE) aerobics certification program in preparation for the ACE-certified Aerobics Instructor examination. (2)

PE 270. Methods of Middle School Physical Education.

Methods and materials for teaching physical education in the middle school. Prerequisites: PE 239; Block I. (3)

PE 305. Motor Development, Learning, and Behavior.

Study of human movement from a motor development and motor learning perspective and its application to the teaching/learning of motor skills. (3)

PE 308. Perceptual Motor Development.

Study of and involvement with children through motor development. Prerequisite: Block III or consent of instructor. (2)

PE 309. Physical Education in the Elementary Curriculum.

An interdisciplinary approach to the integration of fundamental movement skills, wellness, and other physical education concepts with various elementary school disciplines. Corequisite: Elementary Block III or consent of instructor. (1)

PE 310. Tests and Measurements in Physical Activity/Sport.

Available standardized tests in the field. Analysis, construction, administration and use of tests in exercise and sport. (2)

PE 341. Physiology of Conditioning.

Designed to present current foundations, theories and methods of conditioning. Prerequisites: BS 113/013. (3)

PE 361-363. Independent Study.

Topics not included in basic curriculum. (1-3)

PE 408. Physical Education for Individuals with Disabilities.

Study of individuals with physical, mental, or emotional disabilities in a multicultural physical education setting. Prerequisite: EX 390 or consent of instructor. (2)

PE 460. Sports Administration I.

Organization and administration of sport at various levels. The principles, policies, and procedures of sport administration with school emphasis. (3)

PE 464. Kinesiology.

Basic patterns and mechanical principles of motor behavior and their application in physical education and sport. Prerequisites: BS 113/013 or BS 312. (3)

PE 465. Seminar in Physical Education.

Capstone course for K-12 Physical Education major. (1)

Physics (PH)**PH 106. Physical Concepts.**

An introduction to the concepts and principles governing the natural physical world and their relation to society. Emphasis on developing an appreciation for the role of science in our life. Does not count on a major or minor. Two lectures and two hour lab. (University Studies course) (3)

PH 109. Exploring the Universe.

An examination of the physical nature of planets, stars and galaxies, their interrelationships and evolutionary processes. Emphasis on the role of scientific inquiry in our present understanding of the Universe. Does not count on a minor. Two lectures and two hour lab. (University Studies course) (3)

PH 120/020. Introductory Physics I.

Geometrical optics and instruments; kinematics, dynamics, gravitation, momentum, energy, rotation, elasticity, sound and wave motion. Three lectures and two 2 hour labs. Prerequisite: MA 133; MA 134; or equivalent. (University Studies course) (5)

PH 121/021. Introductory Physics II.

Heat and thermodynamics, electricity, magnetism, wave optics, and modern physics. Four lectures and one 2 hour lab. Prerequisite: PH 120/020. (5)

PH 218. Physical Science: A Process Approach.

Major topics include atomic structure, elements and compounds, chemical reactions and energy concepts of heat, light, sound, electricity and magnetism. Does not count on a major or minor. Two lectures and two hour lab. Prerequisite: BS 118. (University Studies course) (3)

PH 230/030. General Physics I.

Mechanics; kinematics and dynamics of linear and rotational motion; heat and thermodynamics. Four lectures and two hour lab. Prerequisite: MA 140. Corequisite: MA 145. (5)

PH 231/031. General Physics II.

Electricity, magnetism; wave motion and sound; geometrical and physical optics. Four lectures and two hour lab. Prerequisite: PH 230/030. Corequisite: MA 240. (5)

PH 328. Energy.

Energy sources and energy flow in an industrialized society. Energy resources, production, conversion, and consumption. Growth of energy use and its environmental implications. On demand. Counts on a minor only. Prerequisite: MA 134 or equivalent. (3)

PH 341. Optics.

Geometrical and physical optics; Fourier analysis; interference, diffraction, double refraction, gratings and light in matter. Spring even years. Prerequisites: PH 231/031; MA 245. (3)

PH 345. Experimental Methods I.

Selected experiments in physics and engineering with emphasis on measurement system design, equipment selection, acquisition and evaluation of data, and written and oral reporting. One lecture; 2 two-hour lab. Fall only. Prerequisites: Logical Systems (MA 134 or higher); PH 121/021 or PH 231/031. (3)

PH 360. Modern Physics.

Theory of special relativity, quantum physics, atomic structure, nuclear physics, elementary particles. Selected topics chosen from recent developments in physics. Fall odd years. Prerequisites: PH 231/031; MA 245. (3)

PH 370. Mechanics.

Selected topics in Newtonian mechanics, including kinematics and dynamics of particles, oscillations, gravitation, Lagrangian and Hamiltonian dynamics, central-force motion, noninertial reference frames, and rigid-body dynamics. Fall even years. Prerequisites: PH 231/031; MA 245. (3)

PH 371. Electromagnetics.

Electric fields, potential and dielectrics; magnetic fields, magnetic properties of matter; Maxwell's equations and electromagnetic waves. Fall odd years. Prerequisites: PH 231/031; MA 245. (3)

PH 400. Topics in Physics and Engineering.

Course title will vary. Format may include lectures, labs, seminars, or other forums as required by the specific course. Prerequisites: MA 245; PH 231; or permission of instructor. (3)

PH 445. Experimental Methods II.

Advanced experiments in physics and engineering with emphasis on measurement system design, equipment selection, acquisition and evaluation of data and written and oral reporting. One lecture and two 2-hour labs. Spring only. Prerequisite: PH 345 or UI 330. (3)

PH 473. Quantum Mechanics.

The fundamental postulates of quantum mechanics and their applications to selected systems. Topics include one-dimensional systems, perturbation theory, three-dimensional systems, angular momenta, one-electron atom, Hartree-Fock formalism, variational principles and quantum theory of scattering. Spring odd years. Prerequisites: MA 245; PH 231/031. (3)

PH 475-476. Literature of Physics.

Intensive study of sources of physics literature by students doing a literature search on a selected topic in physics. Prerequisite: Consent of department chairperson. (1-2)

PH 477. Physics Seminar.

Presentations and discussions by faculty and students on recent topics encountered in reading or research. Prerequisite: PH 121/021 or PH 231/031. (1)

PH 478-479. Undergraduate Research.

Original research for students demonstrating superior ability. Prerequisite: Consent of department chairperson. (1-2)

PH 490-491. Independent Study in Physics.

Individual studies on selected topics not covered by regularly scheduled courses. Prerequisite: Consent of department chairperson. (1-2)

PH 550. National Physics Programs.

Study of precollege physics curricula based on nationally developed programs. Familiarization with lecture, laboratory, audiovisual, and reference materials. Use of microcomputers. Two lectures and two hour lab. On demand. Prerequisites: PH 231/031; MA 245; or consent of instructor. (3)

PH 570. Mathematical Physics.

Selected topics in vector analysis, coordinate transformations, Fourier series, Legendre and Bessel functions, and partial differential equations. Emphasis on practical applications in physics. Spring even years. Prerequisites: PH 231/031; MA 350; or consent of instructor. (3)

See University Studies (UI) listings for descriptions of:

UI 330. **Experimental Methods I** (3)

UI 378. **Physics of Star Trek** (3)

Political Science (PI, PS)

PI 381-383. Political Science Internship.

Practical experience with a public agency providing first-hand experience in the operations of public policy. Prerequisite: PS 103 or PS 104; 2.5 GPA. (1-3)

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PS 103. U.S. Political Systems.

Institutions and processes of national and state government, including an analysis of the Missouri Constitution. (University Studies course) (3)

PS 104. Comparative Political Systems.

The institutions, cultures and practices of democratic and nondemocratic governments, including the United States, including an analysis of the Missouri Constitution. (University Studies course) (3)

PS 220. Missouri Government.

For transfer students only with approval of the Registrar; study of the Constitution, government, and politics of Missouri. (1)

PS 230. American Public Policy.

Major foreign and domestic policies of the U.S. with emphasis on current issues. Prerequisite: PS 103 or PS 104. (3)

PS 240. Introduction to Political Science.

An introduction to the basic concepts and research methods of the discipline, including approaches to study of political science. Prerequisite: PS 103 or PS 104. (3)

PS 280. Introduction to Global Issues.

Concepts and theories to analyze global issues emphasizing conflict, cooperation, arms control, human rights, the environment, development, and the role of the United States. (3)

PS 300. Pre-Law LSAT.

Noncredit course designed to familiarize students with the Law School Admission Test (LSAT). (0)

PS 310. Government and Politics in the American States.

In-depth analysis of the government processes and management of the American states with particular emphasis placed on their interaction. Prerequisite: PS 103 or PS 104. (3)

PS 330. The American Presidency.

Focusing on the contemporary presidency and interaction with Congress and the courts. Prerequisite: PS 103 or PS 104. (3)

PS 335. American Foreign Policy.

A study of the formulation and implementation of contemporary American foreign policy. Prerequisite: PS 103 or PS 104. (3)

PS 355. Third World Politics.

A survey of socio-economic and political developments of Third World countries in Africa, Asia, and Latin America. Prerequisite: PS 103 or PS 104. (3)

PS 360. Political Parties and Voting Behavior.

An examination of their organization and role in the political process with attention given to interest groups and public opinion. Prerequisite: PS 103 or PS 104. (3)

PS 365. Legislative Process in the United States.

Introduction to American assemblies with primary attention on the U.S. Congress and its role in policy making. Prerequisite: PS 103 or PS 104. (3)

PS 370. Political Behavior.

A study of the effects of personality on politics including political leadership, alienation, socialization, and political types. Prerequisite: PS 103 or PS 104. (3)

PS 376. Latin American International Relations.

Study of the Latin American countries' international relations with each other, the U.S., and nonhemispheric states. Prerequisite: PS 103 or PS 104. (3)

PS 380. International Organizations.

Origins, objectives, structures, and functions of the United Nations and non-affiliated organizations of regional cooperation. Prerequisite: PS 103 or PS 104. (3)

PS 384. Political Science Internship.

Practical experience with a public agency providing firsthand experience in the operations of public policy. Prerequisites: PS 103 or PS 104; overall GPA of 2.5. (3)

PS 385. Political Science Internship.

Same as PS 384. (3)

PS 386. Political Science Internship.

Same as PS 384. (3)

PS 387-389. Independent Study in Political Science.

Directed individual study of special interest areas in political science. Prerequisite: Consent of instructor. (1-3)

PS 390. The American Judicial System.

Organization and function of federal and state courts including their interaction with the executive and legislative branches of government. Prerequisite: PS 103 or PS 104. (3)

PS 402. Fundamentals of Public Administration.

A comprehensive examination of the operations of public agencies from an internal and external perspective. Prerequisite: PS 103 or PS 104. (3)

PS 403. Public Personnel Administration.

An analysis of personnel practices, procedures, and research of the state and federal agencies. Prerequisite: PS 103 or PS 104. (3)

PS 415. Government Budgeting Process.

Procedures and decision making strategies involved in the preparation, authorization, and expenditure of the federal budget. Prerequisite: PS 103 or PS 104. (3)

PS 418. Public Policy Analysis.

Systematic analysis of how public analysts evaluate different policy issues. Prerequisite: PS 103 or PS 104. (3)

PS 420. Politics of Food and Rural Policy in the United States.

U.S. domestic and foreign agriculture and rural development policies including rural ideology, policy development and political activity. Prerequisite: PS 103 or PS 104. (3)

PS 425. Administrative Law and Procedure.

An analysis of rules, procedures, and decision-making practices of public agencies at the state and federal level. Prerequisite: PS 103 or PS 104. (3)

PS 440. Political Theory.

Introduction to political philosophy. Prerequisite: PS 103 or PS 104. (3)

PS 450. Government and Politics of East and Central Europe.

A study of the transformation of Russia and other countries of Central/Eastern Europe (including the former East Germany) from authoritarian to democratic political systems with an emphasis on political economy, ethnicity, and nationalism. Prerequisite: PS 103 or PS 104. (3)

PS 460. Government and Politics of Western Europe.

A study of government and politics of Western Europe. This course provides a comparative perspective emphasizing the politics of Britain, France, Germany, Spain, Italy, and the institutions of the European Union. Prerequisite: PS 103 or PS 104. (3)

PS 470. Politics of the Developed World.

An examination of the major political, social, and economic issues facing governments of the developed world. Prerequisite: PS 103 or PS 104. (3)

PS 490. Constitutional Law.

Major decisions of the Supreme Court, the policy-making role of the Court and judicial behavior of judges. Prerequisite: PS 103 or PS 104. (3)

PS 570. Comparative Government.

Governmental principles and practices in the United Kingdom, France, Germany, and the Soviet Union. Prerequisite: PS 103 or PS 104. (3)

PS 580. International Politics.

Analysis of the super powers struggle for economic military and political power with emphasis on the Third World. Prerequisite: PS 103 or PS 104. (3)

PS 595. International Law.

Examination of those principles generally governing the conduct of nations. Prerequisite: PS 103 or PS 104. (3)

See University Studies (UI) listings for descriptions of:

UI 320. **Modern Presidency** (3)

UI 322. **International Political Economy** (3)

UI 342. **Modern Political Thought** (3)

UI 350. **Middle East Politics** (3)

UI 357. **Early American Political Thought** (3)

UI 358. **Foundations of Political Thought** (3)

UI 361. **Contemporary Political Theory** (3)

UI 440. **The Holocaust** (3)

Psychology (PY)

PY 101. Psychological Perspectives on Human Behavior.

Examination of human behavior and experience from a psychological perspective. Application of psychological principles to understanding of human behavior. (University Studies course) (3)

PY 102. Introduction to Psychology.

Introduction to the field of psychology. Includes perception, learning, memory, motivation, emotion, intelligence, personality, human development, psychopathology, and social behavior. (3)

PY 120. The Child: Development from Conception to Adolescence.

An overview of the social, cognitive, physical and emotional changes that occur from conception to adolescence. Application of principles of development to the

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understanding of child development and behavior. (University Studies course) (3)

PY 151. Social Decision Making.

Concepts, theories and research that contribute to understanding, analyzing and evaluating people's thinking and behavior in social psychological interactions. (University Studies course) (3)

PY 220 Psychological Development Across the Life Span.

Broad overview of human development across the life-span. Reciprocal nature of the individual/environment interaction is emphasized. (University Studies course) (3)

PY 222. Development of the Adolescent.

The basic physical, cognitive, social and personality development of the adolescent period will be examined. Efforts will be made to understand current issues affecting adolescence in light of recent empirical and theoretical knowledge. (University Studies course) (3)

PY 250. Applied Psychology.

A comprehensive study of how psychology is used, how psychologists do their work and how applications of psychology affect daily life. (3)

PY 251. Industrial and Organizational Psychology.

Survey of industrial-organizational psychology as a science and a profession. Theory is integrated with skill development in several areas. (3)

PY 271. Research Design and Analysis I.

Introduction to basic data analysis used in psychological research, including descriptive and inferential techniques and elements of research design. (3)

PY 325. Psychological Development of the Family.

Examination of psychological factors affecting family development and interaction across the stages of family life. (3)

PY 353. Social Cognition.

Analysis of theories, evidence, and practical applications of the way that people make sense of their personal and social lives. (3)

PY 358. Social Psychology.

A survey of psychological aspects of social action and interaction, including aggression, attitudes, attraction,

altruism, prejudice, group behavior, environmental psychology, and applied social topics. (3)

PY 359. Psychology and the Law.

Psychological analysis of law, criminality and the judicial system. Emphasis on psychological research exploring all aspects of the legal system. (3)

PY 362. Learning and Memory.

Basic phenomena of learning and memory, including: principles of classical and instrumental conditioning; the roles of contiguity, practice and reinforcement in learning; transfer of learning; and retention of learning. (3)

PY 364. Comparative Cognition.

A review of the history and theory associated with the scientific study of cognition in animals. The course specifically reviews contemporary research in attention, memory, primate cognition, serial learning, timing and counting, and concept learning. Evolutionary similarities and differences among species are explored. (3)

PY 366. Introduction to Sensation and Perception.

Introductory study of the behavioral, physiological and cognitive aspects of sensation and perception. (3)

PY 370. Research Design and Analysis II.

Introduction to research methods used in psychological research, including experimental survey, and observational designs. Prerequisites: PY 102; PY 271. (3)

PY 401. Special Topics in Psychology.

In-depth analysis of current readings related to the topic under consideration. Topic and content will be variable. Prerequisites: Junior standing; PY 271; PY 497; or consent of department chairperson. (3)

PY 432. Introduction to Personality.

Introduction to theories on personality, assessment of personality and application of personality theory and assessment to basic life processes. (3)

PY 440. Abnormal Psychology.

Survey of classification and assessment of abnormal behavior, its causes and methods of treatment. (3)

PY 441. Introduction to Clinical Psychology.

Survey of the understanding, assessment, treatment and prevention of maladaptive behavior. (3)

PY 442. Psychotherapy.

Theoretical and methodological aspects of analytic, neo-analytic, existential, cognitive, and behavioral therapies and assessment of their clinical effectiveness. (3)

PY 444. Childhood: Psychopathology.

Survey of the clinical description, causes and treatment of the major forms of abnormal behavior evident during childhood and adolescence. (3)

PY 450. Organizations as Open Systems.

Organizations and organizational behavior are studied from an open system theory orientation. (3)

PY 460. Cognitive Processes.

Principal cognitive processes in humans, theoretical explanations and empirical findings. Prerequisite: one PY course. (3)

PY 465. Motivation and Emotion.

Physiological, social, cognitive, and environmental factors that contribute to the causation, maintenance, and regulation of motivated and emotive behaviors. (3)

PY 466. Introduction to Physiological Psychology.

An introduction to the neural, hormonal, and genetic mechanisms that help mediate behavior. (3)

PY 484. Advanced Research in Psychology.

A laboratory research experience emphasizing the integration of material from previous research courses through conducting an original research study. Prerequisites: PY 102; PY 271; PY 370. (3)

PY 491-492. Directed Readings in Psychology.

Directed reading in an area of psychology allowing students to increase their knowledge in an area of individual interest. Prerequisites: Completion of 75 semester hours; minimum 2.75 GPA in psychology or 2.50 cumulative GPA; consent of department chairperson. (2-3)

PY 493-494. Directed Research in Psychology.

Supervised experimental study of a psychological topic selected by the student, who should be well informed in fundamentals of experimental methods and statistics. Prerequisites: Completion of 75 semester hours; minimum 2.75 in psychology or 2.50 cumulative GPA; consent of department chairperson. (2-3)

PY 495. Internship in Psychology.

Practical experience utilizing psychological principles and research methodology in applied settings. Course may be repeated once. Prerequisites: Psychology major; 18 hours of PY courses; GPA of 2.50 in psychology. (3)

PY 497. Historical Development in Psychology.

Development of psychology as a discipline and profession. An historical coverage of systems and directions representing the breadth and diversity of the discipline. Prerequisites: PY 102; PY 271; PY 370 and completion of the extended core requirements in the major. (3)

PY 521. Advanced Child Development.

In-depth investigation of selected topics in cognitive, social, emotional and physical development from conception through late childhood. Prerequisite: PY 120 or PY 220 or PY 222; or consent of instructor. (3)

PY 525. Maturity and Aging.

Investigation of the physical, intellectual, social and cultural influences on postadolescent development. (3)

PY 529. Psychology of Death and Dying.

Examination of the processes of death, dying and bereavement in contemporary society. (3)

PY 531. Psychological Testing.

Basic principles of construction, administration and interpretation of psychological tests. Considerations in the use of tests in various settings. Prerequisite: PY 271 or PY 571 or QM 257 or SO 242; or consent of instructor. (3)

PY 543. Clinical Psychopharmacology.

Survey of the clinical uses of the major classes of drugs employed in the treatment of psychological disorders. (3)

PY 553. Perspectives on Stress.

Application of stress principles in the practice of psychology and management pertaining to organizational behavior. (3)

PY 555. Health Psychology.

Applications of psychology that contribute to promotion of health and prevention of disease through behavior change in health enhancing directions. (3)

See University Studies (UI) listings for descriptions of:

UI 300. Drugs and Behavior (3)

UI 317. Human Sexuality (3)

UI 354. Lifestyle Enhancement (3)

UI 430. Aging Successfully: Critical Issues Facing the Individual in the 21st Century (3)

UI 444. Americans and Their Institutions. (3)

Quantitative Methods (QM)

QM 257 (MG 257). Business Statistics.

Statistical methods with business applications emphasis. Includes descriptive statistics, probability, probability distributions, sampling theory, estimation, hypothesis testing, regression, ethical considerations. Prerequisites: AD 101 with a minimum grade of 'C'; MA 139 with a minimum grade of 'C'. (3)

QM 352 (MG 352). Quantitative Methods in Business.

The application of mathematical techniques to business problems including decision theory, linear programming, queuing theory and forecasting. Prerequisites: MA 139 and QM 257 with a minimum grade of 'C' and junior standing. (3)

Recreation (RC)

RC 100. Leisure in a Diverse Culture.

Study of leisure and its impact on contemporary culture, diverse populations, and the lives of individuals. (3)

RC 112. Introduction to Music Therapy.

Survey of music therapy settings and interdisciplinary professional applications. Emphasis on experiential learning of concepts. (3)

RC 116 (Cross-listed as HL 116). Special Topics in Health and Leisure.

Special topics in health and leisure unavailable in the department curriculum. May be repeated for credit on different topics. (1-3)

RC 119. Outdoor Adventure Special Topics.

Special topics in outdoor adventure skills and principles that are unavailable through the department curriculum. May be repeated for credit on different topics. Prerequisite: Permission of instructor. (1-3)

RC 140. Introduction to Recreation Services.

Historical and philosophical foundations of recreation and leisure profession, influences of recreation and park movements, technological, economic, and community impact on leisure delivery systems. (3)

RC 210. Camp Leadership.

Organization and administration of camps and principles of camp leadership. (3)

RC 220. Leadership and Group Dynamics.

Principles and techniques in recreation leadership, leadership theories, and group dynamics. For recreation majors and minors; or by consent of instructor. (3)

RC 230. Recreational Sports.

Exploration and examination of the recreational sports/intramurals/campus recreation field including philosophy and programming. (3)

RC 245. Mentoring Principles and Practices.

Introduction to the community service field with emphasis on peer and youth mentoring programs. Focus on successful mentoring skills and exploration of mentoring programs. (3)

RC 250. Foundations of Outdoor Recreation.

The outdoor recreation movement and the role of federal, state, and community agencies in response to outdoor recreation demands. Prerequisite: RC 140. (3)

RC 260. Introduction to Therapeutic Recreation.

Introduction to recreation programming of major agencies serving special populations. Prerequisite: RC 140. (3)

RC 270. Commercial Recreation.

An overview of the area of commercial recreation and the process of establishing a commercial recreation entrepreneurship. (3)

RC 288. Practicum in Recreation Services.

Limited observation and extensive hands-on participation as a paraprofessional in local recreation/park programs. Six hours field work; one hour seminar per week. Prerequisites: RC 140; Recreation major or minor. (3)

RC 300. Leisure Education.

Students learn concepts and models of leisure education, communication skills, leadership strategies in leisure education, and how to build and maintain helping relationships. Prerequisite: RC 260. (3)

RC 303 (Cross-listed as HL 303). Research Methods.

Overview of research methods in health and recreation with emphasis on research designs, instrument construction, and basic data management. Prerequisites: HL 111 or RC 140; Health Management or Recreation major. (3)

RC 304. Therapeutic Recreation: Program Design.

Examination of the process of service delivery in Therapeutic Recreation including client assessment, program planning/evaluation, and client progress/outcomes. (3)

RC 316 (Cross-listed as HL 316). Special Topics in Health and Leisure.

Special topics in health and leisure unavailable in the department curriculum. May be repeated for credit on different topics. (1-3)

RC 321-323. Independent Study in Recreation.

Topics not included in basic curriculum. (1-3)

RC 324. Independent Study in Therapeutic Recreation.

An investigation of contemporary issues and problems in therapeutic recreation to include assessment, planning and implementing, documentation, organizing and diagnostic grouping. (3)

RC 345. Youth Development Through Leisure.

Understanding developmental stages of youth and the impact of recreational programs on character, identity, and personal growth. Focus on facilitating changes in leisure behavior. Prerequisite: RC 245. (3)

RC 360. Therapeutic and Adapted Recreational Services.

Recreation services for special population groups. Prerequisite: RC 260. (3)

RC 380. Programming for Recreation Services.

Principles of program planning for recreation and park settings. Pre or corequisite: RC 288. (3)

RC 385. Recreational Facilities Planning and Management.

Trends, problems and future directions of facility development, construction and maintenance of recreation and park facilities. Pre or corequisite: RC 288. (3)

RC 405. Trends and Issues in Recreation and Leisure.

Study of current economic and social changes and their influence on leisure pursuits and on the recreation profession. Prerequisites: Junior standing; 15 hours of recreation completed. (3)

RC 420. Organization and Administration of Recreation Services.

Administration of public recreation and park services provided by municipal, county, and state agencies. Prerequisites: RC 380; RC 385; senior standing. (3)

RC 440. Facilitation of Group Development.

Applies experiential education theory in group settings. Focus is on designing and facilitating experiences which incorporate critical reflection, problem-solving and decisionmaking skills. Prerequisite: RC 220. (3)

RC 450. Outdoor Adventure as Treatment.

Outdoor leadership skills including rock climbing, whitewater rafting, hiking, and horseback across the United States. Student completing course earns wilderness treatment specialists certification. Prerequisites: RC 260; SR 448. (3)

RC 460. Problems and Issues in Therapeutic Recreation.

An investigation of contemporary issues and problems in therapeutic recreation to include assessment, planning and implementing, documentation, organizing, and diagnostic grouping. Prerequisites: Completion of 15 hours in recreation; 2.5 overall GPA or 2.75 in RC courses. (3)

RC 497. Recreation Internship.

Internship with approved professionals in selected recreation/park programs. Experience in all phases of a recreation/park agency operation. Prerequisites: Senior standing; completion of all degree requirements; 2.50 GPA in the major; 2.25 cumulative GPA; faculty advisor's and university's internship supervisor's approval. (12)

Religion (RS)

RS 101. World Religions.

A study of major world religions, including an examination of various definitions and characteristics of religion as exemplified in the histories of religions and their impact on societies. (University Studies course) (3)

RS 201. New Testament Literature.

A study of the literary genres and historical contexts of the New Testament writings. (University Studies course) (3)

RS 202. Old Testament Literature.

An historical and critical study of the literature of the Old Testament, using tools of modern biblical scholarship. (University Studies course) (3)

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RS 210. Asian Religions.

A study of religious systems of India, Southeast Asia, China and Japan. Prerequisite: consent of instructor. (3)

RS 350. Religious Topics and Issues.

An analysis of specific question areas in religion, such as death and dying, personal immortality, divine foreknowledge. (May be repeated for credit when different topics are offered.) Prerequisite: Consent of instructor. (3)

Secondary Education (SE)

SE 222. Secondary Block I Field Experience.

An entry level course for students wishing to pursue a teaching career at the secondary level in the field of education. Corequisite: EM 102; PY 222. (1)

SE 250. Fundamentals of Middle School Education.

History, philosophy, organization, and curriculum of middle level schools and the instructional strategies and technology for teaching young adolescents. Prerequisite: Secondary Block I. Corequisites: SE 270; SE 271; SE 272. (3)

SE 251. Reading and Writing in Middle School.

A study of reading and writing as tools for learning in the middle school content area. (3)

SE 270 Secondary Block II Field Experience.

Integration of appropriately designed field experience corresponding with achievement of the MOSTEP standards specified in Secondary Block II coursework. Prerequisite: Block I. Corequisite: Block II. (3)

SE 271. Theories of Learning and Management.

Classroom instruction in learning theory and behavior management will be coordinated with instruction of a student in an integrated field experience. Prerequisite: Block I. Corequisite: Block II (2)

SE 272. Teaching Reading in Secondary School.

Provides the student with a variety of methods and materials for improving reading skills at the secondary level. Prerequisite: Block I. Corequisite: Block II. (2)

SE 273. Fundamentals of High School Education.

History, philosophy, organization, and curriculum of high schools and the instructional strategies and tech-

nology for teaching adolescents. Prerequisite: Block I. Corequisite: Block II. (3)

SE 274. Reading Education for Speech Pathologists.

Provides the speech pathology student with an understanding of methods and materials for improving reading skills of second school students. Prerequisite: Admission to the Teacher Education Program. (2)

SE 311. Techniques of Teaching High School Mathematics.

Methods, materials and trends in secondary mathematics. Prerequisites: Blocks I & II. Corequisite: Block III. (3)

SE 312. Curriculum Development and Techniques of Teaching Vocational Home Economics.

Organization, administration, curriculum development and methods of teaching in vocational home economics programs at the elementary, secondary and adult levels. Prerequisites: Blocks I & II. Corequisite: Block III. (4)

SE 314. Techniques of Teaching Business Subjects.

Methods, materials and trends in secondary business education. Prerequisites: Blocks I & II. Corequisite: Block III. (3)

SE 315. Techniques of Teaching Art.

Methods, materials and trends in secondary art. Prerequisites: Blocks I & II. Corequisite: Block III. (3)

SE 316. Techniques of Teaching Technology Education.

Philosophy, methods, materials and trends in technology education. Prerequisites: Blocks I & II. Corequisite: Block III. (3)

SE 318. Techniques of Teaching Secondary Social Studies.

Methods, materials and trends in secondary social studies. Prerequisites: Blocks I & II. Corequisite: Block III. (3)

SE 319. Techniques of Teaching English.

Methods, materials and trends in secondary English. Prerequisites: Blocks I & II; EN 378; EN 379; EN 385. Corequisite: Block III. (3)

SE 320. Techniques of Teaching Science.

Methods, materials and trends in secondary science. Prerequisites: Blocks I & II. Corequisite: Block III. (3)

SE 321. Techniques of Teaching Physical Education.

Methods, materials and trends in secondary school physical education. Prerequisites: Blocks I & II. Corequisite: Block III. (3)

SE 322. Techniques of Teaching Foreign Languages.

Methods, materials and trends in foreign language education. Prerequisites: Blocks I & II. Corequisite: Block III. (3)

SE 323. Techniques of Teaching Speech.

Methods, materials and trends in the teaching of speech communication at the secondary level. Prerequisites: Blocks I & II. Corequisite: Block III. (3)

SE 370. Secondary Block III: Field Experience.

Students will apply knowledge of professional education, an academic specialization and exceptional children, to appropriate classroom settings. Prerequisites: Blocks I & II. Corequisite: Block III. (1)

SE 460. Practicum.

Professional practicum for students in the Alternative Certification program requiring classroom teaching under the direction and supervision of site administrators and program coordinator. (6)

SE 463. Student Teaching Experience I.

Professional practicum requiring demonstration of teaching competencies in school settings under the direction of cooperating teachers and university coordinators. Prerequisites: Senior status; one semester in residence; completion of all required professional education courses; seventy-five percent of academic coursework related to certification; good standing in the Teacher Education program. (6)

SE 464. Student Teaching Experience II.

Professional practicum requiring demonstration of teaching competencies in school settings. Students teach under the direction of cooperating teachers and university coordinators. Prerequisite: SE 463. (6)

SE 480. Independent Study in Middle & Secondary Education.

Independent work in a specialized area not covered by regular course offerings. Prerequisite: Consent of Instructor. (1-3)

SE 500. The Internet in Education.

Study of the internet and its uses in education, including the design of educational web pages and planning of

internet-based activities for students. In addition, this course will give students an appreciation for the management issues surrounding the development and use of information technology in education. Prerequisite: EM 102 or consent of instructor. (3)

Social Rehabilitation (SR)

SR 444. Treatment Strategies: Alcohol and Drug Abuse.

Orientation to treatment approaches (modalities) relating to alcohol and drug abuse. Individual treatment approaches, family therapy and intervention models as well as selected group treatment approaches will be explored. Prerequisite: Junior standing. (3)

SR 448. Juvenile Justice Treatment and Intervention Strategies.

An overview of treatment strategies used in juvenile justice programs and an opportunity to observe and participate in actual programs at local agencies. Prerequisites: SW 110; PY 441 or PY 444. (3)

SR 450. Wilderness Advantage Therapy.

Experiential education in the concepts of wilderness therapy with juvenile and adult offenders. Completion of field expedition qualifies student for certification. (3)

Social Work (SW)

SW 103 (Cross-listed as BS 103). Human Biology.

Emphasis on human cell, tissue, and organ system function. Discussions focus on a systems approach to human health and disease. Does not count on any major or minor in Biology Department. (University Studies course) Prerequisite: SW 110. (3)

SW 207. Understanding Cultural and Social Diversity.

Presents knowledge and develops understanding, affirmation, and respect for people from diverse backgrounds within their cultural contexts at the interpersonal level. (University Studies course) (3)

SW 110. Introduction to Social Work.

Provides a survey of social work profession and its central ideas, values, methods, and practice settings. (3)

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SW 255. Special Topics in Social Work.

Study of specific social work topics and issues. (May be repeated for credit on different topics.) On demand. Prerequisite: SW 110 with a minimum grade of 'C' or consent of instructor. (3)

SW 307. Human Behavior and Social Environment I.

Introduces students to knowledge, theories, and concepts about human behavior with emphasis on individuals and families. Prerequisites: BS/SW 103, PY 101, SO 102, SW 207, each with a minimum grade of 'C'. (3)

SW 308. Human Behavior and Social Environment II.

Introduces students to knowledge, theories, and concepts about human behavior in the context of groups, organizations, and communities. Prerequisite: SW 307 with a minimum grade of 'C'. (3)

SW 310. Social Welfare Policies and Services.

Critical analysis and evaluation of social welfare policies and programs/services. Prerequisites: SW 110; University Studies Political and Economic Systems. (3)

SW 315. Social Work Intervention.

Explores beginning knowledge and skills needed for providing intervention with individuals, families, groups and social systems. Limited to non-Social Work majors. Pre or Corequisite: SW 307. (3)

SW 321. Generalist Practice I.

Introduces skills and knowledge for working with individuals in the context of the larger social environment. One 2-hour lecture and one 2-hour lab. Prerequisite: SW 307 with a minimum grade of 'C' or concurrent enrollment; Social Work major. (3)

SW 322. Generalist Practice II.

Focuses on development and application of intervention skills for generalist social work practice with individuals, families, and groups. One 2-hour lecture and one 2-hour lab. Prerequisite: SW 308 with a minimum grade of 'C'; SW 321 with a minimum grade of 'C'; Social Work major. (3)

SW 323. Generalist Practice III.

Focuses on development and application of intervention skills in assessment, planning and social change for generalist social work practice with communities. Prerequisite: SW 308 with a minimum grade of 'C'; Social Work major. Co or prerequisite: SW 322. (3)

SW 342. Methods of Social Research.

The application and use of the social scientific method for measuring social work intervention. Prerequisite: SW/SO/AN 242 or PY 271 with a minimum grade of 'C'. (3)

SW 351. Child Welfare Services.

Examines knowledge and skills required for effective social service delivery to families and to children in day care, foster care or adoptive placement. Prerequisite: SW 110 with minimum grade of 'C' or consent of instructor. (3)

SW 352. Social Welfare Services to the Aged.

Examines the knowledge and skills required for effective social service delivery to the elderly. Prerequisite: SW 110 with a minimum grade of 'C' or consent of instructor. (3)

SW 355. Special Topics in Social Work.

Study of specific social work topics and issues. (May be repeated for credit on different topics.) On demand. Prerequisite: SW 110 with a minimum grade of 'C' or consent of instructor. (3)

SW 387-389. Independent Study for Social Work.

Directed individual study of special interest areas in social work. (May be repeated for additional credit). On demand. Prerequisite: Consent of instructor. (1-3)

SW 449. Social Work Integrative Seminar.

Integrates social work theory with practice using small group discussions. Strengthens practice skills during the student's field practicum. Prerequisites: Completion of all required courses for Social Work major; cumulative GPA of 2.5 or cumulative GPA of 2.25 plus 2.75 GPA in foundation social work courses; senior standing; successful completion of WP 003. (3)

SW 450. Social Work Practicum.

Internship in social service agency for one semester. Opportunity to apply entry level social work practice skills. Agency placements individually arranged. Prerequisites: Completion of all required courses for Social Work major; cumulative GPA of 2.5 or cumulative GPA of 2.25 plus 2.75 GPA in foundation social work courses; senior standing; successful completion of WP 003. Credit/no credit only. (6)

SW 451. Social Work Practicum.

Internship in social service agency for one semester. Opportunity to apply entry level social work practice skills. Agency placements individually arranged. Prereq-

quisites: Completion of all required courses for Social Work major; cumulative GPA of 2.5 or cumulative GPA of 2.25 plus 2.75 GPA in foundation social work courses; senior standing; successful completion of WP 003. Credit/no credit only. (6)

SW 550. Management Supervision.

Provides an indepth scholarly opportunity to analyze contemporary management principles and applications for moving from line worker to supervisor, and from supervision to entry-level management. (2)

See University Studies (UI) listings for description of: UI 447. *Globalism and Justice* (3)

Sociology (SI, SO)

The major in Sociology requires an elective sequence of courses to be chosen by the student in consultation with a faculty advisor at the end of the sophomore year. In addition to further general study in sociology, the elective sequences include applied sociology, criminology/deviant behavior, family, pre-law and sociology of work and business.

SI 496. Sociology Internship.

Internship with a public or private agency providing first hand experience in the application of sociological skills. Prerequisites: 24 hours in SO courses; SO 345; SO 490. (6)

SO 102. Society, Culture and Social Behavior.

A series of lectures, projects and group discussions analyzing the impact of society and culture on human social behavior. (University Studies course) (3)

SO 120. (SO 220) Cities and Society.

Analysis of urbanization, including city life and problems, land use patterns, and the future of the city. University Studies course (3)

SO 200. Introduction to Social Organizations.

An overview of sociological principles for majors, minors, and others interested in a general understanding of the discipline. (3)

SO 205. Social Problems in America.

Examines the causes and consequences of societal problems such as crime, delinquency, racism, and poverty. (3)

SO 206. Social Problems of Childhood.

Sociological perspective on social problems experienced by infants, young children and adolescents. (3)

SO 225. Sociology of Sport and Leisure.

Sport and leisure as the object of sociological analysis with emphasis on sport in the American society. (3)

SO 240. Interpretation of Data.

A non-mathematical introduction to understanding numerical information as appearing in crime rates, opinion polls, marketing reports, consumer information, and the like. (3)

SO 242. (Cross-listed as AN 242.) Statistics for Social Scientists.

Basic descriptive statistics in social science. Central tendency, dispersion, contingency, correlation, regression. Inferential statistics; parametric and non-parametric. (3)

SO 255. Special Topics in Sociology.

Study of specific topics affecting the complex relationships existing among human groups. (May be repeated for credit on different topics and issues.) (3)

SO 305. American Minority Relations.

Description and analysis of ethnic, racial, and religious group relationships. (3)

SO 325. The World of Work.

Analysis of industrial organizations, work environments and occupational subcultures. (3)

SO 326. Sociology of Educational Institutions.

Examines relationships of educational institutions to the student, the teacher, the educational program and society. (3)

SO 330. Sociology of Aging.

An introduction to gerontology, analyzing the aging process, its problems, and potential solutions. (3)

SO 333. Life, Death and Medicine: An Introduction to Health in America.

An introduction to medical sociology, including the social organization of hospitals, health professions, and community health. (3)

SO 345. (Cross-listed as AN 345.) Methods of Social Research.

Survey research methods. Observational, nonintrusive methods, and experimental design. Formulate problems, select appropriate method, analyze results and present findings. Prerequisites: SO 240 or SO 242. (3)

SO 346. (Cross-listed as AN 346.) Applied Social Research.

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Trains students to apply the most common quantitative and qualitative social research methods. Includes planning, managing, and presenting research. Prerequisite: AN/SO 345. (3)

SO 350. Sociology of Religion.

Examines the development and variability of religion, and its influence on society and social institutions. (3)

SO 355. Special Topics in Sociology.

Study of specific topics affecting the complex relationships existing among human groups. (May be repeated for credit on different topics and issues.) On demand. (3)

SO 360. Criminology.

A survey of crime in America, analyzing lawmaking, lawbreaking, and society's attempts to control and eliminate criminal behavior. (3)

SO 365. Juvenile Delinquency.

Examines causes, types, and rates of delinquency at home, school, community and in society. Evaluates delinquency prevention, control and treatment programs. (3)

SO 370. The Family.

Surveys the family as a structure common to all societies, emphasizing needs, changes, dating and mating, sexuality, child rearing, conflict and enrichment. (3)

SO 375. Collective Behavior.

Examines phenomena such as crowds, publics, fads, fashions, disasters, and social movements. Prerequisite: SO 101 or SO 102 or consent of instructor. (3)

SO 385. Family Violence.

A sociological analysis of violent behavior among significant others; looks at causes and consequences, prevention and treatment strategies. (3)

SO 386. Singles and Their Social World.

A sociological analysis of unmarried adults in social context; the nevermarried, the separated, divorced, and widowed. (3)

SO 387-389. Independent Study in Sociology.

Directed individual study of special interest areas in sociology. (1-3)

SO 430. Demography.

Past and present population theories, significance of various population characteristics, implications and resultant problems of worldwide population growth. (3)

SO 444. Deviant Social Behavior.

An examination of abnormal behavior as a product of the structure and process of one's social environment. Spring Semester only. (3)

SO 445. Evaluation and Applied Research.

Trains students in the most common methods used in research evaluation of social programs and policies. (5)

SO 455. Group Behavior.

Groups effects on individual behavior, leader effects, group effects on productivity, morale. Quality circles, conference management and task group leadership. (3)

SO 490. Development of Sociological Theory.

A study of major contemporary sociologists and their contributions. Prerequisites: SO 200; SO 240 or SO 242. (3)

SO 495. (Cross-listed as AN 495.) Senior Seminar.

Students will research and analyze an issue of sociological concern, with emphasis on bringing together theory and method in sociology. (3)

SO 570. Sociology of the Child.

Child behavior, development of a self in the human infant through the beginning of the adolescent years. Prerequisite: SO 102 or SO 200. (3)

See University Studies (UI) listings for description of:

UI 338. Rural Sociology. (3)

UI 339. Indians of North America. (3)

Spanish (SN)

SN 001. Spanish Exit Exam.

All majors are required to enroll in this non-credit-bearing exam during their senior year. At the time of the exam, students must present their portfolio containing documents they have been accumulating in their major throughout their undergraduate career. The course number SN 001 will appear on the Degree Audit. Prerequisite: Students must have completed all coursework in Spanish or be in their last year of completing the coursework. (0)

SN 100. Spanish Language and Culture I.

Acquisition of an appreciation of the culture of Spanish-speaking peoples and study of speaking, understanding, reading, and writing Spanish. (University Studies course) (3)

SN 120. Spanish Language and Culture II.

Continued study of Spanish speaking peoples through the practice of speaking, understanding, reading, and writing Spanish. Prerequisite: SN 100 or equivalent. (University Studies course) (3)

SN 200. Spanish Language and Culture III.

Continued study of Spanish language and culture. Cultural, conversational, and structural activities leading to increased proficiency and cross-cultural awareness. Prerequisite: SN 120 or equivalent. (University Studies course) (3)

SN 220. Hispanic Literature.

Designed to develop the ability to read Hispanic literary texts; to acquaint students with a selection of major Hispanic authors; to introduce the basic concepts of literary analysis; and to increase the ability to speak and understand Spanish through class discussions in Spanish. Prerequisite: SN 200. (University Studies course) (3)

SN 300. Spanish American Culture.

Introduction to Spanish American Culture, from pre-Colombian culture to the present century. Prerequisite: SN 220. (3)

SN 301. Intermediate Spanish Composition.

Practice of the written language through the study of style and composition. Prerequisite: SN 220. (3)

SN 302. Experiencing Spanish Language and Culture.

Sharing a residence hall (one semester) with an international, native Spanish-speaking student. Prerequisites: Limited to non-native, Spanish-speaking students concurrently enrolled in a Spanish class (200-level or above) living with native Spanish-speaking roommate in designated residence hall; cum. GPA 2.0 or better. (1)

SN 305. Conversational Spanish.

Practice in the spoken language through class discussions and prepared talks. Prerequisite: SN 220. (3)

SN 306. Civilization of Spain.

Survey of historical and literary background of Spanish civilization and culture. Prerequisite: SN 220. (3)

SN 316. Commercial Spanish.

A business and professional course for the practical application of Spanish. Prerequisite: SN 220. (3)

SN 330. Spanish Grammar.

Review of the elements of Spanish grammar and study of the essential structures of the language. Prerequisite: SN 220. (3)

SN 335. Critical Readings in Hispanic Literature.

A critical study of the four major literary genres (narrative, poetry, drama, and essay) written in the Spanish language. Prerequisite: SN 220. (3)

SN 400. Special Topics: Spanish.

Designed to cover a variety of knowledge and skills, using a range of topics pertaining to the Spanish-speaking world. Taught in Spanish. May be repeated once for credit. Prerequisite: SN 220. (3)

SN 402. Independent Study in Spanish.

Advanced-level study of language, culture, or literature for Spanish majors. May be repeated once for credit. Prerequisites: SN 220; consent of department. (3)

SN 403. Survey of Spanish Literature I.

From the Middle Ages to the 18th century. Prerequisites: SN 220. (3)

SN 404. Survey of Spanish Literature II.

From the 18th century to the present. Prerequisites: SN 220. (3)

SN 410. Novel of the Golden Age.

Special emphasis on Don Quixote. Prerequisites: SN 220. (3)

SN 425. Contemporary Spanish Literature.

Study of lives and works of modern Spanish authors. Prerequisites: SN 220. (3)

SN 430. Spanish American Literature I.

Representative authors from the pre-Colombian period to the early 19th century. Prerequisites: SN 220. (3)

SN 435. Spanish American Literature II.

Representative authors and literary movements from 1888 to present. Prerequisites: SN 220. (3)

SN 495. Foreign Language Internship in Spanish.

Work experience using Spanish in a professional setting in a business or agency. Prerequisite: declared Spanish major; Junior standing, with completion of a minimum of 24 credit hours in Spanish; minimum 2.5 GPA and 3.0 in Spanish; a level of proficiency in Spanish appropriate to the professional setting as evaluated by the departmental assessment procedures; approval of the Department of Foreign Languages. (3)

SN 530. Advanced Spanish Conversation and Composition.

Intensive oral practice and composition designed to meet professional requirements, as well as personal

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needs. Prerequisite: Two courses of advanced sequence. (3)

SN 541. Spanish Writing Skills.

Course designed for upper level students who need a strong background in Spanish written expression. Prerequisite: Two courses of advanced sequence. (3)

Sport Management (SM)

SM 360. Sport Governance and Event Management.

Prepares the prospective sport manager in the governance of sport organizations and the management of sport related events. Prerequisite: PE 238 or consent of instructor. (3)

SM 370. Sport Management Practicum.

Varied structure and setting, primarily off-campus observing and providing assistance to a profession of student's interest. One hour seminar and 4 hours of field work per week. Credit/no credit course. Prerequisites: Sport Management student; 15 hours approved coursework; cumulative GPA of 2.3; consent of instructor. (3)

SM 455. Sport-Related Venue Design and Operation.

Prepares the prospective sport manager in the design and management of sport related facilities. Prerequisite: SM 460 or consent of instructor. (3)

SM 465. Sport Management Senior Seminar.

This course serves as a component of the capstone experience for sport management majors. Prerequisite: consent of instructor. (1)

SM 470. Sport Management Internship.

Internship with approved professionals in selected sport management setting. Culminating practical experience for sport management students. Prerequisites: Sport Management student with 75% of all coursework completed; cumulative GPA of 2.4; consent of instructor. (12)

SM 540. Legal Aspects of Sport and Physical Activity.

This course is designed to introduce the student to the various legal principles applicable to the sport industry. (3)

SM 570. Management and Leadership in Sport Organizations.

This course will provide students with the opportunity to understand and apply contemporary management concepts to the operations of sport organizations. (3)

Technical Graphics (TG)

TG 100. Introduction to Drafting.

Basic elements of drafting for students who have not taken drafting before or for students who need to sharpen their abilities. Topics include: instruments, orthographic projection, sketching, dimensioning, sections, scales and measurement, missing line problems, and geometric construction. This course is recommended for Interior Design majors. (3)

TG 120. Computer Aided Engineering Graphics.

Use of conventional and computer-aided drafting techniques, electronic hardware and systems to solve problems in Engineering Graphics. Orthographic projection, sketching, lettering, dimensioning, section views, geometric constructions and auxiliary views will be covered. (3)

TG 125. Print Reading for Industry.

Industrial drawings, pictorial sketching, symbols, geometric dimensioning, tolerancing, surface finishes, threads, fasteners, gears, sectional views, tooling and cams. Prerequisite: TG 100 or TG 120 or consent of instructor. (3)

TG 126. Computer Assisted Drafting.

Use of computeraided design software, hardware and systems to solve problems in graphics. Using AutoCAD to do: simple architectural drawing, basic floor plans, pictorials, dimensioning, elevations, and symbols will be covered. Prerequisite: TG 100 or consent of instructor. (3)

TG 170. Introduction to Graphics.

Familiarize the student of technical graphics with offset duplication, finishing processes, photography, drafting, screen printing, digital page layout and composition, electronic communication, and digital duplication. (3)

TG 220. Solid Modeling and Rapid Prototype.

Use of advanced computer aided design and drafting software, hardware, and systems to produce three dimensional drawings, renderings and actual physical prototypes of parts and assemblies. Prerequisites: TG 120 or TG 126. (3)

TG 272. Electronic Publishing.

The use of electronic equipment and software for the preparation of copy, including design, editing, and type-setting. Prerequisite: TG 170 or consent of instructor. (3)

TG 274. Photography Fundamentals.

Deals with the art of producing aesthetically pleasing photographs while practicing the requisite technical skills. (3)

TG 320. Architectural Drawing I.

Detailed working drawings of residential buildings including: site, foundation, floor, elevations, sections. Study of graphics conventions, architectural lettering, tracing, blue-line printing, and an introduction to computer use in architecture. Prerequisite: TG 100 or consent of instructor. (3)

TG 322. Architectural Drawing II.

Continuation of detailed sets of working drawings of a residential building including electrical, plumbing, heating, solar design and presentation problems. Prerequisite: TG 320. (3)

TG 324. Design Modeling and Processes.

A study of how parts are produced. Basic industrial processes and materials are studied and used to produce mechanical models and projects. Prerequisites: TG 220. (3)

TG 326. Industrial Production Drafting.

Using CAD to solve advanced drafting problems. Modern computer drafting applications, i.e., CAD/Database applications. Isometric drawings, dimensioning and 3-D solid modeling applications. Prerequisite: TG 220. (3)

TG 374. Digital Imaging & Editing.

This course focuses primarily on the acquisition and editing of digital images. The digital still camera and its operations are stressed along with computer image editing software. Prerequisite: TG 170. (3)

TG 376. Multi Media & Animation.

This course is designed as an introduction to multimedia software and hardware. Topics to be covered are the integration of text, technical graphics, sound, and animation. Prerequisite: TG 374 or consent of instructor. (3)

TG 422. Multicolor Print Processes.

This course focuses primarily on the advanced printing process of producing multicolor products. These processes are practiced with screen printing and off-set printing techniques. Pad printing processes are also included. Prerequisite: TG 170. (3)

TG 472. Advanced Graphics Projects.

Use of various graphics methods to solve advanced design problems set by the faculty. Self directed problem solving, reading, and creative techniques will be stressed. Prerequisites: TG 120, TG 170, TG 272, TG 374, TG 376 & TG 422; OR TG 120, TG 220, TG 324 and TG 326; OR consent of instructor. (3)

Tesol (TL)

TL 105. English Language Skills for International Students.

Instruction and practice in improving listening skills in English. Placement based on score on the University ESL placement tests. (3)

TL 110. Basic Composition for International Students.

Development of basic writing skills necessary for success in EN 100 and EN 140. Combines classroom work in small groups with lab work in individual tutorials which meet for 30 minutes per week. Placement based on score on the University ESL placement tests. (3)

TL 111. Speaking Skills for International Students.

Designed to teach basic classroom communication strategies to the non-native speaker of English. An individualized accent reduction lab accompanies this course. Placement based on score on the University ESL placement tests. (3)

TL 112. Academic Reading for the Non-Native Speaker.

Integrates language and content for academic settings. Reading strategies, problem solving and critical thinking skills, language and content are emphasized. Placement based on score on the University ESL placement tests. (3)

TL 425. Materials and Assessment for English as a Second Language Classroom.

Materials development and adaptation for the ESL/EFL classroom; development of a variety of assessment measures. Prerequisite: TL 585. (3)

TL 525. English as a Second/Foreign Language: Learning and Teaching.

Basic theories and methods of teaching ESL/EFL. Includes work with ESL students and description of per-

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sonal theory and method of ESL teaching. Prerequisites: EN 140; any 200-level literature course. (3)

TL 530. Practicum for Teaching English To Speakers of Other Languages.

Provides students with practical classroom experience in teaching English to Speakers of Other Languages (ESOL). Pre or corequisites: TL 525; TL 585. (3)

TL 585. Methods and Techniques for Teaching ESOL.

Introduces student to techniques for teaching ESOL. Includes work with ESOL students, class observations, and workshop experience. Prerequisites: EN 140; any 200-level Literature course; TL 525; or consent of instructor. (3)

Theatre (TH)

TH 100. Theatre Appreciation.

Promotes an appreciation for and an understanding of theatre in contemporary society. Emphasizes the script, artist, audience interaction. (University Studies course) (3)

TH 101. (TH 200) Acting for Non-Majors.

Acting as a form of self-expression emphasizes personal awareness, relaxation, concentration, coordination and integration, vocal skills, and scene study. (University Studies course) (3)

TH 105. (Cross-listed as DA 105) Rehearsal and Production I.

Training and practical hands-on experience in performance, crew work, and all aspects of technical production through active participation in the mounting of departmental productions. May be repeated for credit. (.5)

TH 115. Acting I.

The first of a three-year Stanislavskibased acting sequence – including theory, exercises, and scene study – for students who are considering acting as a profession. Prerequisite: Theatre and Dance major or minor; or consent of instructor. (3)

TH 120. Acting II.

A continuation of the theories and practices developed in TH 120, culminating in a public showcase at the end of the semester. Prerequisite: TH 115; or consent of instructor. (3)

TH 140. (TH 240) (Cross-listed as SC 240.) Oral Interpretation of Literature.

Theory and practice of the oral performance of literature. (University Studies Course) (3)

TH 155. Makeup.

A study of designing and applying makeup for the stage/television/film, including exploration into theory, character analysis, materials, and techniques. Lecture and lab sessions plus production work required. (2)

TH 215. (TH 246) Voice and Diction.

A basic study of vocal mechanics, common vocal problems, and methods of voice improvement for public performance. Prerequisites: TH 115; TH 120; or consent of instructor. (3)

TH 220. Stage Combat I.

Emphasis on safety, methods of staging, falling and rolling, unarmed stage fighting, and basic swordplay. (3)

TH 230. Performance Studies.

Creation and performance of aesthetic texts that range from storytelling to performance art. Prerequisites: TH 115; TH 140; or consent of instructor. (3)

TH 231. (TH 210) Stagecraft I.

The technical aspects of scenery construction (carpentry, painting, properties, sound, theatre organization, etc.) and lighting, which contribute to a unified approach in producing a play. Lab and production work required. (3)

TH 251. (TH 255) Costume Construction.

A study in basic theatre and dance costume construction, including an examination of shop organization, wardrobe maintenance, fabrics, tools, patterns and sewing techniques. Lecture and lab sessions plus production work required. (3)

TH 265. Drawing for the Theatre.

The understanding of technical drawing for the theatre. Computer aided and non-computer aided drafting, drawing conventions, tools, symbols, styles, as well as applications. Introduction and manipulation of the basic elements of design (line, shape, color, form, etc.). Prerequisites: TH100; TH 231; or consent of instructor. (3)

TH 285. (TH 380) Script Analysis.

Investigation and application of contemporary, formal approaches to the criticism and analysis of dramatic literature. Prerequisite: TH 100. (3)

TH 305. Rehearsal and Production II.

Advanced laboratory course exploring various areas of performance, crew work, and all aspects of technical production through active participation in the mounting of departmental productions. May be repeated for credit. Prerequisites: Two credit hours of TH 105 and/or DA 105; or consent of instructor. (5)

TH 310. Solo Performance.

The process of creating and staging the one person show. Prerequisites: TH 115; TH 120; TH 230; or consent of instructor. (3)

TH 315. (TH 352) Stage Movement.

Systematic exploration of personal awareness through movement exercises and experiences integrated with the practice of physical approaches to the creation of dramatic characters. Prerequisites: TH 115; TH 120; or consent of instructor. (3)

TH 320. Stage Combat II.

Continuation of Stage Combat emphasizing advanced stage swordplay practice. Prerequisite: TH 220. (3)

TH 325. Auditioning.

Investigates audition, cold-reading, and interview techniques, examines marketing strategies, and explores various solo exercises. Prerequisites: TH 115; TH 120; or consent of instructor. (3)

TH 330. Acting III.

An advanced Stanislavski and RSCbased exercise/scene study course designed to give actors assistance in handling period texts, particularly those written by William Shakespeare. Prerequisites: TH 115; TH 120; or consent of instructor. (3)

TH 331. Stagecraft II.

Advanced topics in stage technology, including: advanced rigging techniques, production planning, electronic controls, pneumatics, hydraulics, structural design for the stage, welding, and other state-of-the-art technologies. Lab required. Prerequisites: TH 231; TH 265; or consent of instructor. (3)

TH 350. Stage Lighting I.

Principles of stage lighting, use of equipment, fundamentals of electricity, and design of lighting for the stage. Prerequisite: TH 231; or consent of instructor. (3)

TH 351. (TH 405) Costume Design I.

Study in problemsolving and design-thinking for costume designers, organized around a study of period fashions. Prerequisites: TH 251; TH 265; or consent of instructor. (3)

TH 361. (TH 392) Scene Painting.

A study of theatrical painting techniques. Lab and production work required. Prerequisite: TH 231; or consent of instructor. (3)

TH 371. (TH 360) Scene Design I.

A study and application of design principles geared to the creation of stage environments for play production. Prerequisites: TH 231; TH 265; or consent of instructor. (3)

TH 375. Theatre Management.

Study of managerial duties, supervisory responsibilities, and organizational skills necessary in publicity, front of house/box office, and backstage management as it pertains to theatrical and dance production. Prerequisites: TH 100; TH 265; or consent of instructor. (3)

TH 385. (TH 410) Directing I.

A fundamental course designed to enhance the student's understanding of the practical as well as the artistic skills of directing the theatre. Prerequisites: TH 100; TH 115; TH 231. (3)

TH 390. (Cross-listed as DA 390) Topics in Theatre and Dance.

Consideration in depth of subject matter ordinarily unavailable in the departmental curriculum. On demand. (3)

TH 395. Period and Style.

A survey of historical periods and artistic styles influence on costume and architecture with an emphasis placed on the relevance for theatre and dance designers and directors/choreographers. (3)

TH 400. Senior Recital. (Cross-listed as DA 400 and MU 400)

A public recital demonstrating ability to perform a variety of musical theatre genres. Required of all BS Performing Arts degree students. Prerequisites: senior status; or consent of performing arts faculty member. (2)

TH 450. Stage Lighting II.

Advanced topics in stage lighting design and technology, including: computer controlled lighting, moving lightings, DMX 512, design software. Lab required. Prerequisites: TH 265; TH 350; or consent of instructor. (3)

TH 451. Costume Design II.

Advanced study in rendering style and problem solving for costume designers, including survey of costume design opportunities in theatre, dance, film and other venues. Prerequisite: TH 351; or consent of instructor. (3)

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TH 461-463. (Cross-listed as DA 461-463) Independent Study.

Individual study in theatre. (1-3)

TH 471. Scenic Design II.

Advanced study and application of design principles geared toward the creation of stage environments for Shakespearean productions, multiset plays, musical theatre and dance. Prerequisites: TH 231; TH 265; TH 371; or consent of instructor. (3)

TH 475. Ensemble Theatre: Scripting/Staging Alternative Texts.

Exploration into the theory and practice of scripting and staging non-traditional theatre texts. Prerequisites: DA 185; TH 140; TH 385. (3)

TH 485. Directing II.

A continuation of the theories and practices developed in TH 385 along with an introduction to various styles and alternative directing techniques. (3)

TH 490. (TH 550). Theatre History I.

Development of drama and theatre from ancient Greece to the English Restoration. Prerequisite: TH 290; or consent of instructor. (3)

TH 495. (TH 551). Theatre History II.

Development of drama and theatre from the English Restoration to the contemporary era. Prerequisite: TH 290; or consent of instructor. (3)

TH 498. (Cross-listed as DA 498) BFA Project.

The preparation, presentation, and assessment of a major artistic project. (2)

TH 499. (TH 425). (Cross-listed as DA 499)

Internship.

Practical involvement in a performing arts company/venue. Course will be graded on a credit/no credit basis. (4)

TH 540. Creative Dramatics for Children.

Exploration of techniques of creative dramatics as they can be used by classroom teachers. Prerequisite: LI 543. (3)

See University Studies (UI) listings for description of:
UI 384. Musical Theatre-Origins to the Present (3)

University Studies (UI)

UI 100. First Year Seminar.

An academic skills-centered seminar which introduces students to the University Studies Program and the value of liberal education while addressing one of a variety of themes. See First Year Experience website for themes (<http://ustudies.semo.edu/UI100/>). Required of all students entering the University with fewer than 24 degree credit hours. (3)

UI 300. Drugs and Behavior.

An interdisciplinary coverage of psychoactive drugs from the perspectives of psychopharmacology, history, and criminal justice. Prerequisites: Behavioral Systems; Social Systems; and Development of a Major Civilization. (University Studies course) (3)

UI 301. Managerial Communication Processes.

An examination and application of theories and skills necessary for effective managerial communication in organizations. Prerequisites: SC 105 (Oral Expression); or consent of instructor. (University Studies course) (3)

UI 302. Westward Movement: Development of American Regional Cultures.

Study of regional patterns that make up the fabric of American culture. Emphasis on historical and social factors in migrations. Prerequisites: Development of a Major Civilization and Social Systems. (University Studies course) (3)

UI 303. The Female Experience.

A seminar studying the past and present experiences of women in diverse cultures to enhance the human experience. Prerequisites: Oral Expression; Written Expression. (University Studies course) (3)

UI 304. The History and Culture of West Africa.

A study of West African history and culture from ancient times to the present. Prerequisite: Development of A Major Civilization. (University Studies course) (3)

UI 305. Judicial Reasoning.

A normative and descriptive examination of the role of courts in contemporary American society via the principles of judicial reasoning. Prerequisites: Junior standing; Logical Systems; Political Systems; Economic Systems. (University Studies course) (3)

UI 306. The Film as History and Literature.

Film as both historical and literary document from its origins to the present time in feature films, television and documentaries. Prerequisites: Written Expression; Literary Expression. (University Studies course) (3)

UI 307. Economic Geography.

Examination of economic development from a geographic perspective for three spatial levels: international, national, and metropolitan. Prerequisites: Economic and Social Systems. (University Studies course) (3)

UI 308. Cultural and Physical Landscapes of the World: A Geographical Analysis.

A geographical analysis of world landscapes utilizing physical, cultural, and economical concepts to illustrate complex interrelationships existing between various regions. One 2 hour lecture; one 3 hour activity lab. Prerequisites: Physical, Social, Economic Systems. (University Studies course) (3)

UI 309. Crime and Human Behavior.

An interdisciplinary study of the causes and effects of crime and delinquency. (University Studies course) (3)

UI 310. The American Musical Experience.

Musical experience of America in folk, ethnic, jazz, and pop music, in the fine arts tradition. Prerequisite: Ability to read music or MM 101. (University Studies course) (3)

UI 311. Masterpieces of the French Novel.

Analysis of representative masterworks of the French Novel; historical development of the genre; conducted in French. Prerequisites: FR 200 (Oral Expression); FR 220 (Literary Expression); Written Expression. (University Studies course) (3)

UI 312. Perspectives on the Present.

Contemporary issues will be analyzed and placed into historical perspectives. Emphasis on use of the historical method for analysis. Prerequisites: Junior standing; Development of Major Civilization, Social Systems, Behavioral Systems, Written Expression and Oral Expression; or consent of instructor. (University Studies course) (3)

UI 313. African American Literature and History.

A study of the historical and literary culture of African-Americans from African backgrounds to the present. Prerequisites: Written Expression; Development of A Major Civilization; Literary Expression. (University Studies course) (3)

UI 315. Electronics and Computers in Music.

Theoretical and 'hands on' experience with musical applications of electronics and computers. (University Studies course) (3)

UI 316. Contemporary Legal Studies.

An examination of current legal issues and the role of the American legal system in the resolution of those

issues. Prerequisite: Junior standing. (University Studies course) (3)

UI 317. Human Sexuality.

Study of human sexuality, emphasizing biological, psychological, and sociological aspects. Sexuality issues dealing with critical thinking and valuing will be emphasized. Prerequisites: Living Systems; Behavioral Systems; Social systems. (University Studies course) (3)

UI 318. Earth Science: A Process Approach.

A process-oriented investigation of the interrelationships among the earth sciences and their interaction with living systems. One 2 hour lecture; one 2 hour lab. Prerequisite: BS 218. (University Studies course) (3)

UI 319. Technology and Society.

The impact of technology on individuals and society through critical analyses of selected modern topics using communication and critical thinking skills. Prerequisites: Economic, Social Systems; Physical Systems; Political Systems. (University Studies course) (3)

UI 320 The Modern Presidency.

Examination of the modern American presidency from the combined perspectives of history, political science, and speech communication. Prerequisites: GH 105 (Development of a Major Civilization); SC 105 (Oral Expression); Political Systems. (University Studies course) (3)]

UI 322. International Political Economy.

Exploration of the interaction of political and economic forces as it affects international flows of goods, money, investments and technology. Prerequisites: Economic Systems; Political Systems. (University Studies course) (3)

UI 326. Australian Culture.

An introduction to the culture of Australia, with emphasis on the forces that have shaped their culture. Prerequisites: Artistic Expression; Literary Expression; Written Expression; Development of a Major Civilization; Social Systems. (University Studies course) (3)

UI 330. Experimental Methods in Physics and Engineering

I. Selected experiments in physics and engineering with emphasis on measurement system design, equipment selection, acquisition and evaluation of data, and report writing. One lecture and two two-hour labs. Prerequisites: Logical Systems (MA 134 or higher); PH121/021 or PH231/031. (University Studies course) (3)

UI 331. Biochemistry I.

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Structure and function of amino acids, proteins, lipids, and carbohydrates. Generation and utilization of energy in living organisms. Prerequisites: Living Systems; CH 343. (University Studies course) (3)

UI 332. Images of Women in Literature.

Studies the portrayal of women in literary works by male and female authors; focuses on feminist criticism and female stereotypes. Prerequisites: EN 140 and 200-level Literature course. (University Studies course) (3)

UI 336. Religion in America.

This course is a historical study of the social, political, and philosophical roles of religion in America. Prerequisites: Completion of the University Studies core curriculum or consent of instructor. (University Studies course). (3)

UI 337. Issues in 20th Century Architecture.

Analysis of the interrelational development of issues between twentieth century architecture and European/American civilization. (University Studies course) (3)

UI 338. Rural Sociology.

A study of rural society including social, cultural, and political factors which influence rural life. Prerequisites: Social Systems; Political Systems. (University Studies course) (3)

UI 339. Indians of North America.

A survey of Native American Indian cultures from the time of contact until the present which examines both traditional lifestyles and modern issues. (University Studies course) (3)

UI 340. Housing Perspectives.

Study of the relationship between humans and the built environment including social, psychological, economic and physical factors. Prerequisites: Behavioral Systems; Social Systems; Economic Systems; Political Systems. (University Studies course) (3)

UI 341. Victorian Studies: An Interdisciplinary Approach.

Examination of literary, political, and scientific achievements in 19th century England. Prerequisites: Literary Expression; Development of a Major Civilization. (University Studies course) (3)

UI 342. Modern Political Thought.

A critical historical analysis and philosophical examination of the normative concepts and ethical problems of modern political thought. Prerequisites: Behavioral Systems; Political Systems; Social Systems. (University Studies course) (3)

UI 343. Transcultural Experience.

A study of the influence of cultural diversity upon the professions and major fields, which culminates in a supervised on-site expedition to the culture/country. Prerequisites: Junior standing. (3)

UI 344. Plants and Humanity.

The psychological, physiological, and social responses of people to plants in their environment and the effects plants have on human health. Prerequisites: Artistic Expression; Behavioral Systems; Living Systems; Social Systems. (University Studies course) (3)

UI 345. Nonverbal Communication.

Study of nonverbal communication. Areas of study include body language, vocal cues, touching behavior, environmental factors, eye behavior, physical appearance. Prerequisites: Junior standing; Artistic Expression; Oral Expression; Behavioral Systems; Social Systems. (University Studies course) (3)

UI 347. Living in a Global Society.

A study of the interrelatedness of issues confronting the world and find action-oriented approaches to resolving them. Prerequisites: Social Systems; Behavioral Systems. (University Studies course) (3)

UI 349. Comparative Economic Systems.

How market, mixed, planned, and developing economic systems are organized and function to obtain major economic, political, and social goals. Prerequisites: Either EC 101 or EC 215; either PS 103 or PS 104. (University Studies course) (3)

UI 350. Middle East Politics.

A survey of social, economic, and international forces that influence politics of middle eastern societies with particular emphasis on Egypt, Israel, Syria, and Turkey. Prerequisites: Either PS 103 or PS 104; either Economic Systems or Social Systems. (University Studies course) (3)

UI 351. Public Opinion Management.

Exploration of the strategies and tactics that are used in public opinion management. Prerequisites: Behavioral Systems; Social Systems. (University Studies course) (3)

UI 352. Medical Ethics.

A study of the ethical questions that arise in the practice of modern medicine. Prerequisite: Junior standing or consent of instructor. (University Studies course) (3)

UI 354. Lifestyle Enhancement.

An interdisciplinary study of the psychology or health and lifestyle management. Prerequisites: Behavioral Systems; Social Systems. (University Studies course) (3)

UI 355. Consumer and the Market.

Interdisciplinary study of consumer interaction with the market and the economic, social political and psychological factors affecting consumers' decisions. Prerequisites: Economic, Political, Behavioral and Social Systems. (University Studies course) (3)

UI 357. Early American Political Thought.

A critical historical analysis and philosophical examination of the origins and development of early American political thought articulated in the classic works of significant American political theorists. (University Studies course) (3)

UI 358. Foundations of Political Thought.

A critical examination and study of ancient and medieval political thought articulated in the original classic words of significant philosophers. Prerequisites: Behavioral Systems; Political Systems; Social Systems. (University Studies course) (3)

UI 359. Consumers: Buying/Having/Being.

Examines consumption behavior with emphasis on the psychological, sociological, cultural, economic, and environmental influences. Reviews importance of products to consumers. (University Studies course) (3)

UI 360. Recycling and Waste Management.

Exploration of personal, institutional, and societal strategies for dealing with solid and toxic wastes. Prerequisites: Junior standing; Living Systems; Physical Systems. (University Studies course) (3)

UI 361. Contemporary Political Theory.

A critical historical analysis and philosophical examination of contemporary political thought and the origins and development of major political ideologies of the late 19th and 20th century. (University Studies course) (3)

UI 362. Contemporary French Culture.

A study of French society since 1945, including attitudes, achievements, institutions, and life styles of the French people. In English. Prerequisites: Development of a Major Civilization; Social Systems. (University Studies course) (3)

UI 366. Law and Economics.

An analysis of the application of economic principles to all aspects of law; including contract law, torts and criminal law. (University Studies course) (3)

UI 368. Mind, Meaning, and Value.

Exploration of the nature of mind, consciousness, and personal identity through readings in philosophy, literature, and the behavioral sciences. Prerequisites: Junior standing; completion of University Studies core curriculum. (University Studies course) (3)

UI 369. Vice and Virtue.

An exploration of the nature and components of moral character, their patterns of development, and relation to ethical ideals. (University Studies course) (3)

UI 370. Media Ethics.

A study of the ethical questions that arise in modern mass media with emphasis on journalism, advertising and entertainment. Prerequisite: Junior standing or consent of the instructor. (University Studies course) (3)

UI 371. Government and Business.

Government regulation of business in the United States with emphasis on differing economic and political perspectives concerning such regulation. (University Studies course) (3)

UI 372. Earthquakes and Society.

Study of earthquakes, their causes, occurrence, physical properties, scientific use, and their effects on human society. (University Studies course) (3)

UI 373. Earth/Life Thru Time.

Reading and evaluating the geologic record of biologic and geologic events with chronicles of life and earth interaction through time. (University Studies course) (3)

UI 375. European Film.

Study of major European films and film makers in the context of French, German, and Spanish cultures. (University Studies course) (3)

UI 378. Physics of Star Trek.

How the universe as we know it compares with the universe of Star Trek and other popular science fiction. Prerequisites: Written Expression (EN 140 or PL 115), Oral Expression, Physical Systems (one of the following: PH 106, PH 109 or higher, CH 180, CH 181, CH 185 or higher), and Logical Systems (MA 134 or higher). (University Studies course) (3)

UI 382. History and Philosophy of the American Mass Media.

An historical investigation of American mass media and the philosophies and concepts underlying their development from colonial to present times. Prerequisites: MC 101 with a grade of 'C' or better; University Studies core. (3)

UI 384. Music Theatre—Origins to the Present.

The musical theatre genre is traced via close examination of its origins, evolution, and maturation as a living, contemporary art form. (University Studies course) (3)

UI 387. Environmental Law and Public Policy.

Introduction to formulation and provisions of environmental regulations and policies with an emphasis on major federal legislative acts. (University Studies course) (3)

UI 390. The Film Musical.

A study of the integrated components of dance, music and theatre in film musicals, placed within their American socio-historical contexts. (University Studies course) (3)

UI 392. Age of Romanticism.

This course will examine the Romantic movement through study of eight masterpieces of Romantic music in the context of their times. Prerequisites: MH 251 and MH 252; or MU 181 or MU 182 by permission of instructor(s); or by permission of instructor(s). (University Studies course) (3)

UI 393. Age of Modernism.

This course will examine Modernism in music and culture through an in-depth study of 13 masterpieces of music in the context of their times. Prerequisites: MM 203 and MM 207; or MU 181 or MU 182 by permission of instructor(s); or by permission of instructor(s) (University Studies course) (3)

UI 394. Music and Culture.

This course will investigate the development of music between 1600-1750 and its place in the culture of Western Europe and the New World. Prerequisites: MH 251 and MH 252 or MU 181 and MU 182 or by permission of instructor. (University Studies course) (3)

UI 396. The Age of Beethoven.

This course will examine Beethoven's music and the cultural context in which it developed. Prerequisites: MM 203 and MM 207; MU 181 or MU182 by permission of instructor; or permission of instructor. (University Studies course) (3)

UI 397. Music in Medieval and Renaissance Culture.

This course will investigate the development of music between 900-1600 and its place in the culture of Western Europe. Prerequisites: MH 251 and MH 252 or MU 181 and MU 182 or by permission of instructor. (University Studies course) (3)

UI 400. Business and Ethics.

A study of the ethical questions that arise in the context of doing business in modern society. Prerequisites: Senior standing; completion of University Studies core curriculum. (University Studies course) (3)

UI 401. American Cultural Landscapes: Regional Architecture and Settlement Systems.

Study of American regional landscapes including house types, barns, and other folk structures. Prerequisites: Artistic Expression; Development of a Major Civilization; Social Systems. (University Studies course) (3)

UI 402. Music in World Cultures.

A study and comparison of the music, instruments, style, and the music making process of diverse world cultures. Prerequisites: MM 101 or equivalent note reading ability; Development of a Major Civilization. (University Studies course) (3)

UI 403. Aesthetics and Human Values.

The nature of aesthetic experience and its relation to fundamental values in religion, morality, history, literature, science, economics, and politics. Prerequisites: Junior standing; completion of University Studies core curriculum. (University Studies course) (3)

UI 406. Transforming the Female Experience.

Examination of multidimensional issues involved in current actions and potential strategies for transforming the human experience of women. Prerequisites: Oral Expression; Written Expression; UI 303; or consent of instructor. (University Studies course) (3)

UI 407. Rational Endeavor.

A study of rationality and its role as a framework for evaluating beliefs, actions and decisions in general. Prerequisites: Completion of University Studies core curriculum. (University Studies course) (3)

UI 410. Manufacturing Research in a Global Society.

The study of national and international trends in manufacturing and production through the application of research and development techniques. Prerequisite: Completion of the University Studies core curriculum. (University Studies course) (3)

UI 412. American Health Care Systems and Issues.

A study of current concerns of the health and well-being of populations. Consumer concerns, bioethical issues, and health professional functions are addressed. Prereq-

uisites: Senior standing; completion of all University Studies 100, 200, and 300 level requirements or consent of instructor. (University Studies course) (3)

UI 414. The American Temper: Ideas in Conflict.

An examination of the conflict of ideas in the literature and the economic, social and political systems of American Civilization. Prerequisite: Junior standing. (University Studies) (3)

UI 415. Science and Religion.

An integration of scientific and religious knowledge through reading and discussion related to epistemology, origins, process, and ethics. Prerequisites: Completion of University Studies core curriculum or consent of instructor. (University Studies course) (3)

UI 416. Planetary Exploration: From Galileo to the Present and Beyond.

Examination of major developments contributing to our understanding of the solar system and their impact on the future of mankind. Prerequisite: Completion of University Studies core curriculum. (University Studies course) (3)

UI 417. Images of Britain.

Evolution of the cultural and aesthetic landscapes of the English people from the Celts to the Industrial Revolution. Topics include: British architecture and literature. Prerequisites: Completion of University Studies core curriculum. (University Studies course) (3)

UI 418. The European Mind.

An examination of the origin and development of modern European thought and culture. (University Studies Course) (3)

UI 422. Scientific Reasoning.

Critical study of the reasoning used in the discovery and justification of scientific theories. Prerequisite: Completion of University Studies core curriculum. (University Studies course) (3)

UI 423. Political Communication.

An introduction to communication principles and practices central to election campaigns through the study of political campaigns as communication phenomena. Prerequisite: 3 hours in Speech Communication. University Studies course) (3)

UI 425. Persuasion.

Principles, techniques, and theories used to influence the behavior of others through oral communication, with special emphasis on the analytical tools necessary to evaluate persuasive appeals more responsibly. Prerequisite:

Junior standing; completion of University Studies core curriculum. (University Studies course) (3)

UI 427. Service and Community.

This course provides theoretical investigation of and the opportunity for community service through volunteerism. Includes a one-hour integrated lab. (University Studies course) (3)

UI 429. Environmental Ethics.

Comprehensive study of the ethical, social, scientific, and cultural problems associated with the use and abuse of natural resources. Prerequisites: Completion of University Studies courses in Logical Systems, and either Physical or Living Systems categories. (3)

UI 430. Aging Successfully.

A study of the interaction of historical, economic, and political influences upon the biological and psychological nature of individuals aging into the twenty-first century. (University Studies course) (3)

UI 431. Shakespeare's Tragedies and the Human Condition.

An interdisciplinary study of seven or more plays by Shakespeare as they relate to contemporary issues and events. (University Studies course) (3)

UI 432. Shakespeare's History Plays and Comedies and the Human Condition.

An interdisciplinary study of seven or more plays by Shakespeare as they relate to contemporary issues and events. (University Studies course) (3)

UI 433. Aesthetics of Movement: Athletic Dancers & Artistic Athletes.

A critical investigation into the aesthetic difference, function, significance, and value of the movement disciplines of dance and sport. Prerequisite: 45 credit hours. (University Studies course) (3)

UI 435. Literature of Sport.

The literary and sociological study of the role, both positive and negative, sport plays in American society. (University Studies course) (3)

UI 436. Agricultural Ethics.

A study of agricultural issues and public policy using knowledge and methods from agriculture and social ethics. (University studies course) (3)

UI 438. The Nature and Growth of Mathematical Thought.

An emphasis on mathematical ideas as a growing, changing human endeavor, influencing the history of societies including today's technological culture. Prerequisites: Development of a Major Civilization; MA 139 or MA 140. (University Studies course) (3)

UI 440. The Holocaust.

A critical analysis and examination of some of the fundamental political philosophical questions, normative concepts and ethical problems of the Holocaust. (University Studies course) (3)

UI 443. Professional Experience in Chemistry.

Individualized study of and experience with the effective and appropriate design, execution, and reporting of chemical investigations. Two lecture hours and 2 lab hours. Spring only. Prerequisites: Completion of University Studies core to include CH 180 or CH181. (University Studies course) (3)

UI 444. Americans and Their Institutions.

Study of the interdependence between basic psychological processes and the opinions of Americans toward their public institutions. Prerequisites: Natural Systems and Human Institutions. (University Studies course) (3)

UI 447. Globalism and Justice.

Study of the global economy from a social justice orientation emphasizing the exploitation and disempowered status of the world's poor. Prerequisite: Completion of University Studies core curriculum. (University Studies course) (3).

UI 448. American Revolution Experience.

Study of the American Revolution from 1765 to 1788 from the perspectives of the ethnic, cultural and political groups that experienced it. Prerequisites: Development of Major Civilization category; Artistic Expression; Literary Expression. (University Studies course) (3).

UI 450. Capstone Experience.

Group-based solution of open-minded problems based on cases or scenarios from the "real world," requiring interaction among students with diverse training. (3)

UI 500. History of the English Language.

Origin and development of the English language, including grammatical forms, principles of sound change, and growth of English vocabulary. (University Studies course) (3)

UI 501. Principles of Language.

Study of nature of language, including its systems, role in society, historical changes, writing systems, the lan-

guage acquisition process, biological foundations, and machine languages. (University Studies course) (3)

UI 503. Age of Alexander the Great.

The civilization and physical geography of the world of Age of Alexander the Great. (University Studies course) (3)

Women's Studies (WS)

WS 100. Introduction to Women's Studies. (3)

WS 300. Seminar: Issues in Women's Studies. (3)

Writing Proficiency (WP)

WP 003. 75 Hour Writing Proficiency Exam.

All students are required to enroll for this test in the next semester after they have completed 75 semester hours. A passing score on this test is required for graduation. Prerequisites: University Studies Written Expression; WP 002.

NOTE: Students must present two photo ID's for admission to the testing site.

Zoology (ZO)

ZO 200. Animal Biology.

Diversity of animal life with emphasis on invertebrates. Comparison of the major animal phyla emphasizing integration of function and form. Two lectures and one 2-hour lab. Prerequisite: BI 190. (3)

ZO 315. Comparative Anatomy.

Intensive study of selected organ systems of lower chordates and representative vertebrates. One lecture and two 2-hour labs. Prerequisite: ZO 200 or equivalent. (3)

ZO 331. Animal Physiology.

Examination of functioning systems of vertebrates. Attention is given to the adaptiveness of these systems and to their integrated functioning. Two lectures and one 2-hour lab. Prerequisites: ZO 200; CH 341 and CH 342. (3)

ZO 414. Developmental Biology.

The differentiation of germ layers into tissues and organs with an emphasis on genetic processes and morphological patterns. Two lectures and one two-hour lab. Prerequisites: BI 300; BI 381. (3)

ZO 420. Animal Behavior.

Evolutionary approach to the study of behavior. Topics include: historical development of ethological theory, ontogeny of behavior, and animal social behavior. Two lectures and one 2-hour lab. Prerequisite: ZO 200 or consent of instructor. (3)

ZO 441. Parasitology.

Introduction to parasitism. Protozoans, platyhelminths, and nematodes are stressed, particularly host-parasite relationships and life cycles. One lecture and two 2-hour labs. Prerequisite: ZO 200 or equivalent. (3)

ZO 459. Mammalogy.

Introduction to the ecology, zoogeography, structure/function, evolution, and behavior of mammals. One lecture and two 2-hour labs. Prerequisite: ZO 200. (3)

ZO 460. Herpetology.

An introduction to the biology of the amphibians and reptiles. Evolutionary history, ecology, behavior, physiology, and distribution. Three lectures. Prerequisite: ZO 200 or consent of instructor. (3)

ZO 465. Entomology.

Insect biology, behavior, control, structure, diversity, physiology and additional selected topics in entomology. Two hours lecture and one two hour lab. Prerequisite: ZO 200 or equivalent. (3)

ZO 466. Ornithology.

The physical structure, habits, geographical distribution, physiology, and evolution of birds. Identification of birds typical of the region. One lecture and two 2-hour labs. Prerequisite: ZO 200 or equivalent. (3)

ZO 469. Vertebrate Adaptations.

Survey of vertebrate adaptations to various environments. Topics include mechanistic and morphological adaptations for feeding, thermoregulation, locomotion, reproduction, and sensory systems. One lecture and two 2-hour labs. Prerequisite: ZO 200 or consent of instructor. (3)

ZO 478. Ichthyology.

An introduction to the evolution, zoogeography, taxonomy, and ecology of fishes, with particular reference to Missouri fishes. Two lectures and one 2-hour lab. Prerequisite: ZO 200 or consent of instructor. (3)