

Classification of Courses

Numbering System

The college course-numbering system is as follows:

099 noncredit courses

100–200 freshman- and sophomore-level courses

300–400 junior- and senior-level courses

Courses offered at the 100 level and 200 level are deemed to be introductory in nature, requiring little or no prerequisite disciplinary preparation in terms of skill or knowledge for student entry into and subsequent success in the course. Courses at the 300 level and 400 level are deemed to be more advanced, frequently requiring prerequisite disciplinary or skill preparation for student entry into and subsequent success in the course.

Responsibility for recommending appropriate course levels lies with the department offering the course; if initially endorsed by the appropriate school, the recommendations are forwarded through the schools to the Academic Council for approval for inclusion in the College Catalog

Prefixes

Three-letter prefixes designate the areas or disciplines in which courses reside. Those prefixes are used within the schools' detailing of

ACC Accounting	GOV Government and International Studies
ANS Animal Science	HIS History
ANT Anthropology	HON Honors
ART Art	HPE Health and Physical Education
AST Astronomy	HUM Humanities
BCC Berry College Courses	IDS Interdisciplinary Studies
BIO Biology	KIN Kinesiology
BUS Business	LCS Latin American and Caribbean Studies
CHM Chemistry	MAT Mathematics
COM Communication	MGT Management
CSC Computer Science	MKT Marketing
DAN Dance	MUS Music
ECO Economics	PHI Philosophy
EDU Education	PHY Physics
ENG English, Rhetoric and Writing	PSY Psychology
EVS Environmental Sciences	REL Religion
FAM Family Studies	SOC Sociology
FIN Finance	SPA Spanish
FLM Film	STA Study Abroad
FRE French	THE Theatre
GEO Geology	WNS Women's Studies
GER German	

Requirements in the majors and within the general-education listing earlier in the catalog.

Other Abbreviations

CI	Consent of Instructor
CR	Co-requisite
JS	Junior Standing
PR	Prerequisite
SS	Senior Standing
I	Writing Intensive

Hours and Credits

The three numbers following the title of each course (ex. 3-2-4) indicate, in sequence, hours of lecture, hours of laboratory and hours of credit. In the example, the class will meet three hours for lecture and two hours for laboratory. Students will receive four semester hours of credit.

Description of Courses

ACC ACCOUNTING

(Campbell School of Business)

A word about prerequisites: Most business and economics studies are profitably undertaken by students with firm grounding in liberal arts, general education (including some mathematics) and prior business courses, so many Campbell School courses have specific course or level (e.g., JS or SS) prerequisites.

201. Principles of Financial Accounting - 3-0-3 Introduction to the purposes of financial statements; the recognition, measurement and disclosure of concepts and methods underlying financial statements; and understanding of the impact of transactions on these statements. PR: ECO 110.

202. Principles of Managerial Accounting - 3-0-3 Introduction to the uses of accounting information by managers in production, service and retail businesses, with focus upon classifying, measuring and analyzing costs for decision making, budgeting and performance evaluation. PR: ACC 201.

301. Intermediate Accounting I - 3-0-3 Study of external reporting, measurement and disclosure standards, with particular attention to assets. Includes use of authoritative pronouncements in solving complex problems. PR: ACC 201 and JS.

302. Intermediate Accounting II - 3-0-3 Study of external reporting, measurement and disclosure standards, with particular attention to liabilities and shareholders' equity. Includes use of authoritative pronouncements in solving complex problems. PR: ACC 301.

311. Cost Accounting - 3-0-3 Consideration of the cost accounting methods and systems used by organizations to assist management in planning and control. Also, emphasis on short- and long-run decision making and on internal performance evaluation. PR: ACC 202 and JS.

331. Tax Topics - 3-0-3 Study of the basic features of the federal income tax system focusing upon individuals and corporations. Consideration of the effect of the tax code on business decision making. PR: ACC 201 and JS.

401 I. Advanced Accounting - 3-0-3 Study of mergers and acquisitions, with attention to consolidation of financial statements. Also includes study of accounting for not-for-profit organizations. May also include reporting for international companies, partnerships or other topics. PR: ACC 301.

416. Accounting Information Systems - 3-0-3 Theory and practice of contemporary accounting information systems, including related audit techniques. Topics include information-processing fundamentals; analysis, design and implementation of accounting information systems. PR: ACC 302.

420. Auditing - 3-0-3 Verification of financial statements by CPAs. Includes legal liability, ethics and assessment of risks and materiality of transactions. PR: ACC 416.

430. Contemporary Accounting Issues - 3-0-3 Analysis of trends and standards in accounting through review of the major publications of the accounting and business profession. Emphasis on the structure of accounting theory underlying the concepts of assets and income determination (FASB Conceptual Framework). PR: ACC 301 or CI.

431. Advanced Tax Topics - 3-0-3 Study of the basic features of the federal income tax system focusing on property transactions, tax credits, and taxation of business entities. Consideration of the effect of the tax code on business making and society. PR: ACC 331 and JS.

460. Special Topics in Accounting - 3-0-3 Varied content provides an opportunity for faculty and students to accommodate their interests. May be repeated once for credit as topics vary; maximum of six hours may be counted toward a degree program. PR: CI.

496. Academic Internship - 3-0-3 Student will work in a professional setting under the supervision of a faculty member who provides guidance and works with the student and on-site work supervisor to integrate work experiences and the student's educational and professional goals. Development of a learning contract. PR: ACC 301; see general provisions for academic internships in this catalog; CI.

498. Directed Study (Accounting) - 3-0-3 Advanced study or individual research in accounting. PR: JS or SS and approval of school dean; CI.

ANS ANIMAL SCIENCE

(School of Mathematical and Natural Sciences)

105. Introduction to Agricultural Sciences - 3-2-4 This course is designed to provide an overview of the agricultural sciences related to the scientific principles and practices of food and fiber production. The laboratory sessions are designed to provide application of principles and examples of current agricultural technologies. May be used as a general-education laboratory science elective.

120. Introduction to Animal Science - 3-2-4 An overview of the basic principles and practices of animal agriculture as well as discussion of related current topics and future trends.

200. Livestock Feeding and Ration Formulation - 3-2-4 Principles of ration formulation for various classes of livestock; feedstuff composition and identification, feed processing and ration formulation with special emphasis on computer application as applied to balancing and least-cost analysis. PR: ANS 120.

300. Stable Management - 2-2-3 Principles and application of equine-facility management including nutrition, health, facility design and maintenance as well as financial planning and legal considerations. PR: ANS 120 or CI.

302. Veterinary Microbiology - 2-4-4 This course is designed as an introduction to microbiology and the manipulative skills required for the isolation and identification of veterinary pathogens and common non-pathogenic microbiota found in a variety of samples. PR: ANS 120, BIO 111; or CI.

322 I. Principles of Nutrition - 3-0-3 Physiology and chemistry of digestion, absorption and metabolism of nutrients in animals; nutrient functions, requirements, utilization and the effects of nutrient deficiencies and toxicity. PR: ANS 120, BIO 202, CHM109; or CI.

323. Forage Production - 3-2-4 Concepts and practical aspects of forage production, with emphasis on the southern United States. Forage management and forage species and review of grazing systems for different species of livestock. PR: ANS 200.

324. Genetics of Livestock Improvement - 3-2-4 Application of genetic principles to the development of desirable livestock; the scientific approach to selection and mating systems to maximize genetic change. PR: ANS 120 or CI.

326. Anatomy and Physiology - 3-2-4 General principles of anatomy and physiology of farm animals, emphasizing ruminant and equine digestive physiology. PR: ANS 120, BIO 202; or CI.

327. Reproductive Physiology - 3-2-4 Concepts, principles and techniques in the physiology of reproduction of

farm animals and management for improved reproductive efficiency. PR: ANS 120; BIO 202; or CI.

329. Equine Health - 3-2-4 Introduction to the principles and practices of equine health care including preventive care, diagnosis and treatment of disease and injury. PR: ANS 120, ANS 200; or CI.

330. Comparative Exercise Physiology - 3-0-3 Metabolic and physiologic aspects of exercise and conditioning with special emphasis on biochemical pathways. PR: ANS 326 or BIO 206; or CI.

331. Equine Evaluation - 3-2-4 Evaluation of equine conformation and the influences of genetics and environment. Skeletal and muscular systems anatomy and physiology will be emphasized with their contributions to soundness and performance. PR: ANS 120, BIO 202, ANS 326.

332. Companion Animal Science - 3-2-4 The course provides an overview of companion animals with primary emphasis on canine and feline anatomy and physiology, behavior, genetics, nutrition and health care. PR: ANS 120, ANS 200; or CI.

421 I. Animal Health and Diseases - 3-2-4 Introduction to the basic principles of epidemiology with special reference to the pathogenesis of diseases in the animal population; description of the role of the animal scientist, veterinarian and farm manager in the control of diseases. PR: ANS 120, ANS 326.

422 I. Beef Systems and Management - 3-2-4 Examination of beef-cattle enterprises including breeding, nutrition, reproduction and health management for maximization of production efficiency. PR: ANS 200, ANS 324, ANS 326, ANS 327; or CI.

423. Dairy Systems and Management - 3-2-4 Application of science and technology related to modern dairying, emphasizing herd management, computerization of records, milking, sanitation, genetics, nutrition, health, economics and regulatory agencies involved in dairying. PR: ANS 200, ANS 324, ANS 326, ANS 327; or CI.

424. Horse Systems and Management - 3-2-4 Principles and practices of breeding, nutrition, reproduction and management as related to the horse industry. PR: ANS 200, ANS 324, ANS 326, ANS 327; or CI.

425. Swine and Poultry Systems and Management - 3-0-3 A systems approach that covers all aspects of swine production with special emphasis on Southeastern pork production, including the economic, nutritional, genetic, physiological and managerial factors involved in each phase of the life cycle under the various systems of production. Also, principles and practices of breeding, nutrition, reproduction and management as related to broilers and laying hens. PR: ANS 200, ANS 324, ANS 326, ANS 327; or CI.

426. Sheep Systems and Management - 3-2-4 Principles and practices of sheep production with special emphasis on farm-flock operations. A systems approach that considers the economic, nutritional, genetic, physiological and managerial factors of production. PR: ANS 200, ANS 324, ANS 326, ANS 327; or CI.

429 I. Behavior of Domestic Animals - 3-2-4 Examination of domestic-animal behavior and the practical implications of their behavior. Emphasis is placed on how human care, genetic selection and the physical and social environments provided by man affect behavior and, thereby, aspects of animal well-being. PR: ANS 324, ANS 326, ANS 327; or CI.

433. Neural, Muscular and Renal Physiology - 3-0-3 An in-depth examination of neural, muscular and renal physiology. This advanced physiology course is intended primarily for those planning to pursue graduate education in the medical or research fields. PR: ANS 326 or CI.

434. Cardiovascular, Pulmonary and Hepatic Physiology - 3-0-3 An in-depth examination of cardiovascular, pulmonary and hepatic physiology. This advanced physiology course is intended primarily for those planning to pursue graduate education in the medical or research fields. PR: ANS 326 or CI.

441. Advanced Reproductive Technologies - 2-2-3 This course is designed to provide an in-depth review of

reproductive technologies utilized in domestic animals. Topics to be covered include: cryobiology, endocrinology, manipulation of reproductive cycles, artificial insemination, immunological assays, embryo transfer and applications of ultrasound technology as they relate to reproduction. PR: ANS 327 or CI.

491. Seminar - 1-0-1 Special topics and current literature pertaining to the animal sciences. PR: SS.

492. Special Topics - 1 to 4 hours Instruction in special topics of current interest in the animal industry.

496. Academic Internship - 3 to 9 hours Problem-oriented experiences on specific academic projects relating to the individual student's program of study, planned in consultation with the student's advisor. PR: See general provisions for academic internships in this catalog.

498. Directed Study - 1 to 9 hours Directed study of selected subjects approved by instructor. PR: JS or SS and approval of school dean.

ANT ANTHROPOLOGY

(Evans School of Humanities, Arts and Social Sciences)

200. Cultural Anthropology - 3-0-3 Cross-cultural study of human belief systems, social institutions and cultural traditions. Emphasis is placed on understanding non-Western societies from an anthropological point of view and using that knowledge to develop a new perspective on Western beliefs, institutions and practices.

210. Origins of Human Behavior 3-0-3 An introduction to the biological evolution of the human species and the archaeology of early peoples to better understand what it is to be human and why we behave the way we do. Topics include the relationship of humans to other primates; contemporary human variation; cultural achievements of early Homo sapiens. Emphasis on the adaptations, technologies, and institutions developed in the prehistoric past to meet the challenges of the natural and social environments and the application of this knowledge to contemporary global problems.

300 I. Social Theory - 3-0-3 (See SOC 300I.)

301. Peoples of Latin America and the Caribbean- 3-0-3 (See LCS 301). PR: ANT 200 or SOC 200 or CI.

305 I. Social Science Research Methods - 3-0-3 (See SOC 305I.)

320. Gender in Anthropological Perspective - 3-0-3 Explores the crucial dimension of gender in organizing societies. Analyzes common patterns and cross-cultural variation in gender roles, sexuality, ideologies, symbolic meanings, hierarchy, and economic development. Highlights the cultural construction of masculinity and femininity within specific social and historical contexts. PR: ANT 200, SOC 200 or WNS 210.

325. Anthropology of Popular Culture - 3-0-3 Explores the significance of popular culture in understanding the dynamics within a society, as well as the relationships between societies in the contemporary world. Uses case studies from both developed and less-developed countries. PR: ANT 200 or SOC 200.

330. Anthropology of the Body - 3-0-3 Exploration of the relationship between body, self, society and culture. Application of anthropological perspectives to body modification practices in the United States and around the world. PR: ANT 200 or SOC 200.

340. Globalization and Local Communities - 3-0-3 Employment of anthropological perspectives to examine critically the historical roots, current manifestations and future trajectories of globalization. Examination of globalization's economic, political, social and cultural dimensions and its impact on local communities. PR: ANT 200 or SOC 200.

350. African Cultures - 3-0-3 Explores the diversity and common patterns in African societies. Uses ethnographies, literature and personal narrative to show the influence of historical era, economic change and political context on local cultures. Emphasizes links between Africa and the globe. PR: ANT 200 or SOC 200.

360. Special Topics in Anthropology 3-0-3 Exploration of a current issue or substantive field in anthropology. PR: ANT 200 or SOC 200 or CI. Repeatable-no limit as long as topic changes.

365. Magic, Science, and Religion 3-0-3 An anthropological exploration of the idea that magic, science, and religion are found in some form in all human societies. Emphasis on the diversity of sacred belief and behavior recorded by ethnographers; evolutionary and other models of the origins and functions of sacred practices and institutions; and roots of science found in the cosmologies, myths, and ecological models of ancient and small-scale societies. PR: ANT 200 or SOC 200

380. Applying Anthropology - 3-0-3 Tracing of the history of applied anthropology and questioning how anthropologists have utilized their knowledge and research techniques outside the context of the academy. Grappling with the ethical issues faced by these anthropologists and asking how they have dealt with them. Critique of applied anthropology as it has been done in the past and consideration of the prospects for its future. PR: ANT 200 or SOC 200.

390. Urban Anthropology - 3-0-3 Examines city life through examples from various parts of the world. Aspects explored include economics, social groups, politics, geography and cultural dynamics. Emphasis on interactions among cities, rural areas and the wider world. PR: ANT 200 or SOC 200.

450. Seminar in Anthropology - 3-0-3 In-depth study of an issue, topic, or subfield in anthropology. Intensive reading, writing, and seminar-format discussion. PR: two 300- or 400- level SOC or ANT courses or CI. Repeatable- no limit as long as topic changes.

480 I. Senior Project - 3-0-3 Opportunity to propose, conduct and report an individual research project in an area of special interest. This will be the capstone course for the SOC/ANT major. PR: ANT 300 and ANT 305 or CI

496. Academic Internship - 3 to 6 hours Problem-oriented experiences in specific academic projects relating to the individual student's program of study, planned in consultation with the student's advisor. PR: ANT 200 and nine additional hours in ANT or SOC.

498. Directed Studies - 1 to 3 hours Supervised reading or opportunity for written research in the field of anthropology when the area of study is highly specialized or the material is not otherwise available in the departmental curriculum. PR: JS or SS majors and approval of the school dean.

ART ART

(Evans School of Humanities, Arts and Social Sciences)

102. Two-Dimensional Design - 2-2-3 Study of two-dimensional design through problems solved and executed using various traditional and digital-imaging media; study and application of color theory.

201. Survey of Art I - 3-0-3 Art and architecture from the prehistoric period to the Renaissance, including an introduction to the fundamental principles and elements of design. Examination of works with regard to iconography, style, technique and function within a chronological framework.

202. Survey of Art II - 3-0-3 Art and architecture from the Renaissance to the 20th century, including an introduction to the fundamental principles and elements of design. Examination of works with regard to iconography, style, technique and function within a chronological framework.

220. Drawing - 2-2-3 Introduction to the language of drawing with a focus on line, value, perspective, and composition. Problems are based on observation and utilize a range of tools and materials. Materials fee.

228. Topics in Art - 1 to 3 hours Special topics in art offered on demand for areas of study not covered by the regular art curriculum. May be repeated for credit with different topic.

284. Hand Building Clay - 2-2-3 Ceramic hand-building techniques pursued through a series of assigned problems using terra cotta and Raku clays. Earthenware glazing and surface decoration methods taught. Study includes works by clay artists, basic clay and glaze formulation, drying and firing clay. Students participate in preparing clay and glazes and firing kilns. Emphasis on creativity, imagination, and technical proficiency in creating clay works. Materials fee.

304. Art Education - 2-2-3 Disciplined-based art education course with emphasis on the integration of art production, art history, aesthetics, and art criticism. Includes instruction dealing with the methodology of art education and weekly exercises that focus on unit plans, lesson plans, classroom management, interdisciplinary teaching, national standards, preparation for the state art content exam, and student teaching portfolios. Art education majors will participate in field experience as part of the requirements for this course.

320. Renaissance Art - 3-0-3 The origins and development of Renaissance painting, sculpture and architecture in the western world, beginning with a study of Medieval art.

321. Figure Drawing - 2-2-3 Examination of the formal, expressive, narrative, and anatomical nature of the human body through the language of drawing. Projects utilize a range of sources including a skeleton and live models with traditional media. PR: ART 220 or CI.

327. Web Design - 3-0-3 Introduction to designing and building web sites that integrate visual, structural and content design in completed sites. Work with best practice XHTML, and CSS techniques using a cutting edge XHTML/CSS editor and other Web-design software to build effective sites. Creativity and imagination cultivated while observing graphic design principles and web standards. May be repeated for credit with the consent of the instructor.

329. Advanced Special Topics 1-3 Offered on demand for areas of study not covered by art curriculum. May be repeated for credit.

330 Pre-Columbian and Latin American Art - 3-0-3 The art and architecture of ancient Mexico (Mesoamerican) and ancient Peru (Andean), as well as the colonial and modern Latin-American periods.

340. Graphic Design- 2-2-3 Exploration of ways to effectively communicate visual ideas by combining word and image. Various strategies of creative problem solving are utilized with traditional and digital media. PR: ART 102

350. Light Media - 2-2-3 Photographic imaging through production of silver prints using a modified Zone System approach to exposure and development. Alternative processes also used. Emphasis on the creative development of imagery with artistic, aesthetic and technical strength. May be repeated for credit with the consent of the instructor. Materials fee.

351. Digital Imaging - 2-2-3 Initiation of the student into the digital-visual medium, with a particular focus on painting and image-processing techniques using the personal computer; methods for combining traditional and electronic image-making. Projects ranging from commercial application to artistically experimental. May be repeated for credit with consent of instructor.

379. Throwing Clay - 2-2-3 Introduction to throwing clay on the potter's wheel using stoneware clay. Study includes works by well known clay artists, clay and glaze formulation and application. Students participate in preparing clay and glazes and firing kilns. Emphasis on creativity, imagination and technical proficiency in creating clay works. Materials fee. May be repeated with consent of instructor.

382. Printmaking - 2-2-3 Survey of the major methods of creating multiples building from monotype to relief (linoleum cut/woodcut), intaglio (drypoint/hardground/aquatint), lithography, and serigraphy. Materials fee. PR: ART 220 or CI

384. Painting - 2-2-3 Introduction to the language of painting with an emphasis on creating visual unity through a range of color models and techniques. Problems assigned encompass different sources and surfaces with acrylic paint. Materials fee.

385. Intermediate Printmaking - 2-2-3 Opportunity to develop printmaking processes introduced in ART 382 (monotype, relief, intaglio, lithography, and serigraphy). May be repeated for credit. Materials fee. PR: ART 382

386. Works on Paper - 2-2-3 Continuation of ART 384 that primarily employs watercolor and gouache on paper. Opportunity to combine drawing with a range of painting media. May be repeated for credit. Materials fee. PR: ART 384

388. Painting Workshop - 2-2-3 Continuation of ART 384 that primarily uses opaque paint (oil, acrylic, casein) to create a series of work that is formulated by the student. May be repeated for credit. Materials fee. PR: ART 384 or CI

389. Advanced Clay - 2-2-3 Independent work on advanced problems in clay art with the guidance of the instructor to implement the student's course of study. Materials fee. May be repeated once for credit. PR: ART 284 and 379 or CI.

404 I. Early 20th Century Art 3-0-3 Developments in European and American art from 1890 to 1940, involving all major modern movements and manifestos from Art Nouveau to Surrealism. PR: ART 202 or CI

405 I. Art After 1945 - 3-0-3 Discussion of visual arts and art theories that developed internationally after that developed internationally after WWII, including all major stylistic periods from Abstract Expressionism to contemporary practices.

408 I. Nineteenth-Century Art - 3-0-3 European and American painting, sculpture and architecture in the 19th century. Organized around a theme or movement such as Impressionism, Van Gogh, or the Dark Side.

413. Women and Art - 3-0-3 Focused study of women artists and depictions of women throughout history with particular emphasis on historical context, artists' writings and current scholarship.

415. Advanced Studio Problems – 3-0-3 For the student of studio art, the opportunity to pursue a discipline of their choice working independently in their studios with focused instructor/peer critiques each week. Students must have reached the intermediate level in the chosen discipline and be approved by appropriate faculty in order to use art program facilities for their work. Course purpose is development of effective working methods, style, vision, and content preparatory for the senior-thesis exhibition or for the portfolio. Works made in ART 415 may not be included in the Senior Thesis Exhibition credit with the consent of the instructor. Materials fee based on studio assets used. PR: JS, SS or CI

420. Art Theory and Criticism - 3-0-3 This course deals with historic and contemporary issues of art history and criticism. Provides a variety of information (visual, critical, theoretical) and learning opportunities (discussing, writing, reviewing and presenting) that will facilitate a more refined understanding of art terminology, methodology, history, pedagogy, theory and criticism.

450. Senior Thesis - 0-10-3 Required of all B.A. students taking the studio art or art history concentration. Studio-art concentration students prepare a body of work for a one-person exhibition to be mounted at the end of the semester in Moon Gallery. Art-history concentration students prepare a scholarly written thesis. Art-education students may elect to prepare a professional quality portfolio in lieu of the exhibition with the consent of the thesis faculty mentor.

496. Academic Internship - 3 to 12 hours Problem-oriented experiences on specific academic projects relating

to the individual student's program of study and planned in consultation with the student's advisor. PR: See general provisions for academic internships in this catalog.

498. Directed Study - 1 to 3 hours Art projects planned between instructor and students requiring demonstration of advanced skills. Open to upper-level students who have demonstrated ability to work independently. PR: JS or SS and approval of school dean.

AST ASTRONOMY

(School of Mathematical and Natural Sciences)

106. The Solar System - 3-2-4 Survey of the solar system, including the sun, the major planets and their satellites, the asteroid belt, the Kuiper belt, and the Oort cloud. Recommended for general-education requirement in science. Credit not allowed toward concentration I physics major.

107. Stars, Galaxies and Cosmology - 3-2-4 Survey of the universe beyond the solar system. Stars, stellar evolution, novae and supernovae, neutron stars, black holes, normal and active galaxies, and simple cosmological models. Recommended for general-education requirement in science. Credit not allowed toward concentration I physics major.

120. The Copernican Revolution - 3-2-4 A detailed look at the science of the Copernican Revolution. This watershed in the history of science is used as a model of how science, ancient and modern, operates and what it can and cannot tell us. The hypotheses and theories of Nicholas Copernicus, Tycho Brahe, Johannes Kepler and Galileo Galilei will be featured centrally, and many seminal observations of these scientists will be reproduced in laboratory sessions. Approved for the general-education requirement in science.

121. The Discovery of Galaxies- 3-2-4 Galactic astronomy from the Seventeenth Century to the early Twentieth Century. Examines changing ideas about the place of our solar system within the Milky Way galaxy and the existence of other galaxies. Emphasizes the historical development of new theories and how those theories were evaluated. Intended to satisfy general-education requirement in science for non-science majors. Major elective for Concentration II physics major. Credit not allowed toward Concentration I physics major,

412. Astrophysics - 3-0-3 Quantitative treatment of basic astronomical principles. Topics include cosmological models, galaxies, stars, the interstellar medium and the solar system. Emphasis on observational techniques and data analysis. PR: PHY 307 I.

BCC BERRY COLLEGE COURSES

099. Library Skills -2 hours total, 0 credit

Completion required of all entering students during first term of enrollment. Introduction to library resources; training in use of computerized catalog and other computerized indexes. Accurate completion of assignment or repetition of course required. Grading Pass or Fail.

100. First-Year Seminar - 1-0-1

Orientation to the academic, intellectual, social and personal demands of higher education and an introduction to the history, mission and resources of Berry College. Through readings, lectures, discussions and group activities, students explore their strengths, aptitudes, values and goals and develop a plan for their Berry education. Students will reflect on individual goals within the context of higher education while developing time-management skills and learning a variety of study strategies.

150. Career Development - 2-0-2

The relationship between self-awareness and understanding of the occupational environment. Topics include decision-making styles, personal goals, self-concept, values, interests, skills, experience, occupational and educational options and career-search strategies.

BIO BIOLOGY

(School of Mathematical and Natural Sciences)

103. Biological Inquiry - 3-2-4 A practical application of the scientific method in the modern world. Laboratories include scientific observation, fieldwork, projects, dissection and experimentation.

105. Human Organism - 3-2-4 Human origins, development, anatomy and physiology, behavior and relationship to Earth through pollution and overpopulation. Labs involve examination of biological -principles and human characteristics and processes.

106. Biological Diversity - 3-2-4 Evolutionary relationships of major taxonomic groups-bacteria, protozoans, fungi, plants and animals. Conservation of endangered species and communities. Laboratory includes collection and study of organisms on the Berry College campus.

107. The Great Neglected Diseases - 3-2-4 Introduction to the world's parasitic and infectious diseases that constitute the dominant health concerns in most Third-World countries. This integrative biology course examines anatomical, physiological, ecological, behavioral and other aspects of the host-parasite relationship. Laboratory involves hands-on experience in solving diagnostic, pathologic and forensic problems.

108. Understanding Human Genetics - 3-2-4 Introduction to basic genetics and biotechnology; the biology of the gene including the genetic code and cloning, featuring throughout the impact and ethics posed by biotechnology. Laboratory introduction to techniques in gene manipulation.

111. Principles of Cell Biology - 3-2-4 Introductory chemistry, cell biology, enzymes, cellular respiration, photosynthesis, molecular biology, meiosis/mitosis, and Mendelian genetics. Not recommended for non-science majors.

202. Principles of Zoology - 3-2-4 Evolution, speciation, and animal diversity and physiology. PR: BIO 111 or EVS 104 or CI.

204. Genetics - 3-3-4 Basic genetic concepts including classical Mendelian inheritance, population genetics and molecular concept of gene action. Plant, animal and human genetics are emphasized. PR: BIO 111.

206. Human Anatomy and Physiology I - 3-2-4 Study of cell and tissue structure, function and biochemistry, with a detailed study of the histology, physiology and gross anatomy of the human integumentary, skeletal, muscular and nervous systems. PR: BIO 111

207. Human Anatomy and Physiology II - 3-2-4 Continuation of Human Anatomy and Physiology I with a detailed study of the histology, physiology and gross anatomy of the cardiovascular, endocrine, respiratory, lymphatic, digestive and reproductive systems. PR: BIO 111 and BIO 206 or CI.

215. Principles of Microbiology and Botany - 3-2-4 Virus, prokaryote, protist, fungus and plant diversity, and basic plant physiology. PR: BIO 111 or EVS 104 or CI.

300. Cell Biology - 3-3-4 Morphology and physiology of cells; membrane and organelle structure, cell biochemistry, cancer. PR: BIO 111.

301. Microbiology - 2-4-4 Biology and control of microorganisms important in health, agriculture and industry. Chemistry helpful. PR: BIO 111.

302. Comparative Vertebrate Anatomy 3-3-4 Studies of the development, structure, and function of vertebrate organ systems from an evolutionary perspective. Laboratory includes dissections and field studies. Major elective. PR: BIO 202.

- 303. Comparative Animal Physiology - 3-3-4** The physiological functions and capacities of cells, organs and organ systems in animals. PR: BIO 202.
- 305. General Ecology - 3-3-4** The relationships of animals, plants and their abiotic environment. Concepts of energy flow, food chains, population dynamics, predator/prey relations and competition. Review of major aquatic and terrestrial ecosystems. Field work emphasized in laboratory. PR: BIO 202 or 215.
- 307. Entomology - 3-3-4** General introduction to biology and ecology of insects, including environmental, medical, veterinary and agricultural aspects. Laboratory work emphasizes field studies. PR: BIO 202.
- 311 I. Field Botany - 2-4-4** Focuses on the physiology, ecology, systematics and evolution of flowering and non-flowering plants. Emphasis on field observation and study on the Berry campus and in other local areas. PR: BIO 215.
- 313 I. Forest Ecology - 2-4-4** Population, community and ecosystem analysis of temperate forests. Emphasis is on the ecology of forest plants, field-study techniques and data analysis. Laboratories involve an extended field research project focusing on longleaf pines on the Berry campus. PR: BIO 215 and 305.
- 330 I. Developmental Biology - 3-3-4** Principles and processes of embryonic development, including molecular, cellular and genetic mechanisms of differentiation and morphogenesis in animals and plants. PR: BIO 300.
- 331 I. Invertebrate Zoology - 3-3-4** Survey of the invertebrates, including anatomy, classification, adaptive physiology, behavior and ecology. Laboratory work including dissections and field studies. PR: BIO 202.
- 332 I. Vertebrate Zoology - 3-3-4** An overview of the morphology, physiology, systematics, behavior and evolution of vertebrate taxa. Laboratory emphasis on species identification of Georgia vertebrates and on aspects of animal behavior and ecology. PR: 202.
- 335. Parasitology - 3-3-4** Biology of parasites of medical and veterinary importance. PR: BIO 202 or 215.
- 339 I. Plant Physiology - 3-3-4** Physiological processes of plants, including water relations, carbon fixation, utilization and translocation, growth and development, mineral nutrition, and hormone action. Particular attention to plant/environment interactions. PR: BIO 215.
- 345 I. Evolutionary Biology - 3-3-4** Introduction to evolutionary processes and the history of evolutionary thought. Emphasis on natural and sexual selection, evolutionary genetics, molecular evolution, adaptation, speciation, evolutionary medicine, and the history of life. Laboratories include field work on campus, trips to local museums, and use of phylogenetic and image-analysis software. PR: BIO 202 and 204.
- 352 I. Immunology - 3-3-4** Introduction to the essential physiological components, mechanisms and functions of the mammalian immune system, including innate versus acquired immunity, antigen/antibody interactions, B- and T-cell activation, inflammation, tolerance, cytokine signaling, immunity to microbes, immune-based pathology and vaccine strategies. PR: BIO 202.
- 383. Tropical Biodiversity and Conservation - 2-4-4** An introduction to tropical biodiversity and conservation, including an intensive three-week research-based experience at contrasting field sites in Costa Rica. Lectures and labs focus on the ecology and conservation of tropical ecosystems, while permitting exposure to the politics, culture and language of a developing country. Provides an introduction to field research and to the physical and ecological concepts pivotal to the sustainable management of ecosystems. PR: BIO 202 or 215, or CI. Need authorization form.
- 405. Conservation Biology - 3-3-4** Practical and theoretical problems facing conservationists, considering ecological principles, fragmentation of habitats, captive breeding and exploitation of resources. Labs will focus on the use of computer modeling in conservation decisions and field trips. PR: BIO 305.

415 I. Behavioral Ecology - 3-3-4 Survival value of animal behavior from an evolutionary perspective; optimization, aggressions, mate choice, parental care, communication and altruism. Labs will focus on data gathering techniques, classic animal behavior, experiments and field trips . PR: BIO 305.

436 I. Advanced Cellular and Molecular Biology - 3-0-3 Analysis of the molecular biology of eukaryotic cells. Detailed examination of basic cellular processes, along with the techniques needed to conduct such research. Textbook and lecture supplemented with current research literature. PR: BIO 300.

451. Molecular Biology - 2-4-4 An advanced course in the methods of molecular biology, with emphasis on modern techniques and their application in the laboratory. Examples of topics covered: gene cloning, protein expression systems, sequence analysis and hybridization. PR: either BIO 204 or 300 or CI.

455. Advanced Ecology - 3-0-3 Topics include tropical biology, plant/animal interactions, primatology, canid biology and global change. PR: BIO 305.

465 I. Aquatic Biology - 3-2-4 A field-oriented course that examines current methods in limnology, aquatic sampling techniques, examination of local flora and fauna, aquaculture, stream and lake management and aquatic conservation. Laboratory includes field sampling in local waters and field trips. PR: BIO 305.

480. Advanced Topics in Biology - 1 to 5 hours Instruction in advanced topics of current interest in biology. May be repeated for credit during separate terms provided the topic is different. Elective for biology major or minor. Course may not be taken more than one time per term.

482. Coral Reef Ecology - 2-4-4 Intensive, field-oriented experience designed to familiarize the student with the coral reef biome, including corals, invertebrates, fishes, algae and macrophytes. PR: BIO 305 and CI.

490. Seminar in Biology - 1-0-1 Special topics and current literature in the biological sciences, including proper use of library resources for literature review and computer search.

496. Academic Internship - 3 to 12 hours Problem-oriented experiences on specific academic projects relating to the individual student's program of study, planned in consultation with the student's advisor. Departmental approval required; no more than four credit hours may be applied to the biology major as a biology elective. PR: See general provisions for academic internships in this catalog.

498. Directed Study - 1 to 5 hours Advanced study or individual research of specific problems. Departmental approval required; no more than four credit hours may be applied to the biology major as a biology elective. PR: JS or SS and approval of school dean.

499. Senior Thesis - 2 hours An optional senior research project with a mentor of the student's choice. Open to seniors with a GPA of 3.3 or better. Two semesters required.

BUS BUSINESS ADMINISTRATION

(Campbell School of Business)

A word about prerequisites: Most business and economics studies are profitably undertaken by students with firm grounding in liberal arts, general education (including some mathematics) and prior business courses, so many Campbell School courses have specific course or level prerequisites, such as Junior Standing (JS) or Senior Standing (SS).

107. Business-Information Management - 3-0-3 Application of personal computers to business problems, with emphasis on the use of computer packages to facilitate problem solving and communications. Introduction of computer software including word processing, database management, spreadsheets and statistical analyses. Emphasis on making correct decisions using statistical and economic analyses with reference to numerous topics in descriptive statistics.

- 210. Legal Environment of Business - 3-0-3** Emphasis on the legal and ethical issues facing businesses today, with focus on American legal institutions, contracts, property and employment law and consideration of the ethical implications of business decisions. PR: 45 hours of coursework completed.
- 211. Business Statistics - 3-0-3** Analysis of variance, applications of the chi-square statistic, simple linear regression, multiple linear regression, time-series analysis, index numbers, forecasting methods, decision making under uncertainty, nonparametric statistics and other topics of current interest. PR: MAT 111.
- 212. Gender and Business - 3-0-3** Analysis of the roles of women and men in the work force, particularly with regard to employment relationships and communication, career paths and equal opportunity. Examination of historical influences that have shaped traditions and affected gender roles in the workplace.
- 308. Ethical Issues in Business - 3-0-3** Examination of situations that raise ethical issues in a business setting. Use of case analysis and discussion as the primary tools through which students familiarize themselves with ethical concerns such as employment discrimination, sexual harassment, wage and promotion issues, product safety, employee disabilities, plant relocation and income distribution. PR: JS.
- 316. Information Systems - 3-0-3** Consideration of hardware and software architectures, how they are embedded in organizations and how they interact with the problem-solving processes of business. PR: JS.
- 323I. Business Research and Analysis- 3-0-3** (See MKT 323I).
- 358. Current Topics in Business - 3-0-3** Highlights current theoretical concepts in business. Emphasis on the application of concepts to practical work settings and the students' individual experiences. PR: JS or CI.
- 410. International Business - 3-0-3** Mechanics and problems encountered when doing business abroad. Links differences in legal, political, economic, social and cultural influences to functional areas concerning international business management, marketing, accounting, finance and law. PR: JS.
- 411. Advanced Business Law - 3-0-3** Further preparation of students for legal issues faced in the business world and provision of the necessary legal tools for students preparing for the CPA Exam. Topics include the Uniform Commercial Code, negotiable instruments, partnerships and corporations, agency and account liability and malpractice. PR: BUS 210.
- 416. Business and Society- 3-0-3** Business environment is being shaped by emerging trends of globalization, workforce diversity, and social and environmental sustain ability. This course explores these trends in the context of stakeholder engagement as an essential component of corporate leadership and business administration. PR: JS or CI.
- 460. Seminar in Selected Business Topics - 3-0-3** Intensive examination of the literature and analytical techniques in a specific area of business, such as finance, marketing or management. PR: CI.
- 499 I. Global Business Strategy - 3-0-3** An integrative approach to problem identification and solution in a global business setting. Previous course work applied to extensive case analyses which include preparation of financial and management reports. PR: SS and MGT 301, MKT 301, and FIN 301.

CHM CHEMISTRY

(School of Mathematical and Natural Sciences)

- 102. Introduction to Chemistry - 3-2-4** The molecular science and its relationships to everyday life in the modern scientific and technological world. Credit not allowed toward a major or minor in any of the science areas.
- 108. General Chemistry I - 3-3-4** Principles and theories of chemistry; atomic and molecular structure, the nature of gases, liquids and solid states; chemical reactions; and stoichiometry.

109. General Chemistry II - 3-3-4 Continuation of general chemistry; topics include thermodynamics, kinetics, equilibrium, acid-base theory, electrochemistry and coordination chemistry. PR: CHM 108.

221. Organic Chemistry I - 3-3-4 Fundamental organic chemistry with emphasis on molecular structure and reaction mechanisms; chemistry of alkanes, alkenes, alkynes and halogenated hydrocarbons. PR: CHM 108.

222. Organic Chemistry II - 3-3-4 Continuation of organic chemistry; spectroscopic methods, aromatic chemistry, alcohols, chemistry of carbonyl-containing functions, amines and phenols with an introduction to glycerides, carbohydrates and peptides. PR: CHM 221.

250. Environmental Chemistry - 3-3-4 Introduction to the chemistry and the influences of human activity on the environment including sources of pollution, reactions in the environment and effects and fates of chemicals in water, air and soil. Credit not allowed toward a major or minor in chemistry. Suitable for general education requirement in science. PR: CHM 108 or CI.

315 I. Analytical Chemistry - 3-3-4 Principles of analytical chemistry including sampling, treatment of data, wet methods of analysis and instrumental techniques. Applications of equilibrium and electrochemistry to chemical analysis. Laboratory experiments using gravimetric analysis, volumetric analysis, absorption spectrophotometry, conductance, chromatography and electrochemistry. PR: CHM 109.

331 I. Physical Chemistry: Foundations - 3-3-4 Gas laws; the three laws of thermodynamics including applications to chemical equilibrium and equilibrium electrochemistry; the quantum mechanical atom; and chemical kinetics. PR: CHM109, a year of physics and MAT201; MAT 203 helpful.

332. Physical Chemistry: Applications - 3-3-4 Applications of the laws of thermodynamics to substances, solutions, and heterogeneous systems; quantum mechanics of molecules; chemical bonding; symmetry; molecular spectroscopy; and statistical thermodynamics. PR: CHM 331.

341. Biochemistry I - 3-3-4 Introduction to the chemistry of life, providing a general overview of biomolecular structure and function with emphasis on proteins/enzymes, lipids and membranes, and an introduction to metabolism. PR: CHM 109 and 222.

342. Biochemistry II - 3-3-4 Continuation of biochemistry with a focus on metabolism and the transfer of information from DNA to RNA to protein. PR: CHM 341.

375 I. Medicinal Chemistry - 3-0-3 Investigation of natural and synthetic medicines with attention to their fate in a living organism; topics including absorption, distribution and elimination of drugs, dose-response and time-response relationship of drugs and the relationship between chemical structure and biological activity. Examination of the biochemistry of several diseases to learn different ways that chemicals can be used to interfere with the course of a disease. PR: CHM 222.

405 I. Inorganic Chemistry - 3-3-4 Theoretical and descriptive inorganic/bioinorganic chemistry. Examines molecular structure and other properties of crystals, coordination compounds, and organometallic compounds. Topics include the roles of metal complexes as acids and bases, in oxidation-reduction reactions, and in biochemical systems. Laboratory in which main group and transition metal compounds are synthesized and studied. PR: CHM 331.

411. Instrumental Analysis - 3-3-4 Theory and application of modern instrumental methods of qualitative and quantitative analytical chemistry. PR: CHM 222, 315 and 332.

421. Advanced Organic Chemistry and Spectroscopy - 3-3-4 Advanced concepts in organic chemistry. Topics may include reaction mechanisms, reaction intermediates and synthetic methods. The laboratory component stresses structure analysis & elucidation using modern spectroscopy. PR: CHM222

443 I. Advanced Biochemistry - 3-0-3 In-depth study of selected topics in biochemistry that build upon

information presented in Biochemistry II. PR: CHM 342.

451. Senior Thesis - 0-6-2 Design, execution and reporting of a laboratory investigation in chemistry. PR: CHM 332, SS and CI.

480. Advanced Topics in Chemistry 1-4 credits Topics of mutual interest to students and professors, which cannot be scheduled regularly. Normally for juniors and seniors. May be taken multiple times if different course titles are offered.

490. Seminar - 1-0-1 Current literature and/or research reports by students, faculty and visiting speakers. PR: SS and chemistry major.

496. Academic Internship - 3 to 10 hours Problem-oriented experiences on specific academic projects relating to the individual student's program of study, planned in consultation with the student's advisor. PR: See general provisions for academic internships in this catalog.

498. Directed Study - 0-3-1 to 0-9-3 Directed investigation of a topic outside the scope of existing courses; laboratory and conferences as required; results presented in a formal report. May be repeated any number of times but only four hours may be applied toward a chemistry major or minor. PR: JS or SS and approval of school dean.

COM COMMUNICATION

(Evans School of Humanities, Arts and Social Sciences)

200. Participation- 1-2-1 Communication practicum allowing students to gain experience in news, entertainment programming, or speech activities, up to a maximum of three hours within the major. .

200A. Participation-0-2-0 Communication practicum allowing students to gain experience in news, entertainment programming, or speech activities, while receiving no academic credit.

201. Foundations of Mass Communication - 3-0-3 Survey of the history and functions of contemporary media and their roles in a democratic society.

203. Rhetoric and Public Address- 3-0-3 Critical understanding and application of historical and theoretical foundations of contemporary public address, with practice in public speaking. Speech preparation emphasizes research, audience analysis, strategic development of ideas, organization and delivery.

206. Voice and Diction Improvement - 3-0-3 Foundation course in the area of speech effectiveness; the speech mechanism with emphasis on vocal flexibility and articulation. Speech laboratory work included.

253. Photography - 3-0-3 Introduction to photography. Emphasis on films, lighting, exposures, composition, basic digital-image handling, and camera types and uses. Laboratory course. Materials fee.

300. Visual Rhetoric - 3-0-3 Study of visual theory, visual literacy and how visual images are used to persuade. Students study and interpret audience specific visual culture and communication, and the rhetoric of visual materials.

301. Reporting and Writing - 2-2-3 Basic reporting and writing for multiple media platforms. Includes an introduction to journalism ethics. Laboratory included.

302. Visual Media Criticism - 3-0-3 Application of critical theory through the development of skills for evaluating television, film, photographic and digital media texts, with emphasis on visual media's social, cultural and representational roles in society. PR: COM 300.

303. Editing - 3-0-3 Selection, editing and preparation of written and visual materials for online publications,

newspapers, magazines and related media. Also studied are the ethics of journalism. Laboratory included. PR: COM 301.

305. Multimedia Production - 2-2-3 Development and demonstration of analytical and critical thinking skills related to the interaction of digital media in visual communication designed for specific audiences. Laboratory Included. Materials Fee. PR: COM 300, COM 301 and COM 303.

306. Public-Affairs Reporting - 3-0-3 An advanced course in analyzing, interpreting and reporting governmental and other hard-news beats with practical assignments for print media. PR: COM 301.

307. Commercial Photography and Production - 3-0-3 Professional digital photography with an emphasis on creating solutions for portrait, industrial, advertising, and commercial illustration using advanced digital image techniques. Survey of business practices in professional photography, including ethical, legal, and copyright issues. Students must have their own 35mm manually adjustable SLR or digital SLR camera. Laboratory course. Materials Fee. PR: COM 300 and COM 301.

312. Contemporary Persuasion - 3-0-3 Examination and analysis of contemporary persuasion in various rhetorical contexts. Experience in creation, development and presentation of persuasive messages. PR: COM 203.

314. Oral Interpretation - 3-0-3 Theory and practice of oral interpretation of literature. Reading recital by class members.

320. Programming and Distribution - 3-0-3 Overview of the television, film, photography and digital industries, focusing on content development, programming strategies, audience analysis, management structure and distribution of content.

322. Feature Writing - 3-0-3 Study of soft-news reporting and writing with practical assignments for newspapers, magazines and other periodicals. PR: COM 301 or CI.

326. Scriptwriting and Copywriting - 3-0-3 Basic principles of dramatic scriptwriting for film, television and digital media and writing for photographic and visual copy.

329. Digital Storytelling- 3-0-3 Introduction to new media and strategies for effective communication through them. Students will analyze the technical and rhetorical possibilities of online environments, including interactivity, hyper-linking, spatial orientation and non-linear storytelling. PR: COM 301.

331. Economics of News- 3-0-3 This course examines the forces that have established news media systems and contemporary business practice. Emphasis on market structure, conduct, performance, competition, responses to new technologies in news media markets and distributions models.

353. Photojournalism - 2-2-3 Use of photography to report and tell stories in the media. Topics include covering news with a camera, writing cutlines, doing photo essays, editing photography, manipulating digital images, and applying law and ethical codes. Students must have their own 35mm manually adjustable SLR or digital SLR camera. Laboratory course. Materials Fee. PR: COM 300 and 301.

375. Principles of Public Relations - 3-0-3 Development and current status of public relations in business, government and other organizations, with emphasis on principles and techniques and their effectiveness. PR: COM 301 or MKT 301 or CI. COM 375 may be used as an elective in the Marketing major.

380. Public Relations Writing - 3-0-3 Strategies and techniques of public-relations writing, with emphasis given to preparation and dissemination of a variety of formats and media. PR: COM 301.

385. Public Relations Cases and Campaigns - 3-0-3 Research and preparation of an integrated public-relations campaign, along with a study of the operation and objectives of effective public relations using a case-study approach. PR: COM 375.

390. Public Relations Administration - 3-0-3 Operation and objectives of public-relations programs; emphasis on relating the management functions of decision making, policy formation and evaluation to the communication process. PR: COM 375.

405. Applied Graphic Design- 2-2-3 Study and application of the principles of graphic design in the production of increasingly complex communication projects. Emphasis on conceptual problem-solving for visual communication environments and media production. PR: COM 305 or CI.

415 I. Theories of Communication - 3-0-3 Nature of the communication process with emphasis on mass media; coverage of a broad range of theories that attempt to explain contemporary communication phenomena.

416 I. Media Law - 3-0-3 Constitutional and legislative foundations of freedom of speech and press, with special emphasis on the law of libel, privacy, censorship, access and broadcast regulation. CR or PR: COM 201 or CI.

417. Methods of Audience Analysis - 3-0-3 Techniques for conducting and interpreting audience analysis, with focus on demographic and psychographic methods used by communicators in a wide range of disciplines including broadcasting, journalism, advertising and public relations.

418. Gender and Media - 3-0-3 Portrayals of males and females in U.S. media, including television, print, advertising and film, with discussion of the impact of such representations on audiences, the social inequities historically found in media content, professions and institutions and the contributions of alternative and feminist media to the field of mass communication.

425. Narrative Video Production - 2-2-3 A comprehensive introduction to the aesthetics, techniques and process of digital cinematography, nonlinear editing and visual compositioning applied to narrative production. Laboratory course. Materials fee. PR: COM 300.

428. Topics in Communication - 1 to 3 hours Concentrated advanced study in a special topic in communication. May be repeated for a maximum of three hours of credit.

429. Seminar in Communication - 3-0-3 Special topics in communication. PR: CI.

450. Senior Seminar in Ethics- 3-0-3 Synthesis of communication research and theory with a special focus on media ethics using the tools of ethical reasoning and critical analysis. Issues of ethics and social responsibility confronting contemporary media will be addressed through readings, research and case studies. Students must successfully complete designated reading and writing assignments, major field examinations, a major research or creative project, and a portfolio for departmental review. PR: SS

496. Academic Internship - 3 to 12 hours Problem-oriented experiences on specific academic projects relating to the individual student's program of study, planned in consultation with the student's advisor. Only three hours may be applied toward the major. PR: See general provisions for academic internships in this catalog.

498. Directed Study -1 to 3 hours Research planned according to the needs of the individual student. PR: JS or SS and approval of school dean.

CSC COMPUTER SCIENCE

(School of Mathematical and Natural Sciences)

120. Fundamentals of Computer Science I - 3-2-4 An introduction to key concepts in computing and programming. Emphasis is on systematic methods for understanding problems and devising computations that solve problems correctly, The design and implementation of programs, design recipes for computational problem solving, data structures, abstraction, algorithm design, the software development process, and social contexts. No

prior programming experience is required.

121. Fundamentals of Computer Science II - 3-2-4 An introduction to the object-oriented model of programming, building on the design methodology introduced in CSC 120. Students will design, implement, test, and debug object-oriented programs composed of multiple classes implementing a variety of data structures. Topics include classes, objects, inheritance, exceptions, interfaces, design by contract, basic design patterns, and reuse.. PR: CSC 120.

219. Discrete Structures - 3-0-3 (See MAT 219.) Elementary logic, sets, relations, functions, sequences, linear systems, introduction to graphs and trees, counting principles and recurrence.

220. Data Structure and Systems Programming - 3-2-4 A course in the design, implementation, and use of fundamental data structures in a programming model that exposes details of how the hardware stores and executes software. This course covers manual memory management, pointers, the machine stack, and input/output mechanisms. The course will involve large-scale programming exercises and is designed to help students confront issues of safe programming with system-level constructs. PR: CSC 121 and CSC/MAT 219 (CSC/MAT will be accepted as a co-requisite).

300. Professional and Social Contexts - 1-0-1 A seminar in the professional and social contexts of computing for computer science majors. PR: CSC 121 and JS.

319. Combinatorial Mathematics - 3-0-3 (See MAT 319.) Generating functions, combinatorial designs, graph theory, tree traversals, networks, computation theory, coding theory, Polya counting. PR: CSC/MAT 219 and MAT 305WI.

320. Algorithms and Models of Computation - 3-0-3 Introduces the basic principles and techniques for the design, analysis, and implementation of the efficient algorithms and data representations. Discusses asymptotic analysis and methods for establishing the correctness of algorithms. A variety of algorithmic design techniques are studied. Also provides an introduction to automata theory, computability, and complexity, including the notion of the hardness of the problem. PR: CSC/MAT 219 and CSC 220.

333. Imbedded and Real-Time Microprocessor Interfacing and Control - 2-2-3 A study of systems that use an imbedded microprocessor with input/output capabilities to sense real-time environmental conditions to control system action. Functional robotic implementations will be used as a focus for demonstrations of principles and experimentation. Major topics include assembly of mechanisms, serial and parallel communication, assembly and high-level programming, interfacing sensors, interfacing and controlling powers, other real-time systems, and robotic contests. PR: CSC 121.

340 I. Operating Systems - 3-0-3 Operating system design and implementation. Emphasis on strategies to manage processor time and resources and simulation of system performance variables. Extensive reporting on experimentation required. PR: CSC 121.

350. Computer Organization and Architecture - 3-2-4 Organization and architecture of computer systems. Topics include assembly level organization, CPU organization, memory systems, interfacing and communication, performance enhancements, and multiprocessor and alternative architectures. PR: CSC 220.

362. Database Systems and Implementation - 3-0-3 (See BUS 362.) An introduction to the theory and design of database systems and the wide spectrum of activities involved in database development. Emphasis on physical and logical representations, data modeling, and implementation of databases. Focus on relational databases.. PR: CSC 121 and JS.

404 I. Organization of Programming Languages - 3-0-3 Standard methods for defining, describing, implementing and evaluating the grammar, syntax and semantics of computer languages, including interpretative, imperative, functional, logical and specialized proprietary types. The problem-solving paradigms and environments usually associated with different traditional languages, and the implementations of data types,

data structures, selection and control structures, data flow and subroutine calls. Writing-intensive assignments with peer review will be required. PR: CSC 220 or CI.

420. Advanced Topics in Computer Science - 3-0-3 An advanced computer science topic to be chosen by the instructor. May be repeated for credit with different topics. PR: CI.

450. Net-centric Computing - 2-2-3 Introduces the structure, implementation and theoretical underpinnings of computer networking and the applications that have been enabled by that technology. PR: CSC 220.

490I. Senior Project - 3-0-3 A capstone experience in computer science focused on the design and implementation of computer systems. PR: CSC 320 and SS.

496. Academic Internship - 3 to 9 hours Problem-oriented experiences on specific academic projects relating to the individual student's program of study, planned in consultation with the student's advisor. PR: See general provisions for academic internships in this catalog.

498. Directed Study - 1 to 3 hours Supervised independent study in which students research, program and solve, via the computer, problems suggested and supervised by professors teaching courses in the students' academic-major departments. PR: JS or SS and approval of school dean.

DAN DANCE

123. Ballroom I- 0-2-1 The skills of leading and following will be taught in this class as participants learn the fox trot, swing, cha-cha, and waltz. Satisfies KIN activity general education requirement.

143. Ballroom II- 0-2-1 The skills of leading and following will be taught in this class as participants learn the Viennese waltz, tango, rumba, and samba. Satisfies KIN activity general education requirement.

152. Modern Dance I- 0-2-1 An introduction to modern dance for the beginning student or those at the elementary level. The course includes modern dance technique, style, vocabulary, and background information. Satisfies KIN activity general education requirement.

153. Modern Dance II- 0-2-1 Development of modern dance technique at an intermediate level. Satisfies KIN activity general education requirement. PR: DAN 152.

156. Ballet I- 0-2-1 An introduction to ballet for the beginning student or those at the elementary level. The course includes ballet technique, style, vocabulary, and background information. Satisfies KIN activity general education requirement.

157. Ballet II- 0-2-1 Development of classical technique at an intermediate level. Satisfies KIN activity general education requirement. PR: DAN 156.

158. Tap I- 0-2-1 Introduction to tap dance-its vocabulary, fundamental steps, style, and historical tradition. Satisfies KIN activity general education requirement.

159. Tap II- 0-2-1 Study of tap dance at an intermediate level, including vocabulary, steps, styles, and historical traditions. Satisfies KIN activity general education requirement. PR: DAN 158.

167. Jazz I- 0-2-1 Study of the basic forms and principles of jazz dance techniques and styles and their application to the individual student. Satisfies KIN activity general education requirement.

168. Jazz II- 0-2-1 The intermediate study of the principle styles and techniques of contemporary jazz. Satisfies KIN activity general education requirement. PR: DAN 167.

202. Dance Performance- 0-2-1 Students enrolling in this course will participate in scheduled dance rehearsals in which they are expected to contribute their creative input, and work on perfecting the technique and performance quality of the finished dance. Attendance in rehearsals, company, and production meetings,

costume fittings, technical and dress rehearsals, as well as the final performances, constitute the course expectations. Satisfies KIN activity general education requirement.

210. Improvisation: Dance Composition I - 3-0-3 Introduction to the fundamentals of dance improvisation, focusing on increasing the student's creative exploration of dance elements through individual, partner, and group movement studies. This course is designed to engage the moving imagination of the participants, empowering students to create on an embodied level, enabling them to generate dance compositions that are unique to their experience. Dance minor requirement.

220. Music for Dancers-3-0-3 The purpose of this course is to introduce students to the elements of music most influential in dance (rhythm, form, texture, style, melody, and expressions) and music literature appropriate for dance. This class will be based on exploration and application as well as lecture.

307. Choreography: Dance Composition II-3-0-3 This course is designed to present the theory and practice of making dances. It will focus on learning the basic use of the stage space in relation to setting a dance on others, exploring formations, use of photographic imagery, the execution of exits and entrances, and the inclusion of accents and unpredictability in the final dance. The student will be responsible for developing an audition study, auditioning dances, casting his/her dance, conducting rehearsals, and working with designers on the final performance. Dance minor requirement.

410. History of Dance-3-0-3 This course will examine the theoretical writings on dance history, aesthetics and culture, covering the depth and range of contemporary scholarship with considerations for dance as process, as body, as art, and as culture, while exploring ritual, choreographic, performance, critical and education processes in dance. A global perspective of dance and movement practices from various parts of the world will be considered, while focusing on the history of dance in the western tradition during the twentieth and twenty-first centuries. Dance minor requirement.

420. Dance Pedagogy-3-0-3 The purpose of this course is to introduce, explore, and practice basic principles of learning theories and teaching models of dance technique for the various genres of dance. This class will delineate specific needs, skills, and materials that will be helpful in planning and executing a dance class, course, and a projected long term, developmental curriculum. A practicum teaching experience will be incorporated into the course.

ECO ECONOMICS

(Campbell School of Business)

A word about prerequisites: Most business and economics studies are profitably undertaken by students with firm grounding in liberal arts, general education (including some mathematics) and prior business courses, so many Campbell School courses have specific course or level (e.g., JS or SS) prerequisites.

110. Principles of Economics I - 3-0-3 Analysis of how markets determine prices and the role of the price system in society. Introduction of the factors that determine macroeconomic activity and growth. Discussion of the American financial system and international trade. Consistent with the placement in the College's general education curriculum, this course emphasizes economic literacy for understanding historical and current events.

210. Principles of Economics II - 3-0-3 Analyzes the behavior of households and business firms and of markets' role in directing and integrating that behavior. Takes into account market structure and government policies relative to markets. Analyzes the allocation of scarce resources among competing uses and across time. Discussion of entrepreneurs' role in society. Analyzes international trade and trade policy options. PR: Grade of C- or better in ECO 110.

300. Economics Colloquium - 1-0-1 Examination of a specific topic or issue. Examples include prominent public policy debates or the work of a prominent economist such as Adam Smith. May be repeated twice with permission of the economics department chair. PR: ECO 110 with a grade of B- or better or CI.

315 I. Economic History of the United States - 3-0-3 Economic development of the United States from the colonial era. Addresses banking, transportation, government policies and immigration. Special emphasis on the economic history of the South. PR: ECO 110 and 210.

330 I. Public Economics - 3-0-3 Analysis of effects of government spending and taxing policies on the market system at both the microeconomic and macroeconomic levels. Focus on total expenditures and on selected expenditures programs. Analysis of the impacts of taxation and introduction of different types of tax instruments; consideration of issues related to government debt. PR: ECO 210, MAT 111 or 311, and JS.

331. Financial Markets, Institutions and Money - 3-0-3 (See also FIN 331.) Examination of the working of financial markets and institutions and their role in the macroeconomic system. Application of corporate financial and investment skills to the management of a financial institution, such as a commercial bank or savings and loan association. PR: ACC 201 and ECO 210.

350. Economic Development 3-0-3 An introduction to the economic characteristics and problems facing low income nations and to the theories applicable to economic growth of these nations. Special emphasis on the efficacy of public policies in promoting economic development. PR: ECO 210

360. Economic Analysis of Law - 3-0-3 Analyzes substantive and procedural legal rules using neoclassical economic theory. Emphasis is on the Chicago school of Posner, Coase, et al., stressing efficiency rather than equity. Topics include property rights, contracts, torts, corporations and crime and punishment. PR: ECO 210, MAT 111 or 311, and JS.

370. Environmental Economics - 3-0-3 Application of the principles of economics to the study of how environmental resources are developed and managed. Focus on how and why people make decisions that have consequences for the natural environment and how economic institutions and policies influence these decisions. PR: ECO 110 and either ECO 210 or EVS 104.

380. Health Economics-3-0-3

Application of economic tools to the analysis of problems and public policy in health care. Examination of the production, costs, and technology associated with health and health care. Analysis of consumer choice and the demand for health insurance, asymmetric information and physician supply, and the organization of the health care markets. PR ECO 210.

401. Microeconomics -3-0-3

Analysis of decision making within households and firms. Derivation and analysis of the behavior of markets, both for goods and services and for resources. Focus on conditions for economic efficiency and relevant public policy issues. Use of quantitative techniques to improve analytical skills. PR: ECO 210; MAT 145 or 201; 3 hours of ECO or FIN at or above the 301 level; JS.

402. Macroeconomics -3-0-3

Analysis of the major models of macroeconomic performance in determining aggregate income, employment, and the price level. Consideration of the role and limitation of fiscal and monetary policy. Introduction of international trade and balance of payments. Discussion of grown models. PR: ECO 210; MAT 145 or 201; 3 hours of ECO or FIN at or above the 301 level; JS.

420. Econometrics - 3-0-3 Analysis of methods of developing quantitative estimates of economic relationships and emphasis on how such estimates aid decision making . Emphasis on potential problems in estimation and possible methods of dealing with such problems. PR: ECO 210; MAT 111 or 311; 3 hours of ECO at or above the 301 level; JS.

440. International Economics and Finance - 3-0-3 (See FIN 440.) Analysis of international trade and finance. Examination of trade theories, balance of payments, and exchange rate. Movements and international capital mobility. Discussion of effects of exchange rate movements on multinational enterprises. Demonstration of the effects of tariffs and quotas. PR: ECO 210 and JS.

490. Topics in Economics - 3-0-3 Intensive examination of the issues related to a specific topic in economics such as the environment, regulation, economic development or urbanization. PR: ECO 210, JS and CI.

496. Academic Internship - 3 hours Student will work in a professional setting under a faculty member who provides guidance and works with the student and on-site work supervisor to integrate work experiences and the student's educational and professional goals. Development of a learning contract. PR: ECO 210; see general requirements for academic internships in this catalog; CI.

498. Directed Study (Economics) - 3-0-3 Advanced individual research in economics. PR: JS and approval of school dean.

EDU EDUCATION

(Charter School of Education and Human Sciences)

102. Orientation to Teacher Education - 1-0-1 Orientation to the field of education; familiarization with the practices of teachers at various levels (P-12). Information about the teacher-education sequence and career opportunities in education.

205. Foundations of Education and Psychology (Grades P-5) - 3-1-4 Overview of the history and philosophies of education, the processes of schooling in family and society, psychological principles of human growth and development (ages 5-11) and learning theories. Current educational issues, policies and practices as they impact diverse students. Field experience required. PR: PSY 101.

206. Foundations of Education and Psychology (Grades 4-12) - 3-2-4 Overview of the history and philosophy of education, the processes of schooling in family and society, psychological principles of human growth and development and learning theories. Current educational issues, policies and practices as they impact diverse students. Field experience required. PR: PSY 101 or PSY 103.

215. Integrated Arts and Cultures for Middle Grades - 3-0-3 Integrated exploration of the social sciences and the arts (visual, musical and kinesthetic) as a foundation for teaching. This course embraces liberal arts and focuses on developing culturally sensitive teachers who teach the arts and social studies in a unified context. Cultural components focus upon non-English speakers and students from diverse cultural backgrounds. Field experience required. PR: Admission to teacher-education program.

216. Culture and Communities in Middle Grades - 3-0-3 This course examines diversity issues in families, schools, and communities for teachers. Topics include family systems theory, family perspectives, differences in family structures and socio-cultural backgrounds, family-oriented community services, interactions with parents and communities, health and wellness and school culture and organization.

221. Exploration in Diverse Cultures Seminar - 0-2 hours An analysis of the educational context of another culture, application of various techniques to determine the relationship among family, society, health and schooling in a culture other than the student's own. Variable hours depending on field site.

222. Exploration in Diverse Cultures - 1 to 3 hours An analysis of the educational context of another culture. Application of various techniques to determine the relationship among family, society, health and schooling in a culture other than the student's own. Offered in May. May be repeated for up to 3 hours credit. Must be repeated by EDU majors for up to three-hours credit. Fee. PR: EDU 221.

235 Christian Ministry & Leadership 3-0-3 see REL 235

227. Preschool Curriculum and Methods - 2-2-3 History, theory, philosophy and methodology of preschool education, birth through age 6, including social, emotional, language, cognitive, physical, and aesthetic development; application of developmentally appropriate practices to support individual learning. Field experience required.

260. Technology Applications for Educators - 3-0-3 Foundation in the use of computers and related technologies in educational settings. Focuses on competence in the use of various technology tools for professional growth and productivity and for supporting instruction for a variety of students including those with limited English proficiency. Examines the concept of technology infusion in the basic instructional design and web-based delivery of content.

320. ECE Literacy Instruction - 4-0-4 Investigates theories of literacy and instructional strategies and materials. Focuses on lesson planning and materials and strategies for vocabulary (semantic and morphemic systems) and comprehension development. Explores instructional frameworks and children's literature specific to literacy development and for differentiating reading and writing instruction. Field experience required. PR: Admission to teacher-education program. CR: EDU 370WI.

321 I. Language Arts for Early Childhood - 4-0-4 Experiences with a balanced literacy program through the integration of all the language arts across the curriculum. Instructional and assessment strategies, including technology, for helping diverse learners use literacy to explore cultures, arts and sciences. Field experience required. PR: EDU 320 and admission to teacher-education program. CR: EDU 371 I.

322. Integrated Arts and Cultures for Early Childhood - 3-0-3 Integrated exploration of the social sciences and the arts (visual, musical and kinesthetic) as a foundation for teaching. This course embraces liberal arts and focuses on developing culturally sensitive teachers who teach the arts and social studies in a unified context. Cultural components focus upon non-English speakers and students from diverse cultural backgrounds. Field experience required. PR: Admission to teacher-education program.

323. Cultures and Communities in ECE- 3-0-3 This course examines diversity issues in families, schools and communities for teachers. Topics include family systems theory, family perspectives, differences in family structures and sociocultural backgrounds, family-oriented community services, interactions with parents and communities, health and wellness and school culture and organization. PR: Admission to teacher education program.

330. Language Arts for Middle Grades – 4-0-4 Experiences with a balanced literacy program through the integration of all the language arts across the curriculum. Instructional and assessment strategies, including technology, for helping diverse learners use literacy to explore cultures, arts, and sciences. Field experience required. PR: EDU 331 I and admission to teacher education program. CR: EDU 375 I

331 I. Middle Grades Literacy Instruction - 4-0-4 Investigates theories of literacy acquisition and instructional strategies and materials. Focuses on lesson planning and materials and strategies for vocabulary (semantic and morphemic systems) and comprehension development. Explores instructional frameworks and children's literature and specific to literacy development and for differentiating reading and writing instruction for grades 4 through 8. Field experience required. PR: Admission to teacher-education program. CR: EDU 376

340. Science for Early Childhood Education - 3-0-3 Science processes, materials, technology, content and standards to prepare teachers to teach hands-on science in grades P-5. Pedagogy for instructing and assessing all learners, including diversities is examined. Emphasis on content integration and the importance of science in social and environmental contexts is considered. Field experience required. PR: Admission to teacher-education program.

341. Science for Middle Grades Education - 3-0-3 Science processes, materials, technology, content and standards to prepare teachers to teach hands-on science in grades 5-8. Pedagogy for instructing and assessing all learners, including diversities is examined. Emphasis on content integration and the importance of science in social and environmental contexts is considered. Field experience required. PR: Admission to teacher-education program.

370 I. Curriculum and Methods for Early Childhood I - 2-2-3 Field-based course that examines the theoretical understanding of curriculum and methods and their application to the elementary classroom. Includes study of methods of instruction, classroom management and multiple assessment strategies for all students

including limited English proficient (LEP) and diverse populations. PR: Admission to teacher-education program. CR: EDU 320 and 322.

371 I. Curriculum and Methods for Early Childhood II - 2-2-3 Field-based course that examines the study of an integrated unit, cooperative learning, reflection and multiple strategies for all students including limited English-proficient and diverse populations. PR: EDU 370 I and admission to teacher-education program. CR: EDU 321 I, 323 and 340.

375 I. Curriculum and Methods for the Young Adolescent Learner - 2-2-3 Examines curriculum appropriate for the young adolescent's physical, social, cognitive, moral and emotional development within the contexts of diverse families, peer groups, schools and cultures. Implications for the middle-grades learning experience stressed. Field experience required. PR: EDU 206 and admission to the teacher-education program.

376. Methods and Curriculum for Middle Grades - 3-2-4 Appropriate organizational structures for middle grades. Sources and structures of curriculum, varying patterns of planning and implementation including daily plans and units. Focus on differentiated instruction that uses a variety of instructional methods and multiple assessment strategies for all students including diverse populations. Field experience required. PR: Admission to teacher-education program.

380. Curriculum and Methods for Secondary Education - 3-2-4 Appropriate organizational structures for middle grades and secondary schools. Sources and structures of curriculum, varying patterns of planning and implementation. The use of a variety of instructional methods and multiple assessment strategies for regular instruction and diverse populations including LEP students; 30 hours of field experience required. PR: EDU 206 and admission to teacher-education program.

405. Instructional Management - 2-0-2 Accompanies fall semester of field-based senior year. Applications of various techniques and approaches to organizing, managing and adapting curriculum materials and the learning environment to meet the needs of diverse learners (including Exceptional and LEP students). Development of personal plans for implementing instructional management. PR: Approval for student teaching and admission to teacher-education program. CR: EDU 488 or 489.

409. Gender and Education - 3-0-3 (See WNS 409.) Issues, research, theory and policy on gender and education. Examines gender in the context of socialization, schooling and lifelong learning and the implications for individuals, society and culture.

419. Media for Teachers - 1-0-1 Examination of newer media as well as traditional media utilized in public schools. Emphasis on innovative equipment and creative development of instructional materials. PR: Admission to teacher-education program.

420. Creative Activities in Early Childhood (P-5) and Middle-Grades (4-8) Education - 3-0-3 Creative activities, ideas and materials in various artistic mediums intended for use by teachers during the teaching process and by children during the learning process. Field experience required. PR: Admission to teacher-education program.

423. Workshop in Special Problems (Area:) - 3-0-3 Developed around special needs as they arise. Areas that may be claimed are science, social studies and/or health and physical education. PR: Admission to teacher-education program.

426. Workshop in Environmental Science - 3-0-3 Methods, procedures and materials in teaching environmental-science education. Includes laboratory and field work. PR: Admission to teacher-education program.

427. Young Adult Literature - 3-0-3 For description see ENG 427.

429. Reading Evaluation and Assessment - 3-0-3 Investigation of evaluation procedures and of formal and informal assessment materials and strategies to guide planning and adapting reading instruction for diverse

learners. Focus on collection and analysis of data, planning interventions, and engaging students with tasks to develop reading. Field experience required. PR: EDU 321 and admission to teacher-education program.

430. Reading and Writing in the Content Areas - 3-0-3 Research, theory and methodology to facilitate students' construction of content-area knowledge through reading and writing activities. Focus on simulations of a variety of vocabulary, comprehension and study strategies and on exploration of a variety of writing genres for integration into content areas. Field experience required. English majors seeking secondary certification must take this course. PR: EDU 331 I and admission to teacher-education program. No prerequisite for secondary education majors.

435. Seminar in Education - 1 to 6 hours Advanced study of current special-interest topics in education. May be repeated for credit. PR: EDU major or minor, JS or SS.

462. Applied Linguistics for ESOL Teachers - 2-0-2 Investigation of the nature of linguistic systems (phonology, morphology, syntax, semantics, pragmatics), theories of language development and the acquisition of first and second languages in diverse cultural settings. Review of idiosyncratic elements of English grammar as they pertain to second-language learning.

463. Cultures and Language - 2-0-2 Provision of basic knowledge of culture and its functions in society to increase sensitivity to and empathy for the adjustment problems of students from various cultures; development of strategies to build upon cultural backgrounds in positive ways that will facilitate adjustment to the school, the classroom, the curriculum and the community and enhance the acquisition of the English language.

464. Methods of Teaching in Bilingual/ESOL Settings - 2-2-3 Application of second-language-acquisition theory and cultural knowledge to curriculum design and method and application of whole-language and integrative curriculum approaches for the benefit of second-language learners; development of abilities to adjust lessons to the needs of second-language learners to facilitate achievement of appropriate objectives in the mainstream classroom while enhancing the acquisition of the English language. Classroom experiences and opportunities for students to apply knowledge gained in the previous courses, to gain experiences with ESOL students across age levels, to redefine and adjust teaching strategies and materials to accomplish teaching/learning objectives and language-learning objectives and to meet the needs of diverse learners.

488. Senior Practicum (Grades P-5) - 4 hours Completion of pre-planning and district orientation at assigned school. Observing, participating and microteaching under the guidance of the cooperating teacher in the school part time. Emphasis on developmental needs of early childhood learners. Fee. PR: Approval for student teaching and admission to teacher-education program. CR: PSY 423 and EDU 405.

489. Senior Practicum (Grades 4-12, P-12) - 2 hours Completion of pre-planning and district orientation at assigned school (1 credit). Observing, participating and microteaching under the guidance of the cooperating teacher in the school full time during the last two weeks of August and part time for the remainder of the semester. Fee. PR: Approval for student teaching and admission to teacher-education program. CR: EDU 405 and PSY 423.

490. Professional Seminar - 1-0-1 Accompanies spring semester of field-based senior year. Students articulate their philosophy of education, theory of curriculum and management style through discussion and portfolio development. PR: Admission to teacher-education program. CR: EDU 499.

495. Teaching of English as a Second Language: Methods and Materials - 3-0-3 Application of second-language acquisition theory and cultural knowledge to curriculum and instruction; application of sheltered instruction components and indicators. Classroom opportunities for students to gain experience with ESOL students across age and proficiency levels. Supervised field experience with limited English-proficient students required. PR: Admission to teacher-education program.

497. Student Teaching (SEC, P-12) 0-11-11 Participation and teaching under the guidance of a cooperating teacher in a school setting with college supervision. Activities include: planning lessons, implementing instruction, and assessing student outcomes during lead teaching. (For Secondary and P-12 minors needing a

one-semester option for student teaching.) PR: admission to teacher-education program and approval for student teaching. CR: EDU 490. Grading: H,S,U.

498. Directed Study - 1 to 3 hours Primarily for students who select special educational problems as an area of interest. Self-directed study provided in an area of interest not available through established courses. May be repeated up to six hours. PR: JS or SS and approval of school dean.

499. Student Teaching - 9 hours Participation and teaching under the guidance of a cooperating teacher in a school with college supervision. Planning lessons, implementing instruction and assessing outcomes during lead teaching. Fee. PR: EDU 488 or EDU 489 and admission to teacher-education program. CR: PSY 424 and EDU 490.

ENG ENGLISH, RHETORIC AND WRITING

(Evans School of Humanities, Arts and Social Sciences)

095. Introduction to College Writing - 3-0-0 Designed to assist students with basic elements of grammar, sentence structure and paragraphing; will help students make the transition to college-level writing where analytical thinking and writing replace narrative and descriptive writing. Satisfactory or Unsatisfactory.

101. First-Year Seminar in Rhetoric and Writing - 3-0-3 Emphasis on development of analytical and rhetorical thinking and writing skills appropriate for civic, academic and professional audiences. Recognition and manipulation of the basic parts of the expository essay (i.e. theses; topic ideas; transitions; paragraph structure and development; introductions and conclusions). Introduction to elements of process writing, including pre-writing, drafting, and revision strategies and rudiments of citation and documentation. PR: Satisfactory score on college aptitude test. A grade of C- or better is required to satisfy the general-education requirement. Matriculated Berry students may not transfer in credit from another institution for this course.

102. First-Year Seminar in Critical Inquiry and Writing - 3-0-3 Continued development of the thinking and writing skills begun in ENG 101 with emphasis on multiple modes of critical inquiry and research to develop arguable perspectives within particular cultural contexts and conversations. The course will also address the rhetorical concepts of persona, ethos, pathos, argument structure, counterargument, and logical fallacy. PR: A grade of C- or better in ENG 101 or a score of 4 or better on an appropriate Advanced Placement Test. A grade of C- or better is required to pass out of this course. Matriculated Berry students may not transfer in credit from another institution for this course.

200. Rhetoric and Writing Practicum - 3 hours This course is by permission of instructor only and is designed for students who work in Berry's Writing Center. Discussion of theoretical models of writing and application of those models in an instructional setting. May be repeated for up to three credits. PR: ENG 101 and 102 and permission of the director of the Writing Center.

201. Topics in Literature - 3-0-3 Survey of literature focusing on a particular topic, theme, or genre. Introduction to the basic methods of textual analysis and critical interpretation. May be retaken for credit, provided course content varies. May be repeated twice in Major for elective. PR or CR: ENG102

204. Introduction to Linguistics - 3-0-3 General overview of the history, phonology, morphology, syntax, semantics and discourse of English with emphasis on applications, including first- and second-language acquisition. This course may not be used to satisfy the general-education literature requirement for any major, including the education majors.

208. Introduction to Film - 3-0-3 (See FLM 210.) Introduction to the appreciation and critical analysis of film, with some discussion of the historical development of film production and film form. Course may not be used to satisfy the general-education literature requirement.

210. British Literature I - 3-0-3 Survey of selected major works, writers and genres from Beowulf through the

Restoration. PR or CR: ENG 102.

211. British Literature II - 3-0-3 A selected survey of authors from the United Kingdom, British Empire and later Commonwealth who have shaped and responded to English literary traditions from the 18th century to the present. CR: ENG 102.

214. World Literature - 3-0-3 Survey of selected major works, writers and genres from world literatures. PR or CR: ENG 102.

220. American Literature I - 3-0-3 Survey of major American writers to 1865. Emphasis on major writers, contexts and approaches to literature. PR or CR: ENG 102.

221. American Literature II - 3-0-3 Survey of major American writers from 1865 to the present. Emphasis on major writers, contexts and approaches to literature. PR or CR: ENG 102.

240. Introduction to Literary Studies - 3-0-3 Introduction to close reading and analysis of literary genres; to basic models of literary theory, evaluation and criticism; and to methods of research and writing appropriate to literary analysis. PR or CR: ENG 102.

300. Writing for Online Environments - 3-0-3 Introduction to technical and rhetorical elements of writing in online environments. Students will learn how to present information in online formats for a variety of purposes, audiences and clients including commercial sites, not-for-profit organizations, educational or academic institutions, and government or civic entities. PR: ENG 102.

301. Introduction to Creative Writing: Poetry - 3-0-3 Introductory writer's workshop in poetry. Primary focus on the study of basic technical elements of genre in selected readings. Concentration on critique of original student work. PR or CR: one 200-level literature course.

302. Introduction to Creative Writing: Fiction - 3-0-3 Introductory writer's workshop in short fiction or the novella, with primary focus on the basic technical elements of genre in selected readings. Concentration on critique of original student work. PR or CR: one 200-level literature course.

303 I. Advanced Rhetoric and Writing - 3-0-3 Exploration of more advanced forms and concepts in essay development for academic, professional and civic audiences; classical and modern stylistics in writing. PR: ENG 102.

304. Introduction to Playwriting - 3-0-3 Creation of original scripts for theatre; instruction in the craft of playwriting and guidance toward constructive self-criticism. Selected readings from classical or contemporary playwrights. Possible selection of student work for reading and performance. PR or CR: one 200-level literature course.

305. Creative Writing: Creative Nonfiction - 3-0-3 Workshop in writing short- and/or long-form creative nonfiction with primary focus on applying narrative and lyrical techniques to the essay. Selected readings will examine trends in form and content. Concentration on critique and revision of original student work. May be repeated for a maximum of six credit hours. PR: One 200-level literature course.

306. Principles of Writing Pedagogy - 3-0-3 An introduction to the central discourse theories and pedagogical principles in the field of composition and rhetoric. Through observation and practice, participants will learn how to teach the writing process in both group and individual instructional settings, to design a developmental arc of writing assignments, and to respond to and evaluate the work of a variety of student populations. PR: ENG 102.

316. Medieval Literature - 3-0-3 Advanced study in the poetry, prose and drama of Medieval England; emphasis on historical, linguistic and intertextual contexts. Readings in Beowulf, medieval lyrics and romances, as well as major authors, including Chaucer, Langland and Malory. PR: one 200-level literature course.

318. Renaissance Literature - 3-0-3 Advanced study in the poetry, prose and drama of Renaissance England,

with emphasis on the epics of Spenser and Milton, Shakespeare's nondramatic poetry, as well as Wyatt, Sidney, Jonson and Donne. PR: one 200-level literature course.

323. Restoration and 18th-Century Literature - 3-0-3 Advanced study in the poetry, drama, long fiction and/or nonfiction of the Restoration and 18th-century England. Emphasis on major writers, contexts and approaches to literature. PR: one 200-level literature course.

325. Romantic Literature - 3-0-3 Advanced study in poetry, fiction and prose of English Romantic literature, focusing on the major authors and their mutual influence. PR: one 200-level literature course.

327. Victorian Literature - 3-0-3 Advanced study of English Victorian literature, focusing on the interconnections between major authors, genres and the cultural contexts of the period. PR: one 200-level literature course.

329. Modern British Literature - 3-0-3 Advanced study in selected works of British poetry, drama, fiction and nonfiction from 1900 to 1945, including such authors as Conrad, Yeats, Joyce, Woolf and Lawrence. PR: one 200-level literature course.

331 I. Contemporary Literature - 3-0-3 Advanced study of poetic, dramatic, fictional and nonfictional literature from 1945 to the present, with emphasis on experimental forms. PR: one 200-level literature course.

332. Postcolonial Literature - 3-0-3 Advanced comparative study of contemporary literatures from formerly colonized nations, with emphasis on selected works from Africa, India and the Caribbean. Focus on major authors and cultural contexts. PR: one 200-level literature course.

333 I. American Romanticism and Transcendentalism - 3-0-3 Advanced study of the poetry and prose of the American Renaissance, 1820-1865, with particular emphasis on the literary and cultural contexts of romanticism and transcendentalism. PR: one 200-level literature course.

334 I. American Realism and Naturalism - 3-0-3 Advanced study of the poetry and prose of American realism and naturalism from 1865 until the turn of the century, focusing on the connections between major authors, genres and cultural contexts of the period. PR: one 200-level literature course.

335 I. Twentieth-Century American Literature - 3-0-3 Advanced study of the poetry, drama and prose of the American 20th century. PR: one 200-level literature course.

337. Western Literary Tradition - 3-0-3 Study of historically and/or generically related masterpieces of Western literature. PR: one 200-level literature course.

339 I. African-American Literature - 3-0-3 Advanced study of African-American literature from the 18th century through the present, focusing on major authors and genres, cultural contexts and African-American aesthetics. PR: one 200-level English literature course.

342. Women's Literature - 3-0-3 Concentrated study of works of women writers and application of feminist criticism. Emphasis on major writers, contexts and approaches to literature. May be retaken for credit provided the course content varies. PR: one 200-level literature course.

365. Language and Gender- 3-0-3 Study of current theories of language and gender, including both the ways our language is used to describe people based on gender and the ways people create their own gender identify in part by how they use language. (See WNS 365).

401 I. Shakespeare - 3-0-3 Shakespeare's enduring meaning as revealed by his dramatization of Renaissance ethics in his comedies, histories, tragedies and romances. PR: one 200-level literature course.

- 418. Studies in Cinema - 2-2-3** The fiction film as an art form, with emphasis on significant directors, film techniques and viewing of selected motion pictures. May be retaken for credit, provided course content varies. PR: one 200-level literature course.
- 419 I. Sociolinguistics - 3-0-3** Study of the ways language functions within society, including language variation and change, pidgins and creoles, bilingualism, ethnography of speaking and language policy. PR: One 200-level ENG literature course or ANT 200 or SOC 200.
- 420 I. Studies in Literary Criticism and Theory - 3-0-3** Advanced studies in the modes of critical writing and theories of literature and criticism. Emphasis on both history and current practice of critical theoretical models. May be retaken for credit, provided course content varies. PR: one 200-level literature course.
- 422. Studies in Major Author(s) - 3-0-3** Concentrated advanced study in the work of one or more major authors. Authors considered may represent one or more national literatures. May be retaken for credit, provided course content varies. PR: one 200-level English course.
- 424. Studies in Theme - 3-0-3** Concentrated advanced study in a literary theme, including such topics as the hero in literature, adolescence, family, the archetypal journey and death. May be retaken for credit, provided course content varies. PR: one 200-level literature course.
- 426 I. Studies in Genre - 3-0-3** Concentrated advanced study in one of the principal literary genres: poetry, drama, the novel or nonfictional prose. May be retaken for credit, provided course content varies. PR: one 200-level literature course.
- 427. Young Adult Literature - 3-0-3** The nature of young-adult literature; relevant developments in young-adult literature; strategies for promoting reading; ways to initiate deep thinking about literary works; young-adult literature and nonprint media; and pedagogical considerations in teaching literature. PR: ENG 102 and minor in English secondary education or major in middle grades.
- 428. Topics in Literature and Language - 3-0-3** Concentrated advanced study in a special topic in Western literature or culture. May be retaken for credit, provided course content varies. PR: one 200-level literature course.
- 432 I. Studies in Southern Literature - 3-0-3** Advanced study of Southern writers with emphasis on the Southern Renaissance, especially the works of Faulkner, O'Connor and Welty. May be retaken for credit, provided course content varies. PR: one 200-level literature course.
- 434. Studies in Linguistics - 3-0-3** Advanced studies in theoretical and applied linguistics. Emphasis on social and historical influences on English language structure and use. May be retaken for credit with different topic. PR: one 200-level literature or linguistics course.
- 436. Studies in British Culture - 3-0-3** Lectures, readings, travel and writing project work undertaken in conjunction with the Study-in-Britain program.
- 450. Senior Project - 3-0-3** Advanced study in literary theory and research methods; writing the extended critical paper. PR: SS.
- 470. Advanced Creative Writing: Poetry - 3-0-3** Advanced work in poetry writing, with emphasis on developing a more sophisticated sense of technical and aesthetic elements in poetry. Workshop format focusing on critique and revision of student work. Selected readings from classical or contemporary poets. May be repeated for a maximum of six credit hours. PR: completion of ENG 301 or 302.
- 471. Advanced Creative Writing: Fiction - 3-0-3** Advanced work in various classical or contemporary fictional forms, with emphasis on developing a more sophisticated sense of technical and aesthetic elements in fiction. Workshop format focusing on critique and revision of student work. Selected readings from classical or contemporary writers. May be repeated for a maximum of six credit hours. PR: completion of ENG 301 or 302.

490. Writer's Tutorial - 3-0-3 Independent instruction in writing genres, which may include fiction, poetry, expository essays and literary critical essays. May be repeated for no more than six credit hours. PR: one 300-level writing course.

496. Academic Internship - 3 hours Problem-oriented experiences on specific academic projects related to the individual student's program of study and planned in consultation with the student's advisor. PR: See general provisions for academic internships in this catalog.

498. Directed Study - 1 to 3 hours Research planned according to the needs of the individual student. PR: JS or SS and approval of school dean.

EVS ENVIRONMENTAL SCIENCES

(School of Mathematical and Natural Sciences)

104. Introduction to Environmental Sciences - 3-2-4 Introduction to basic physical and ecological concepts and principles that are pivotal to the sustainable management of our earth's ecosystems. Lab experimentation with and observation of the environment.

405. Environmental Sciences Methods - 2-4-4 Introduction to measurement theory as applied to environmental studies, emphasizing data acquisition, analysis and display. Statistical methods including sampling procedures, frequency distributions, measures of central tendency, log dose-response curves and bioassay. Lecture and lab applications of the scientific approach to a variety of environmental problems; hands-on experience in identification of factors affecting environmental quality. PR: BIO 112, CHM 108 and MAT 111.

480. Advanced Topics in Environmental Science - 1 to 4 hours Instruction in advanced topics of interest in the environmental sciences. Emphasis will be placed on applications practical to the current job market and graduate-school admissions requirements. May be repeated for up to 4 hours of credit with different topics. PR: EVS 104 or CI.

490. Environmental Sciences Seminar - 1-0-1 An opportunity for students to draw together the various areas of environmental sciences for a detailed analysis of some particular problem of interest to them and to gain a broader perspective from outside speakers and individual presentations.

496. Academic Internship 1 to 4 hours - Problem oriented experiences on specific academic projects relating to the individual student's program of study, planned in consultation with the student's advisor. Program approval required; no more than four credit hours may be applied to the environmental science major. Major Core Elective for both science and non-science based concentrations.

FAM FAMILY STUDIES

(Charter School of Education and Human Sciences)

230. Marriage and the Family - 3-0-3 Contemporary American marriage and family relationships, including communication, marriage and family interaction, conflict and other specific areas of marriage preparation and adjustment.

300. Family Problems and Intervention - 3-0-3 Students will learn the general philosophy and broad principles of family life education, in conjunction with the ability to plan, implement, and evaluate such educational programs. Process-oriented teaching methods are stressed with students observing family life education in practice, and developing their own curriculum presentations. PR: FAM 230.

330 I. Family Life Education- 3-0-3 Overview of intervention methods and analysis of divorce and step-family

issues, substance abuse and addiction, child physical and sexual abuse, domestic violence and chronic and terminal illness. PR: FAM 230.

440. Child and Family Policies 3-0-3- Global analysis of social policies that impact children, families, and communities, including education, economic, work, health, housing, criminal justice, family policies, and contemporary social issues and events that affect child and family well-being. PR: FAM 230. Elective for Family Studies minor.

496. Academic Internship - 3 to 12 hours Problem-oriented experiences in specific academic projects related to the individual student's program of study, planned in consultation with the student's advisor. PR: See general provisions for academic internships in this catalog.

498. Directed Study - 0-3-3 Self-directed study, employing research techniques, critical reviews, observations and bibliographical aids used to guide the student in developing a research paper. PR: FAM 230; FAM minor; and approval of school dean and directed-study advisor during the semester preceding enrollment. (May be repeated for up to six hours of credit.)

FIN FINANCE

(Campbell School of Business)

235. Personal Finance - 3-0-3 Broad coverage of personal financial decisions, including basic financial planning, tax issues, managing savings and other liquid accounts, buying a house, the use of credit, insurance, managing investments and saving for retirement.

301. Principles of Finance - 3-0-3 Survey of theory and quantitative techniques necessary for financial decision making within a corporation. Topics include financial-ratio analysis, the time value of money, valuation, the cost of capital, cash-flow estimation and analysis, and capital-budgeting techniques. PR: ACC 201.

310. Investments - 3-0-3 Introduction to financial investment with an emphasis on the concerns of the individual investor. Risk and return; investing in stocks, bonds and mutual funds; portfolio construction and management; and other basic concepts are covered. PR: FIN 301.

331. Financial Markets, Institutions and Money - 3-0-3 (See ECO 331.)

401. Intermediate Corporate Finance - 3-0-3 More advanced coverage of corporate finance topics. Acquisition, allocation and disbursement of the financial resources of the firm. Capital budgeting, risk, capital structure, dividend policy, mergers and acquisitions, and other areas are covered. PR: FIN 301.

410. Portfolio Management/Investment Analysis - 3-0-3 Explains portfolio theory and covers creating, managing and evaluating portfolios. Examines stocks, bonds, and derivative securities, individually and as part of a portfolio. PR: FIN 301 and FIN 310.

420. Models and Cases in Managerial Finance - 3-0-3 Case-study course that provides a rigorous treatment of financial concepts and theories covered in FIN301 and FIN401. The topics develop on issues/discussions related to corporations in real and hypothetical settings and include the following: the main tenets of finance, long-term financing, cost of capital, project evaluations, firm valuation, acquisitions and takeovers, multinational capital budgeting, derivatives, currency risk management, economic value added, and working capital management. PR: FIN401 or CI.

440. International Economics and Finance - 3-0-3 (See ECO 440.)

455. Futures and Options Markets - 3-0-3 Examination of the usefulness of derivative securities in financial-risk management, how these securities are traded, and their valuation. PR: FIN 301.

460. Topics in Finance - 3-0-3 Intensive examination of a timely finance topic. Not repeatable for credit within the major. PR: CI.

496. Academic Internship - 3 hours Student will work in a professional setting under a faculty member who provides guidance and works with the student and on-site work supervisor to integrate work experiences and the student's educational and professional goals. Development of a learning contract. PR: CI.

498. Directed Study - 3-0-3 In-depth study of a finance topic in an individualized program designed by the student and the faculty sponsor. Alternatively, may involve working with a faculty member on a research project. PR: JS or SS and approval of dean; CI.

FLM FILM

(Evans School of Humanities, Arts and Social Sciences)

210. Introduction to Film - 3-0-3 (See ENG 208.) The importance of film in the study of 20th-century Western society and the representation of various sociopolitical and economic issues confronting it.

301. Film as History - 3-0-3 (See HIS 301.) Study of the use, misuse and value of historical subjects depicted in film. Uses films from a variety of genres, times and places as test cases for analysis of historical events, periods and personalities. PR: FLM 210 or, one History course (HIS 154, 155, 205, or 206) or CI

350. Topics in the History of Film - 3-0-3 Emphasis upon a particular period or movement in the history of film, the work of a particular director or a particular national cinema. May be retaken for credit. PR: FLM 210 or CI.

418. Special Topics in Film - 3-0-3 Special topics in film, including treatment of particular themes, genres or subjects of interdisciplinary interest. May be retaken for credit. PR: FLM 210 or CI.

FRE FRENCH

(Evans School of Humanities, Arts and Social Sciences)

101. Introduction I to French Language and Culture- 4-1-4 Acquisition of the fundamentals of speaking, listening, reading and writing.

102. Introduction II to French Language and Culture- 4-1-4 Further development of basic language skills introduced in French 101. PR: FRE 101 or departmental placement.

200. French in Review: Language, Culture and History (Intermediate) - 4-1-4 Completion of basic linguistic structures. Applied conversation, reading of literary and other texts and composition. PR: FRE 102 or departmental placement.

204FLA. Special Topics in Foreign Languages - 3-0-3 Special topics in languages not covered by the regular curriculum. May be repeated for credit.

205-305. French Study Abroad - 3 to 9 hours Taught in France. Intensive study of French language and culture through class work, conversation and travel. Credit is assigned at the 200 or 300 level, depending upon previous language experience. These courses may complete the B.A. foreign-language requirement. Honors, satisfactory or unsatisfactory. PR: FRE 101-102 or departmental placement.

301. Advanced French Conversation - 3-1-3 Review of grammar and improvement of speaking skills through discussion of French culture and civilization. PR: FRE 200 or departmental placement.

302. Advanced French Composition - 3-0-3 Review of grammar and improvement of writing skills. PR: FRE 200 or departmental placement.

- 303. Introduction to French and Francophone Literature - 3-0-3** Reading of excerpts from French authors, with emphasis on broadening vocabulary and appreciation of stylistic features. PR: FRE 200 or departmental placement.
- 304. French Phonetics - 3-1-3** Phonetic description of French, phonetic transcription and workshop sessions in corrective phonetics. PR: FRE 200 or departmental placement.
- 306. French for Other Disciplines - 1 to 3 hours** A component of the program in Foreign Languages Across the Curriculum, taught in conjunction with a course from another discipline. Selected materials in French and weekly meetings to discuss them in French with student's professor. Special authorization required. May be repeated for credit. PR: FRE 200 or equivalent proficiency.
- 323. French Culture - 3-0-3** French history, art, politics and social structures. PR: FRE 200 or departmental placement. Usually taught in France.
- 400FLA. Foreign-Language Education in the Elementary School - 3-0-3** Methods of classroom procedures, functional units, use of audiovisual aids/media and evaluation of pupil growth in grades K-6. Field experience required. Not counted in major or minor but required in professional-education sequence. PR: FRE, GER or SPA 301; or FRE, SPA 302.
- 401 I. French Literature Prior to 1800 - 3-0-3** Overview of important literary works prior to 1800, with reading of excerpts. PR: any 300-level FRE.
- 402 I. French Literature of the 19th and 20th Centuries - 3-0-3** Overview of important literary works from the nineteenth century to the present, with reading of excerpts. PR: any 300-level FRE.
- 403. Masterpieces in French and Francophone Literature - 3-0-3** Analysis of French literary masterpieces. PR: any 300-level FRE.
- 404. French Business Communication - 3-0-3** Development of oral and written skills in business and transactions, with discussion of France's economic and political role in Europe. PR: any 300-level FRE.
- 405. Topics in French - 3-0-3** An introduction to modern French intellectual movement as reflected in literature, philosophy and politics, including the reading and translation of appropriate texts. PR: any 300-level FRE.
- 406. Senior Project - 1 credit hour** Writing of an 8- to 10-page paper and oral defense of it during the student's last semester.
- 496FLA. Academic Internship - 3 to 12 hours** Problem-oriented experiences on specific academic projects related to the individual student's program of study and planned in consultation with the student's advisor. PR: See general provisions for academic internships in this catalog.
- 498. Directed Study - 1 to 3 hours** Research projects under the direction of the instructor. PR: JS or SS and approval of school dean; any 400-level FRE course and CI; for majors only.

GEO GEOLOGY

(School of Mathematical and Natural Sciences)

- 101. Physical Geology - 3-2-4** Introductory study of the materials, structure and surface features of the earth; the processes responsible for their development; the physical and chemical processes that operate to modify them; the concept of geologic time; and the application of geologic knowledge to human environmental and resource problems. Lab including field trips to local geological sites and exercises in mapping, identification of rock types

and soil analysis.

102. Historical Geology - 3-2-4 Introduction to earth history; the origins of earth, life on earth and subsequent abiotic and biotic evolution; the development of the sedimentary and stratigraphic record of earth's history, the geologic time-scale; the concept of continental drift and past climates; as well as the interrelationship between the chemical, biological and geological systems over time.

151. Geology of National Parks - 2-3-4 An introduction to the basic physical and historical geology of America's national parks. An appreciation and awareness of the natural world as represented in the national park system from the formation of the physical landscape to the geographic and historical settings of these areas. Open to all students. May be used as a general-education course. Enrollment in GEO 151 precludes future enrollment in GEO 350 when GEO 350 is held at the same site.

155. Geology Field Studies Abroad- 2-3-4 A field-oriented course in a foreign country studying features such as geothermal springs, glaciers, extensional rift systems, dynamic fault zones, glacial/fluvial/lacustrine sequence stratigraphy, volcanoes (strato, cinder, and composite types), and volcanic features (pillow and pahoehoe lavas, pyroclastic debris). Credit will not be given for both GEO 155 and GEO 350 when taught at the same time.

320. Environmental Geology - 3-3-4 Introduction to the interrelationships between various elements of the earth's environment and human activity. Application of geological and geochemical concepts to the study of the earth's near-surface environment. Topics include water supply and pollution, geologic hazards, land-use planning, soil contamination, environmental management and global climate change-global warming and ozone depletion. Field trips and laboratories included. PR: GEO 101. CR: MAT 111 and CHM 108 or CI.

350. Advanced Topics in Geology - 1 to 4 hours Advanced topics of interest in the earth sciences. These might include topics which focus on an interdisciplinary approach or which are not currently available in the departmental curriculum. Enrollment in GEO 350 precludes future enrollment in GEO 150 or 151 when GEO 150 or 151 is held at the same site. PR: GEO 101.

360. Geomorphology - 3-3-4 This course will focus on the erosional and depositional processes operating at the earth's surface and landforms resulting from these processes. Topics covered include weathering, slope and fluvial processes within drainage basins, and glacial environments. Two mandatory weekend field trips. PR: GEO 101.

420. Hydrology - 3-2-4 Emphasis on the major principles of surface and groundwater hydrology and their application to contemporary hydrologic problems. The study of the occurrence, movement and exploitation of water in geologic materials. Topics include a thorough exploration of the hydrologic cycle, river flow and flooding, groundwater chemistry, the relationship of geology to groundwater occurrence, basin-wide groundwater development and groundwater contamination. PR: GEO 101 and 320 or CHM 109 or CI.

496. Academic Internship - 3-6 hours variable Problem-oriented experiences on specific academic projects relating to the individual student's program of study, planned in consultation with the student's advisor. Departmental approval required; no more than four credit hours may be applied to the geology minor as an elective. PR: See general provision for academic internships in this catalog.

498. Directed Study - 1 to 4 hours Individual research or directed investigation of a geologic topic approved by the instructor.

GER GERMAN

(Evans School of Humanities, Arts and Social Sciences)

101. Introduction I to German Language and Culture - 4-1-4 Acquisition of the fundamentals of speaking, listening, reading and writing.

102. Introduction II to German Language and Culture - 4-1-4 Further development of basic language skills introduced in German 101. PR: GER 101 or departmental placement.

200. German in Review: Language, Culture, History (Intermediate) - 4-1-4 Completion of basic linguistic structures. Applied conversation, reading of short stories and cultural texts, general review of grammar. PR: GER 102 or departmental placement.

204FLA. Special Topics in Foreign Languages - 3-0-3 Special topics in languages not covered by the regular curriculum. May be repeated for credit.

205-305. German Study Abroad - 3 to 12 hours Taught in Germany and Austria. Intensive study of German language and culture through class work, conversation and travel. Credit is assigned at the 200 or 300 level, depending upon previous language experience. These courses may complete the B.A. foreign-language requirement. Honors, pass or fail. PR: GER 101-102 or departmental placement.

301 I. Communication, Interpretation and Cultural Awareness I (advanced) - 3-1-3 Intense review of grammar, improvement of speaking and writing skills focusing on language development for personal, familial and small-group interactions. PR: GER 200 or departmental placement.

302 I. Communication, Interpretation and Cultural Awareness II (advanced) - 3-1-3 Intensive review of grammar, speaking and writing skills focusing on development of linguistic strategies and style for use in business, political or other formal settings. PR: GER 200 or departmental placement.

303. Introduction to Major Works and Authors in German Literature - 3-0-3 Study of German literature by reading and discussion of excerpts of major works. PR: GER 200 or departmental placement.

304. Germany in Global Perspective - 3-0-3 The role of Germany in Europe and the rest of the world from a historical, literary, artistic and cultural perspective. Emphasis is on development of Germany within the European Union. PR: GER 200 or departmental placement.

306. German for Other Disciplines - 1 to 3 hours A component of the Foreign-Languages-Across-the-Curriculum Program. Taught in conjunction with a course from another discipline. Selected materials in German and weekly meetings to discuss them in German with their professor. Special authorization required. May be repeated for credit. PR: GER 200 or equivalent proficiency.

323. Aspects of Contemporary German Culture and Society - 3-0-3 German history, art, politics and social structures. PR: GER 200 or departmental approval. Usually taught in Germany.

400FLA. Foreign-Language Education in the Elementary School - 3-0-3 Methods of classroom procedures, functional units, use of audiovisual aids/media and evaluation of pupil growth in grades K-6. Field experience required. Not counted in major or minor but required in professional-education sequence. PR: FRE, GER or SPA 301; or FRE, SPA 302.

401. German Literature from Enlightenment to Romanticism - 3-0-3 Literature of Storm and Stress, classicism and romanticism. PR: any 300-level GER.

402. German Literature from Realism to Postmodernism - 3-0-3 Literature of realism, impressionism, expressionism, prewar and postwar literature. PR: any 300-level GER.

403. German Economy and Business Communication - 3-0-3 Study of the social market economy of Germany and development of speaking and writing skills in business and trade transactions. PR: any 300-level GER.

405. Topics in German - 3-0-3 Various trends in German literary, philosophical and/or political thought. PR: any 300-level GER course.

406 I. German Film and Film Makers - 2-2-3 Survey of German film with special attention to its literary and sociocultural context and to pertinent theories of photography and of cinematic narration. PR: any 300-level German course.

496FLA. Academic Internship - 3 to 12 hours Problem-oriented experiences in specific academic projects relating to the individual student's program of study and planned in consultation with the student's advisor. PR: See general provisions for academic internships in this catalog.

498. Directed Study - 1 to 3 hours Research projects under the direction of the instructor. PR: JS or SS and approval of school dean; any 400-level GER and CI; for majors only.

GOV POLITICAL SCIENCE AND INTERNATIONAL STUDIES

(Evans School of Humanities, Arts, and Social Sciences)

207. Contemporary World Issues - 3-0-3 Major issues in world affairs, including security issues, international financial and trading regimes, global ecopolitics and ethnic conflicts. Elaborate coverage of emerging crises or conflicts or other notable world developments.

211. American National Government - 3-0-3 An introduction to the ideas and institutions that constitute American political life.

217. Introduction to Comparative Politics - 3-0-3 Introduction to the different types of political systems and to contemporary theoretical approaches used in the comparative analysis of these systems. Connections among political systems, political culture, ideologies and social systems.

231. Model United Nations - 1-0-1 Simulation that provides the basic structural tenets and procedural framework of the United Nations and a working knowledge of the national interests of a member state. Students attend a regional MUN as simulated diplomats, responsible for discovering the most desirable solution to an international problem for their state. May be repeated for a total of three credit hours applied to the government major and the comparative-politics/ international-relations track of the international-studies major. Fee \$75.

318. Ancient Political Philosophy - 3-0-3 A close reading of some of the leading texts of classical political philosophy and Christian thought, including such writers as Aristophanes, Plato, Aristotle, St. Augustine and St. Thomas Aquinas. PR: GOV 207 or GOV 211 or GOV 217 or CI.

319. Modern Political Philosophy - 3-0-3 A close reading of some of the leading texts of modern political philosophy, including such writers as Machiavelli, Hobbes, Locke, Rousseau, Marx and Nietzsche. PR: GOV 207 or GOV 211 or GOV 217 or CI.

320. Comparative Politics of Western Europe - 3-0-3 Comparison of the political systems of Britain, France, Germany, Italy and the European Community. Examination of relationships between political institutions and behavior with emphasis on electoral systems and party systems. Analysis of contemporary political movements and the problems of European integration. PR: GOV 207 or GOV 211 or GOV 217 or CI.

321 I. International Relations - 3-0-3 Introduction to the contemporary international system. State and nonstate actors and the instruments used to achieve their objectives; approaches to peace including arms control, international organizations and international law. PR: GOV 207 or GOV 211 or GOV 217 or CI

323. Revolution and Political Violence - 3-0-3 Examines the phenomenon of revolution-causes and methods used by revolutionary movements to effect regime change. Case studies include the French, Russian, Chinese, Cuban and Iranian revolutions. PR: GOV 207 or GOV 211 or GOV 217 or CI

329. Political Thought Today - 3-0-3 A close reading of some of the books that shape political debate today in

the United States and throughout the world. PR: GOV 207 or GOV 211 or GOV 217 or CI

330. American Founding - 3-0-3 Study of the political origins and nature of the Founding period in America, especially the writing of the American Constitution and the subsequent Federalist/Antifederalist debates. The American experience will be used as an occasion to consider the phenomenon of political foundings more generally. PR: GOV 207 or GOV 211 or GOV 217 or CI

333. American Political Development - 3-0-3 How American political institutions and practices have changed over time, with emphasis on the constitutionality, cause and consequences of these changes.. PR: GOV 207 or GOV 211 or GOV 217 or CI

335. Political Parties and Interest Groups - 3-0-3 A study of the origin, development and contemporary practices of political parties and interest groups in the constitutional system of the United States. PR: GOV 207 or GOV 211 or GOV 217 or CI

336. American Political Thought - 3-0-3 Close reading and analysis of historically crucial and representative American political texts that have informed America's political debates over the meaning and realization of America's political identity. These texts stretch from America's first founding, the arrival of the Puritans, to contemporary thought. PR: GOV 207 or GOV 211 or GOV 217 or CI

338. Presidency and Congress - 3-0-3 Presidential and Congressional elections and institutional structure as influences on executive and legislative behavior. Patterns of executive-legislative interaction in policy making. Relationships among the presidency, the Congress, the bureaucracy, the press and the public. PR: GOV 207 or GOV 211 or GOV 217 or CI

339 I. Politics and History of Russia - 3-0-3 Survey of Russian political history, with emphases on the revolutions of 1905 and 1917, Stalinism, the collapse of Communism and democratization in the post-Soviet successor states. PR: GOV 207 or GOV 211 or GOV 217 or CI

343. Comparative Politics of South Asia - 3-0-3 Comparative survey of political development and current politics in India, Pakistan, Bangladesh, Nepal and Sri Lanka. Investigation of the historical, cultural and institutional factors that affect political behavior. PR: GOV 207 or GOV 211 or GOV 217 or CI

344. Politics and History of East Asia - 3-0-3 Examination of political history of the Confucian societies of East Asia: China, Japan, Korea, Taiwan and Vietnam. Topics will include the dynastic cycle, imperialism, revolution and contemporary democratization. PR: GOV 207 or GOV 211 or GOV 217 or CI

358. Politics of Latin America - 3-0-3 Introduction to and overview of political systems and political behavior in Latin America. Emphasis on historical, social and economic factors shaping contemporary political structures and processes. PR: GOV 207 or GOV 211 or GOV 217 or CI

365. War Crimes and Genocide - 3-0-3 Study of the causes and meaning of war crimes and genocide. The Law of War and specific atrocities and genocides are studied to achieve critical perspective of the most extreme forms of political violence. PR: GOV 207 or GOV 211 or GOV 217 or CI

393 I. Social-Science Research Methods - 3-0-3 Introductory research methods course for social scientists. Examination of the nature of scientific inquiry, appropriate research design, techniques of data collection, data analysis, development of research-policy implications and research ethics. Emphasis on the linkage between theory and research methods. PR: GOV 207 or GOV 211 or GOV 217 or CI

406. Senior Project - 3-0-3 A research project involving a paper or series of papers that will integrate and develop what the student has learned in the major courses. A capstone course for government and international-studies majors. PR: SS, major, CI.

410. Conflict and Cooperation in World Politics - 3-0-3 Examination of the contending theories of conflict, focusing on interstate war, nationalist and ethnic conflict and terrorism. Explores the causes of conflict as well as

strategies for preventing and limiting conflict, with reference to historical and contemporary cases. Considers major strategies employed in the postwar period in the promotion of international cooperation. PR: GOV 321WI.

411. International Law and Organizations - 3-0-3 Examination of the contending theories of international law and organizations. Considers the impact of international law and organizations on state behavior and interstate cooperation in the issues of war and peace, human rights and economics. Particular emphasis on the role of the United Nations, European Union and North Atlantic Treaty Organization. PR: GOV 321WI.

417. Constitutional Law: American Political Institutions - 3-0-3 Close reading of leading Supreme Court opinions dealing with American political institutions. PR: GOV 207 or GOV 211 or GOV 217 or CI

418. Constitutional Law: Civil Liberties and Civil Rights - 3-0-3 Close reading of leading Supreme Court opinions dealing with civil liberties and civil rights. PR: GOV 207 or GOV 211 or GOV 217 or CI

420. Public Administration and Public Policy - 3-0-3 Bureaucracy and policy making in the constitutional system of the United States. PR: GOV 207 or GOV 211 or GOV 217 or CI

421. International Relations Theory - 3-0-3 Advanced examination of the dominant theoretical approaches to the study of international relations and the substantive areas of global conflict and cooperation, international law and organization, international political economy, and global, social and environmental issues. Students will research and write a substantive paper involving original research or a critical review of the literature. PR: GOV 321 I.

435. Foreign-Policy Analysis - 3-0-3 Advanced analysis of the process and determinants of foreign-policy making, with emphasis on the formulation and conduct of U.S. foreign policy. PR: GOV 321I or CI.

450. Seminar in Political Science - 3-0-3 In-depth examination of particular political questions, with emphasis on intensive reading and discussion. (Government majors may enroll a maximum of two times in the course; government minors and non-majors are limited to one enrollment.) PR: GOV 207 or GOV 211 or GOV 217 or CI

496. Academic Internship - 3, 6, 9 or 12 hours Problem-oriented experiences in specific academic projects relating to the individual student's program of study, planned in consultation with the student's advisor. PR: See general provisions for academic internships in this catalog.

498. Directed Study - 1 to 3 hours Supervised reading in political science when the area of study is highly specialized or the material is not otherwise available in the departmental curriculum. PR: second-semester JS or SS and approval of school dean.

HIS HISTORY

(Evans School of Humanities, Arts and Social Sciences)

154. World History to 1550 - 3-0-3 History of the world from the first humans to the 16th century, focusing on major themes, ideas and forces shaping world history, including political, economic and cultural formations.

155. World History Since 1550 - 3-0-3 History of the world from the 16th century to the present, focusing on major themes, ideas and forces shaping world history, including political, economic and cultural formations.

205. American History to 1877 - 3-0-3 Political, economic, social, diplomatic and cultural development of America from the Colonial era through Reconstruction.

206. American History Since 1877 - 3-0-3 Political, economic, social, diplomatic and cultural development of America from the conclusion of Reconstruction to the present.

301. Film as History - 3-0-3 (See FLM 301.)

302. The Classical Age - 3-0-3 Greek and Roman history from about 1800 B.C. to about A.D. 300 incorporating a political, institutional and social perspective. Topics include the development of democracy in Greece changes under Philip and Alexander the Roman Republic and external expansion; the Augustan revolution, the Principate and later Roman empire; and the concept of citizenship in the Greco-Roman worlds. PR: HIS 154 or CI.

310 I. Modern Africa - 3-0-3 History of Africa from 1800 to the present. Emphasis on African culture and political systems, the slave trade, European imperialism, religious change, decolonization, literature and socioeconomic development, as well as in-depth study of three African nations, regions or peoples. PR: HIS 155 or CI.

311. Late Antiquity and the Middle Ages - 3-0-3 Examination of Western Europe from A.D. 300 to 1300 incorporating a political, institutional, social, religious and cultural perspective. Topics include developments in the church; barbarian migrations; the Merovingians and Carolingian world; feudalism and manorialism; Gregorian reforms; and the Crusades and the renaissance of the High Middle Ages. PR: HIS 154 or CI.

312. The European Renaissance and Reformation - 3-0-3 European history from the beginnings of Italian vernacular writing through the Reformation era; topics including the myths surrounding the Renaissance, the Renaissance's impact on European society and the development and spread of reform ideas. PR: HIS 154 or CI.

331. Early Modern Europe - 3-0-3 European history from the beginning of the 17th century to the eve of the French Revolution, with topics including the "crisis" of the 17th century; the Scientific Revolution; the growth of constitutionalism and absolutism; and the Enlightenment. PR: HIS 155 or CI.

332. Nineteenth-Century Europe - 3-0-3 Causes and effects of the political and industrial revolutions from the French Revolution of 1789 to the outbreak of World War I in 1914. Special emphasis on the emergence of modern ideologies (conservatism, nationalism, liberalism, socialism), unification of Italy and Germany, overseas imperialism, modernism, and the impact of political changes and industrialization on Europeans' daily lives. PR: HIS 155 or CI.

333. Twentieth-Century Europe - 3-0-3 Examination of political, social and cultural change in Europe from World War I to the present. Course will focus on the causes and effects of World War I; the competition among liberal democracy, fascism and communism during the interwar years; World War II; the Holocaust; decolonization; the Cold War; and European unification. PR: HIS 155 and 206 or CI.

335. History of England Since 1688 - 3-0-3 Examines the political and social development of England and the rise of the British Empire from the Glorious Revolution through the 20th century. PR: HIS 155 or CI.

347. Military History of the Western World - 3-0-3 Exploration of the military history of the Western world from Paleolithic humans to the 20th century; examination of the relationship between armed forces and society as well as the link between military service and citizenship in diverse cultures such as ancient Rome and the modern United States. PR: HIS 154 or 155 or CI.

349. African-American History - 3-0-3 Interdisciplinary approach to the history of African-American culture. Includes a wide range of readings and discussions, highlighting a number of themes contained in black literature, politics, art, music, philosophy and education.

354 I. History of the Modern Middle East - 3-0-3 History of the Middle East from the 13th century to the present, including discussion of the Mamluks, the Safavids, the Ottomans and independent states. Addresses imperialism and colonialism, WWI and WWII, origins of the Arab-Israeli conflict, independence and nation building, Islamic political movements, socioeconomic development and regional and foreign relations. PR: HIS 155 or CI.

358. Latin American History - 3-0-3 Survey of Latin American history from pre-Hispanic times to the present, with special emphasis on colonization, the struggles for independence, industrialization, nationalism, the rise of

dictators, populism, socialism, democratization, national security states and the region's relationship with the United States.

360. Colonial and Revolutionary America - 3-0-3 Examination of the conflict of cultures on the North American continent in the 17th and 18th centuries; the politics, culture and society of the European colonial settlements; and the causes and consequences of the British colonies' struggle for independence. PR: HIS 205 or CI.

364. The Early American Republic - 3-0-3 Examination of the political, social, economic and cultural development of the United States from the confederation era through the conclusion of the Mexican War. Special attention devoted to the themes of Jeffersonianism and Jacksonianism, the emergence of political parties and responses to the era's Market Revolution. PR: HIS 205 or CI.

371. Civil War and Reconstruction - 3-0-3 Examination of the origins, course and results of the Civil War and the political and social problems of Reconstruction. PR: HIS 205 or 206 or CI.

375 I. U.S. Women's History - 3-0-3 Survey of the history of women in the United States by analyzing the changing images and roles women have held in the family, workplace, politics and society. Attention is paid not only to the common experiences of women, but also to the impact of race, ethnicity and class on women's lives. PR: HIS 205 or 206 or WNS 210 or CI.

385 I. Imperialism, Colonialism, Nationalism - 3-0-3 History of 19th and 20th Century imperialism, colonialism and nationalism in Africa, the Middle East and South Asia. Emphasis on theories of imperialism, European justifications of colonialism, liberation movements, decolonization, and the relationship of art, education, literature, gender and religion to colony-building and nationalist agendas, as well as in-depth study of colonial experiences in three nations. PR: HIS 155 or CI.

432. The Gilded Age and Progressive Era - 3-0-3 Problems and aftermath of the Reconstruction era, evolution of national politics, growth of labor movements, rise and concentration of modern industry, revolt of the agrarians and the Progressive movement. PR: HIS 206 or CI.

433. Recent United States History - 3-0-3 This course covers political, economic and social developments in the United States since the start of World War I, while also dealing with diplomatic and military events. Special attention is given to American participation in the World Wars, culture in the 1920s, the New Deal, the Cold War, the Civil Rights Movement, Vietnam and the resurgence of conservatism. PR: HIS 206 or CI.

438. History of the South - 3-0-3 Social, cultural and political development of the Southern United States from the colonial era to the present. Special emphasis on the issues of Southern race relations and the roots of the contemporary South. PR: HIS 205 and 206 or CI.

445. History of American Diplomacy - 3-0-3 Examination of the economic, ideological and strategic factors that have helped shape American diplomacy from the Revolution to the present. By focusing on the relationship between domestic concerns and foreign affairs, the course will grapple with the question of how and why the United States became involved in territorial and commercial expansion, international wars and revolutions around the world. PR: HIS 205 or 206 or CI.

450. Seminar in History - 3-0-3 In-depth examination of selected topics and themes in history. PR: JS or SS or CI.

491 I. Historiography - 3-0-3 Emphasis on review of the literature of historical inquiry ranging from antiquity to the present and analysis of the methodologies, interpretations, values, evidence and conclusions found in the diversity of historical writings. PR: History major, SS or CI.

496. Academic Internship - 3 to 12 hours Problem-oriented experiences in specific academic projects relating to the individual student's program of study, planned in consultation with the student's advisor. PR: See general provisions for academic internships in this catalog.

498. Directed Study - 1 to 6 hours Supervised reading or opportunity for written research in the field of history when the area of study is highly specialized or the material is not otherwise available in the departmental curriculum. No major may take more than 6 hours of HIS 498. PR: JS or SS and approval of school dean.

HON HONORS PROGRAM

201H. Perennial Questions and Their Modern Manifestations- 3-0-3 Consideration of one or several closely related issues that have occupied the minds of great thinkers in different times and places. Course sections will be taught by instructors from a variety of disciplines who will use several common texts but who will also select others. Students will hear a variety of visiting lecturers and will share other common learning experiences. May be used to satisfy an appropriate general-education requirement.

203 H. Democracy and Its Friendly Critics: Revolution to Post-Modern - 3-0-3 This course will use Tocqueville's *Democracy in America* to illustrate the perpetual issues and problems of democracy and will also draw on works of literature, philosophy, film, and theology to give concrete meaning to these problems as they are manifested in American political and social life.

250 H. Honors Seminar - 1 - 4 hours Addresses a variety of topics from an interdisciplinary approach, depending on the instructor or instructors. May be used to satisfy an appropriate general-education requirement. May be repeated once for credit if different topic covered.

251H. The Oxbridge Lecture Series- 3-0-3 One of three core, interdisciplinary Honors seminars, the subject/disciplinary content of the course will vary. The thematic and structural character of the course will constant. A 'momentous idea or movement' will be defined in its original historical context. Then the intellectual, scientific, and/or cultural impact will be developed with particular emphasis on how this idea or movement affects our contemporary world and lives. This course is designed for first or second year Honors students.

450 H. Honors Thesis I - 3-0-3 Devoted to the preparation of the honors thesis or project. Normally completed during the second semester of the junior year. Grading will be H (Honors), S (Satisfactory) or U (Unsatisfactory). PR: JS or SS and CI; consent of the Honors Program director.

451H. Honors Thesis II - 3-0-3 Continuation and successful completion of the thesis or project designed in HON 450; satisfactory oral presentation and defense of the thesis/project to the Honors Thesis committee. PR: HON 450H.

IDS INTERDISCIPLINARY STUDIES

210. Introduction to Interdisciplinary Studies 1-0-1- Orientation to the interdisciplinary Studies major, including preparation of an IDS major proposal. Development of skills and concepts needed to successfully create and pursue an individualized major. Major elective.

300. Interdisciplinary Studies Seminar - 3-0-3 Examines interdisciplinary theory, research methods and writing through intensive study of variable topics. Students will study the methodologies, interpretative frameworks, values and evidence used in traditional academic disciplines and then learn how to integrate multiple disciplines to understand a historical era, a region, an issue or a problem. PR: Approval of IDS plan.

KIN Kinesiology

(Charter School of Education and Human Sciences)

101 through 180. Physical Activities - 0-2-1

- 101. Weight Training** Weight-training principles.
- 103. Volleyball** Regulation USVBA volleyball.
- 105. Beginning Swimming** Offered for weak or non-swimmers; Red Cross standards.
- 107. Bowling** Fundamental bowling for the inexperienced player. Fee.
- 108. Mountain Biking** An introduction to mountain-biking techniques, products, repair tips and actual off-road cycling. Open to riders of all skill and fitness levels.
- 109. Badminton** Fundamental badminton for the inexperienced player.
- 110. Rock Climbing** Basic instruction and experiences in rappelling and climbing. Fee.
- 111. Tennis** Fundamentals of tennis for the inexperienced player. Not available to varsity players.
- 113. Racquetball** Fundamentals of racquetball for the inexperienced player. Fee.
- 114. Challenge Ropes Course for Freshmen** Team- and personal-confidence building course that promotes critical thinking, camaraderie and appropriate risk taking. Focus on developing a plan for enhancing student success and leadership skills. Fee. Weekend schedule.
- 115. Challenge Ropes Course for Sophomores** Designed to encourage confidence building, problem solving and effective decision making through the use of adventure-based activities on the challenge course that support the goals of the sophomore year experience. PR: Sophomore status.
- 116. Scuba** A basic course which meets minimum standards. No certification is earned. Fee.
- 117. Challenge Ropes Course for Juniors** Designed to encourage confidence building, problem solving, goal setting and risk taking through the use of adventure-based activities on a challenge course that support the junior year experience. PR: Junior status.
- 118. Challenge Ropes Course for Seniors** Designed to develop a sense of confidence for effective goal setting and decision making in a challenge course environment. Promote a state of preparedness for beyond the senior year to confront challenges and take risks in a supportive adventure environment. Weekend schedule. Fee. PR: Senior status.
- 120. Soccer** Team experiences and skill development. Not available to varsity players.
- 124. Golf** Fundamentals and beginning play. Fee. Not available to varsity players.
- 125. Intermediate Swimming** Open to swimmers above the beginner level.
- *126. Introduction to Lifeguarding** A prerequisite to Lifeguarding (HPE 136*), this course provides an understanding of the basic knowledge and skills needed to advance into a lifeguarding program.
- 127. Introduction to Canoeing** Paddling techniques and trip-management skills for all forms of canoeing options. Full weekend canoe and camping trip. Fee.
- 128. Introduction to Whitewater Rafting** Develop basic paddling techniques and trip-management skills for whitewater rafting prior to full-weekend whitewater rafting trip. Fee.
- 129. Introduction to Kayaking** Develop fundamental kayaking skills utilizing indoor pool prior to open-water kayak trip. History, equipment, basic paddle techniques and trip planning will be covered. Weekend schedule. Fee.

131. Introduction to Half Marathon Running Activity-based course emphasizing fitness acquisition through a personalized training program for the half marathon.

132. Basketball Fundamentals of the game for students with no playing experience in an organized league.

134. Challenge Ropes Course for On-campus Groups A custom-designed confidence and team building experience for intact on-campus groups. The schedule and challenge elements and activities are matched to the goals of the group and individuals in specific on-campus groups such as clubs, athletic teams, residence halls, student-work teams, etc. Fulfills General Education requirement (activity course) PR: Consent of Instructor. \$75 fee.

***136. Lifeguarding** A follow-up course to HPE 126* that develops personal and lifeguarding skills and knowledge necessary to advancing into the profession of lifeguarding. PR: HPE 126

*Certification is available if both KIN 126 and 136 are taken during the same semester and all standards are successfully completed.

140. Social Dance The night-club two-step; swing dances including the shag and West Coast swing; the mambo; and the hustle will be taught.

144. Dance Improvisation Introduction to the fundamentals of dance improvisation, focusing on increasing the student's range of movement through individual, partner and group-movement activities.

146. Lacrosse This course will introduce the basic rules, techniques, strategies and systems of lacrosse play.

151. Introduction to Cave Leadership Designed to educate students about cave travel, risk management, equipment selection and the basic understanding of ecology and geology related to the cave environment. A focus will be on the need to practice and teach "Leave No Trace" leadership techniques applied to the fragile underground wilderness. Fee required. Weekend schedule and off-site sessions required.

155. Martial Arts Beginning Skill development in one of the martial arts including but not limited to taekwondo, karate, and judo.

160. Yoga Introduction to the fundamentals of Hatha Yoga through the practice of exercises (asanas), breathing and relaxation techniques.

161. Yoga II A continued exploration of Hatha Yoga through the practice of traditional poses (asanas), breathing techniques (pranayama), and relaxation. PR: HPE 160 or CI.

165. Basic Challenge-Course Instructor National training curriculum is available to individuals with prior challenge-course experience who want to develop the basic skills needed to effectively lead team-building and low-element challenge course activities. Basic knot-tying and belaying techniques learned. Special schedule. Fee. PR: HPE 114, 117 or 118 or CI.

166. Advanced Challenge-Course Instructor Develop skills and techniques to manage advanced challenge-course programs. Course safety, risk management, element set-up and rescues will be focused upon to meet national challenge-course training standards. Involves weekend hours. Fee. PR: HPE 165.

170. Wilderness First Aid Designed to provide lay rescuers with additional knowledge and information about how to respond to emergencies in the wilderness, campus, rural and work settings. Required of individuals in settings where EMS is 30 or more minutes away from site. Special schedule. Fee. PR: Prior first-aid and CPR certification required.

171. Introduction to Backpacking Fundamental skills necessary for low-impact hiking and safe camping procedures. Knowledge of effective selection of equipment, clothing, routes and sites. Develop appreciation of wilderness and environmental awareness as a lifelong activity. Trip required. Fee.

- 172. Introduction to Orienteering** Combine skills of land navigation and fitness (walking/running) while learning basics of staying found in the outdoors.
- 175. Fitness Walk/Jog** Activity-based course emphasizing fitness acquisition through a personalized program of walking and/or jogging.
- 176. Disc Golf** The course is designed to educate the students in the basic rules, techniques, throwing options and strategies of disc golf, a sport well suited for a lifetime leisure activity.
- 177. Softball for Women** The course is designed to teach *female* students basic rules and fundamentals of softball. These fundamentals include catching, hitting, throwing and defense with an emphasis on fast pitch softball.
- 180. Introduction to Snow Skiing** Introduces the basic skills necessary for snow skiing. All types of snow skiing will be introduced. Physical conditioning will be emphasized prior to an off-campus multiple overnight experience. Fee.
- 190. Physical Activity Topics** Offered periodically to address activities of interest not currently part of the KIN curriculum. Activities will only be offered twice in this topics course. Counts as an activity course for general education. Repeatable for credit with different topics.
- 201. Introduction to Exercise Science 1-0-1** This course is a survey of the discipline of exercise science. The course introduces students to the basic characteristics of the professions generally pursued by those graduating with a degree in exercise science, and provides information and resources that can be used for making early academic and career decisions.
- 220. First Aid - 2-0-1** Policies and procedures for emergencies. American Red Cross certification earned.
- 221. Survey of Wellness - 0-2-1** Comprehensive experience relating to wellness topics including nutrition, healthy behaviors and self-testing. Use of internet websites will individualize course outcomes.
- 222. College Health Topics - 2-0-1** Survey of health problems on college level with emphasis on drug education and sex education.
- 223. Self-Defense for Women I - 1-0-1** Focus on prevention of violent crimes directed toward women, with special emphasis given to prevention of sexual assault (stranger and acquaintance) through development of nonverbal communication skills, assertiveness skills, stranger-danger awareness and self-assessment of strengths and weaknesses. To be completed during first seven weeks of term. CR: HPE 224.
- 224. Self-Defense for Women II - 2-0-1** Develops awareness of relationship violence and basic car care. Introduction to Model Mugging and role-playing scenarios utilizing self-defense skills. Fee. To be completed during second seven weeks of term. May be used as an activity course. Fee. CR: HPE 223.
- 225. Personal Safety 0-2-1** This class focuses on the prevention and management of aggressive behaviors found in the workplace. Special emphasis is given to (but limited to) environments where conflict and aggression may arise from individuals being served in a professional setting such as the classroom, counseling, hospital, social service, or criminal justice. Techniques such as non-verbal communication, verbal communication, crisis intervention, assertiveness skills, personal awareness and self-assessment are introduced and practiced.
- 256. History and Principles of Health, Physical Education and Athletics - 3-0-3** History background, general scope, principles, interpretations and objectives of health, physical education and recreation relationship to education as a whole.
- 258. Coaching Theory and Practice I - 1-2-3** Develop an awareness of and experience in three sports offered in private and public schools. Each student completing the course will be expected to develop a coaching portfolio.

259. HPE Coaching Theory and Practice II - 1-2-3 Emphasis will be to develop an awareness of and experience in three sports not covered in KIN 258. Students will be expected to develop a coaching portfolio.

260. Athletic Coaching Theories and Principles - 3-0-3 Coaching philosophies, theories and principles: athletic-team planning, problems, safety, liability and promotions. Coaching application experiences.

266. Functional Anatomy and Physiology 3-2-4 Examination of the basic biological concepts of the structure and function of the human body. Cardiovascular, respiratory, nervous, digestive, muscular, skeletal, and endocrine systems will be studied. Special topics may include the disease processes that affect the human body. Required for health and physical education majors. Will not satisfy a General Education lab science.

275. Water Safety Instructor - 3-1-3 Skill development and techniques for aquatic-instruction program and aquatic-facility management, with focus on leadership development and program management in an aquatic environment. Successful completion of standards results in American Red Cross Water Safety Instructor certification. Fee. PR: basic swimming competency as assessed by pretest.

301. Techniques of Teaching Team and Individual Sports - 1-2-3 Organization and teaching of motor skills in a variety of sports. Practicum.

305. Curriculum and Methods in Physical Education - 3-2-4 Appropriate organizational structures for P-12 physical education programs. Sources and structures of curriculum, varying patterns of planning and implementation. The use of a variety of instructional methods and multiple assessment strategies for regular and diverse populations including Limited English Proficiency students. Field experience required. PR: EDU 102 and 206, KIN 330. Admittance to teacher-education program.

306. Survey of Dance - 3-0-3 This course is designed to acquaint students with dance skills as they relate to ballroom dance, creative dance and folk and country-western dance. Partnering skills, cooperative group work and teaching techniques will be emphasized. Practicum required.

308. Children's Creative Dance - 3-0-3 Study of the principles and techniques of teaching creative dance to children, focusing on the many elements of dance as a process as well as a performance experience. Follows National Standards for dance, while presenting students with methods of integrating movement and dance into the academic curriculum. Practicum required.

309. Physical Education for Children and Youth with Special Needs - 3-1-4 Introduction to the identification and education children and youth with special educational needs. Specially designed instruction and adaptations will address students with developmental disabilities, severe learning disabilities, physical and neurological disabilities, emotional/behavioral, sensory disabilities and those who are academically or intellectually gifted. Forty-five hours of field experience in P-12 schools or community agencies or state facilities required. PR: PSY 101 or PSY 103.

310. Developmentally Appropriate Physical Education for P-6 - 3-0-3 Develop knowledge of developmentally appropriate physical-education activities for preschool to upper-elementary-level children. Gain understanding of assessment of fundamental and sport-related skills for diverse populations including Limited English Proficiency students. PR: EDU 102 and 206, KIN 330, Admittance to teacher-education program.

311 I. Biomechanics - 3-2-4 Fundamentals of biomechanics and kinematics to human movement. In-depth exploration of the integration of biomechanical principles and skeletal anatomy as it pertains to performance improvement and injury prevention. Fee. PR: KIN 266 or BIO 206 and 207.

312 I. Health for the Teacher - 3-0-3 Issues and facts of health problems facing school populations; insight into health topics relating directly to career clients of educators in health and physical education in the schools and society.

313. Community Health - 3-0-3 Community-related health issues and concepts for prospective health, physical-education and wellness personnel. Facts and topics relating to the healthful lifestyles sought by concerned

citizens in modern society.

314. Adventure Sports - 1-2-3 Survey of outdoor activities including backpacking, rappelling, rock climbing, cycling, paddling and more. Practical experiences requiring out-of-class time. Fee.

323. Experiential-Education Leadership Development - 2-2-3 (See PSY 323.) Learning theory, group dynamics, team-building and leadership techniques for experiential-education challenge-course adventure activities, initiatives and games. Exploration of the use of experiential-education activities in organizations, therapeutic settings and the classroom. Fee. PR: PSY 101 or 103.

330. Motor-Learning Behavior - 3-0-3 Examines the motor-learning factors and principles of motor development that influence the acquisition of motor skills and how these factors interact in the developmental process. Principles and concepts will be applied in class and field activities.

380. Nutrition - 3-0-3 The study of contemporary nutrition is a critical topic for students in exercise science and related fields. The course will include essential science foundation needed to comprehend topics in nutrition. The basic nutrition, digestion and how the body functions using nutrients from food, nutrition for all ages, diets, food allergies and intolerant, and use of scientific studies to support new discoveries in nutrition.

404. Sports Administration - 3-0-3 Problems of the supervisor and administrator in the modern program of physical education and athletics; suggested methods of solving problems such as budgets and facilities.

411. Exercise Physiology - 3-2-4 Survey course in exercise physiology; overview of the acute and chronic responses to exercise, with particular attention to understanding muscle bioenergetics and metabolism as well as cardiopulmonary responses to exercise. Fee. PR: KIN 266 or BIO 206 and 207.

413. Exercise Assessment & Prescription- 3-2-4 A comprehensive evaluation of the knowledge and skills necessary to administer health-related fitness assessments. Focuses on laboratory procedures, testing protocols and how to develop and implement an appropriate exercise prescription for adults. Required for the major. PR: KIN 411.

415. Olympic Sport - 3-0-3 Analysis and study of the Olympic movement to develop appreciation for the games.

430. Sports in Contemporary Society - 3-0-3 Examines the role of sport within the social and cultural context of contemporary society. Students will explore the relationships of sport to societal spheres such as education, gender, media, politics, race/ethnicity, religion and violence.

450. Expedition Leadership- 2-2-3 A theoretical and experiential examination of the use of the expeditions for enhancing recreation, education, personal and professional development. Technical competency, planning and implementation, facilitation strategies, risk management procedures, equipment management, personnel administration and program design are addressed. Fee required. Off-site expedition “intensive” experience required. PR: KIN 314.

496. Academic Internship - 3-9 hours variable Problem-oriented experiences on specific academic projects relating to the individual student's program of study, planned in consultation with the student's advisor. PR: KIN 201.

498. Directed Study - 1 to 3 hours Opportunity for students to work with problems (under direction of staff members) in areas of special interest not otherwise available in the departmental curriculum. No major may take more than five hours of KIN 498. PR: last-semester junior or senior majors and approval of school dean.

LCS LATIN AMERICAN AND CARIBBEAN STUDIES

(Evans School of Humanities, Arts and Social Sciences)

301. People of Latin America & the Caribbean - 3-0-3 An interdisciplinary introduction to the Latin American and Caribbean region. Exploration of significant differences and commonalities among various lands and peoples of the region. Themes include history, culture, ecology, politics, civil society, arts, and emigration. PR: ANT 200 or SOC 200 or CI.

310. Latinos in the United States- 3-0-3 (See SOC 310.) Examines the history of Latino immigration to the U.S. and explores the contemporary nature and status of Latino populations in various parts of the country. Involves community-based research on Latino communities in Georgia.

344. Special Topics in Latin American and Caribbean Studies -3-0-3 Concentrated study of a special topic in Latin American and Caribbean Studies. Repeatable-no limit. PR: LCS 301 or CI.

350. Costa Rican Culture- 3-0-3 This course is taught as part of the Berry College/Fundacion Progreso Guanacaste summer program in Costa Rica. Its disciplinary focus will vary depending on the expertise of the on-site professor. However, the course may explore cultural, social, political, historical, and linguistic elements of Costa Rica. This course may be cross-listed with another course taught in the professor's discipline. Minor elective.

450. Seminar in Latin American and Caribbean Studies - 3-0-3 This course will function as a capstone in which students will address major issues and cultural productions in Latin America and the Caribbean. Specific course content will depend upon the area of specialization of the instructor as the course will rotate between different departments. Additionally, students will choose a specific topic of interest to them and produce a major research project with the guidance of the course instructor. PR: LCS certificate with at least 12 hours completed or CI.

496. Academic Internship - 3 to 6 hours Problem-oriented experiences in specific academic projects relating to Latin America, the Caribbean or Latino-Caribbean populations in the United States. PR: See general requirements for academic internships in the catalog.

498. Directed Study - 1 to 3 hours Supervised reading or written research on Latin America and the Caribbean when the desired focus is highly specialized or the material is not otherwise available in existing curriculum. PR: JS or SS and approval of dean.

MAT MATHEMATICS

(School of Mathematical and Natural Sciences)

105. Nature of Mathematics - 3-0-3 An exploration of mathematical ideas with an emphasis on conceptual understanding and effective thinking. Topics may include, but are not limited to, elementary number theory, infinity, mathematical aesthetics, chaos and chance.

111. Elementary Statistics - 3-0-3 Descriptive statistics, probability, random variables, probability distributions, estimation, hypothesis testing, correlation and simple linear regression. Intended to be a first course in statistics for a variety of disciplines.

120. Precalculus - 4-0-4 Designed to prepare students for the calculus. Polynomial and rational functions, theory of equations, logarithmic and exponential functions, trigonometric functions.

145. Applied Calculus - 3-0-3 Mathematical tools using continuous and basic calculus techniques. Topics to include continuous functions, polynomials, rational functions, limits, instantaneous rates of change (derivatives) and continuous summations (integrals); applications to include area and volume calculations, related rates, minimization and maximization.

201. Calculus I - 4-0-4 An introduction to calculus including the following topics: functions; limits; continuity; derivatives and their applications; introduction to integrals; fundamental theorem of calculus; applications of the

definite integral, trigonometric, logarithmic and exponential functions; and beginning integration techniques. PR: Grade of C or better in MAT 120 or CI.

202. Calculus II - 4-0-4 Continuation from MAT 201, including the following topics: additional integration techniques and further applications, indeterminate forms, improper integrals, infinite series, topics in analytical geometry, multidimensional calculus including vectors, partial derivatives, multiple integrals and applications. PR: Grade of C or better in MAT 201.

203. Multivariable Calculus - 4-0-4 Continuation from MAT 201. Multivariable calculus, including functions of several variables, vector-valued functions and applications, gradients, vector fields, line and surface integrals, Green's theorem and Stokes' theorem. PR: Grade of C or better in MAT 201.

219. Discrete Structures - 3-0-3 (See CSC 219.) Elementary logic, sets, relations, functions, sequences, linear systems, introduction to graphs and trees, counting principles and recurrence.

220. Mathematics for Teachers P-8 - 3-0-3 Development of numeration systems, number sense and number relationships, concepts of whole-number and rational-number operations, number theory, estimation, statistics and probability. Modeling of effective mathematical pedagogy for children, emphasizing the development of patterns and relationships and the view of mathematics as solving problems, communicating, reasoning and making connections. PR: majors in early childhood or middle-grades education and sophomore standing or CI.

303. Linear Algebra - 3-0-3 Vector spaces, linear transformations, matrices and solution of systems of linear equations using matrices. PR: MAT 201 or CI.

304. Differential Equations - 3-0-3 Elementary study of methods, nature and existence of solutions to first order, linear, higher order and systems of ordinary differential equations, including LaPlace -transformations, solutions in power series and oscillation theory. Applications considered. PR: MAT 202 or CI.

305 I. Proof Structures and Techniques - 3-0-3 Introduction to various types of mathematical proofs and techniques used to develop them, including elementary symbolic logic, predicates, quantifiers, mathematical induction, direct proofs and constructive proofs. PR: MAT 201.

311. Probability and Statistics - 3-0-3 Probability, discrete and continuous random variables. Distributions covered include binomial, hypergeometric, Poisson, uniform, normal and gamma. Moments and moment-generating functions of random variables. Elementary bivariate and multivariate distributions are introduced. PR: MAT 202 or CI.

312 I. Modern Geometry - 3-0-3 Euclidean geometry from an advanced standpoint requiring problem solving and rigor. Introduction to non-Euclidean geometries. Development of geometries from both an axiomatic mathematical system standpoint and an investigative viewpoint, with the use of appropriate manipulatives and technology. Includes a project on an enrichment topic. PR: MAT 305 or CI.

319. Combinatorial Mathematics - 3-0-3 (See CSC 319.)

321. Mathematical Inquiry in Early Childhood Education - 3-0-3 Geometry and measurement; explorations of patterns, functions and algebraic concepts within the context of scientific investigation. Mathematics pedagogy, including readings, discussion and in-class simulated teachings. Field experience required. Cannot also receive credit for 322. PR: MAT 220 and admittance to teacher education program.

322. Mathematical Inquiry in the Middle Grades - 3-0-3 Geometry and measurement; explorations of patterns, functions and algebraic concepts. Mathematics pedagogy, including readings, discussion and in-class simulated teachings. Field experience required. PR: MAT 220 and admittance to teacher education program. CR: EDU 330.

324. Geometry for the Middle Grades - 3-0-3 A postulational development of Euclidean geometry using a variety of approaches: Informal, Formal, Measurement, Coordinate and Transformation. This course does not

apply to a major or minor in mathematics or mathematics education. PR: MAT 220.

340. Technology-Enhanced Instruction in Mathematics 5-12 - 3-0-3 Mathematical investigations appropriate to the middle grades and secondary school using various technology tools. Focus on developing effective technology-enhanced mathematics instruction in keeping with current reform standards. PR: MAT 145 or MAT 201 or CI and Junior/Senior standing.

400. Senior Seminar in Mathematics Education - 1-0-1 Synthesis of the mathematical competencies required for certification in Georgia to teach mathematics in grades 6-12. PR: SS.

401. Mathematics Minor Seminar - 1-0-1 A seminar for juniors and seniors who are minoring in mathematics. Topics of discussion will include: a selection of seminal theorems and their historical and/or practical significance; a survey of significant open problems that are guiding current mathematical research; and the use of Calculus and combinatorial mathematics to study a variety of phenomena through mathematical modeling. PR: MAT 201, MAT 219, JR or SR standing, 13 hours of MAT courses.

403 I. Introduction to Abstract Algebra - 3-0-3 Fundamental structures of algebra including sets, groups, rings, integral domains and fields. PR: MAT 303 and 305WI.

414. Real Analysis - 3-0-3 Sequences, series, metric spaces, completeness, connectedness and compactness. PR: MAT 202 and 305WI.

417. Complex Analysis - 3-0-3 Introduction to complex numbers, analytic functions, elementary functions of complex variables and derivatives and integrals of functions of complex variables. PR: MAT 303 and 305WI.

420. Advanced Topics in Mathematics - 3-0-3 An advanced mathematical topic to be chosen by the instructor. Students may repeat this course provided the topic is different during each term. PR: MAT 305I and CI.

490. Mathematics Seminar - 1-0-1 Mathematics literature and research reports by faculty, students and visiting speakers. Each student is required to investigate a topic in mathematics and perform an oral presentation. For junior and senior mathematics and math education majors only. May be repeated once for credit. PR: MAT 305WI, JR or SR standing and CI.

496. Academic Internship - 3 to 9 hours Problem-oriented experiences on specific academic projects relating to the individual student's program of study, planned in consultation with the student's advisor. PR: See general provisions for academic internships in this catalog.

498. Directed Study - 1 to 3 hours Supervised independent study in mathematics when the area of study is specialized or not otherwise available. No student may apply more than three hours of credit for MAT 498 toward the requirements for the major. Last-semester JS or SS and approval of school dean.

MGT MANAGEMENT

(Campbell School of Business)

301. Principles of Management - 3-0-3 Survey of various fields of business management, including basic topics in business strategy, operations, human resources and organizational behavior. Students will have firsthand organizational experience in this course. PR: 45 credits of CI.

302 I. Organizational Behavior - 3-0-3 Concepts and theories of motivation, organizational structure, leadership, team building and group activities in modern organizational settings. Emphasis is on experiential learning. PR: MGT 301.

340. Introduction to Entrepreneurship - 3-0-3 Concepts of entrepreneurship, creation and operation of a small business. Case studies and presentations by entrepreneurs are emphasized. Development of business plans, marketing strategies, finance, personnel practices and operations in small businesses. PR: JS.

345. Management of Human Resources - 3-0-3 Survey of Human Resources Management and basic concepts of Human Resource Planning, job analysis, staffing, development, compensation, employee/labor relations, health and safety, industrial-employee union representation and impact of current HR laws. PR: MGT 301.

415. Cross-Cultural Management - 3-0-3 Impact of cultural values on management functions and processes. Emphasis on verbal and non verbal communication skills, cultural values, concepts of management, interpersonal and intergroup relationships, differences in temporal conceptions, culture shock, labor relations, and skills needed to conduct business globally. PR: MGT 301.

440. Advanced Entrepreneurship - 3-0-3 This course is an advanced, integrative and experiential approach to entrepreneurship that builds on MGT340 Intro to Entrepreneurship. Its main focus will be in-depth exposure to the process of starting and scaling an enterprise from an idea and business plan into a company. In our class discussions we will examine and explore the entrepreneurial process and analyze business decisions that entrepreneurs face. MGT340 or CI.

453. Operations Management - 3-0-3 Broad introduction to operations management-the design, operation, control and continuous improvement of productive systems in service and manufacturing organizations. Multiple learning methods employed to explore and understand, primarily from a managerial perspective, the nature of the operations function and its role in organization performance. PR: BUS 211 and MGT 301.

460. Special Topics in Management - 3-0-3 Varied content provides an opportunity for faculty and students to accommodate their interests. May be repeated once for credit as topics vary; maximum of six hours may be counted toward a degree program. PR: CI.

496. Academic Internship - 3 hours Student will work in a professional setting under a faculty member who provides guidance and works with the student and on-site work supervisor to integrate work experiences and the student's educational and professional goals. Development of a learning contract. PR: See general requirements for academic internships in this catalog; CI.

498. Directed Study in Management - 3-0-3 In-depth study in the management discipline in an individualized program designed by the student and the faculty sponsor. Alternatively, independent study may involve working with an individual faculty member on a research project in which students have the opportunity to see firsthand how new knowledge and understanding are developed in the business disciplines. To pursue independent study, students develop a learning contract with the faculty sponsor and will typically produce a significant term paper or project. At most, six hours of MGT 498 may be counted toward a degree program. PR: JS or SS and approval of school dean; CI.

MKT MARKETING

(Campbell School of Business)

301. Principles of Marketing - 3-0-3 Broad survey of marketing as an integral activity in business and nonprofit organizations. Examination and analysis of marketing activities from the planning level to the consumption level, covering topics of consumer behavior, target markets, adaptation of products to markets, channels of distribution, pricing policy and marketing communication. PR: ECO 110 and 45 credits or CI.

322. Consumer Behavior - 3-0-3 Development of an understanding of consumption behaviors and their determinants. Examination of research and theory from the social sciences for their relevance to understanding consumer behavior and for their utility in shaping effective marketing decisions, with the aim of understanding peoples' consumption-related behaviors and developing and evaluating marketing strategies and influencing consumer behavior. Integration of psychological, sociological and anthropological perspectives on the study of consumption. PR: MKT 301.

323 I. Marketing Research and Analysis - 3-0-3 Introduction of the methods used in marketing research to generate information for marketing decision making; broad survey of qualitative and quantitative market-research techniques, with focus on data collection, analysis and interpretations. PR: MKT 301 and MAT 111 or

311.

326. Personal Selling - 3-0-3 Examination of the complex process involving buyers and sellers of products and services. Concentration on developing the sales skills required for creating effective exchanges and managing long-term relationships. PR: MKT 301.

327. Qualitative Research Methods - 3-0-3 Combination of lectures and assignments providing students with a working knowledge of the concepts and methods of qualitative research, including focus groups, interviews and projective techniques. Student experience in application of qualitative-research concepts and methods to marketing problems through participation in all states of a qualitative research project including data collection, analysis, interpretation and report writing. PR: JS.

423. New Product Development- 3-0-3 Investigation and analysis of the new-product-development process, the management of a product through its life cycle. New-product development, pricing strategy, brand management, and product-deletion decisions are the focal topics of the course.

424. Marketing Communications - 3-0-3 An integrated-marketing communications approach to the study of the many ways in which profit and nonprofit organizations communicate with their publics. Emphasis is placed on understanding the synergies between various communications tools (e.g., public relations, sales promotions, advertising, event sponsorship). PR: MKT 301.

425. International Marketing - 3-0-3 Introduction to international marketing theory and research with practical examples of solutions to complex international marketing problems. Focus on the political, legal, economic and cultural considerations inherent in international businesses and their relations to market decision making. PR: MKT 301.

426. Experiential Marketing: Marketing Sports and the Arts - 3-0-3 Examination of marketing practices in industries that focus primarily on consuming an experience, with specific focus on sports and the performing arts. Covers services marketing, experiential consumption, consumer attraction to sports and marketing strategies for sports organizations, consumer attraction to the performing arts and marketing strategies for arts organizations, sponsorship and licensing. Understanding sponsorship as a communication tool. Students will prepare and evaluate sponsorship proposals through projects with actual organizations. PR: MKT 301.

427. E-Commerce Marketing Strategy - 3-0-3 Examination of how companies use the Internet to increase competitiveness and to create market value. Examination of some of the social and cultural ramifications of the e-commerce revolution and its impact on marketing strategy in the future. Understanding of how firms decide to use this new resource to develop new products and services, to communicate more effectively with the organization's stakeholders, to expand into new markets and to add value to current practices. PR: MKT 301.

428. Advanced Marketing Research - 3-0-3 This course is an advanced, applied course in research methodology. Students will be involved in designing programmatic research, including collecting and analyzing quantitative or qualitative data and preparing a written manuscript. Students will have a firsthand experience by executing and completing a research project. PR: MKT 323 or 327.

460. Special Topics in Marketing - 3-0-3 Varied content provides an opportunity for faculty and students to accommodate their interests. May be repeated once for credit as topics vary; maximum of six hours may be counted toward a degree program. PR: CI.

496. Academic Internship - 3 hours Student will work in a professional setting under a faculty member who provides guidance and works with the student and on-site work supervisor to integrate work experiences and the student's educational and professional goals. Development of a learning contract. PR: See general requirements for academic internships in this catalog; CI.

498. Directed Study in Marketing - 3-0-3 In-depth study in the marketing discipline in an individualized program designed by the student and the faculty sponsor. Alternatively, independent study may involve working with an individual faculty member on a research project in which students have the opportunity to see firsthand

how new knowledge and understanding are developed in the business disciplines. To pursue independent study, students develop a learning contract with the faculty sponsor and will typically produce a significant term paper or project. At most, six hours of MKT 498 may be counted toward a degree program. PR: JS or SS and approval of school dean; CI.

499. Marketing Strategy - 3-0-3 This is an integrative course which serves as a capstone for the marketing degree. This course emphasizes developing and applying strategic principles to marketing planning, including customer analysis, market segmentation, product policy, forecasting, pricing, distribution, and integrated marketing communication. The focus is on strategic decision-making. This course includes a firsthand experience using a live case format and the development of a detailed marketing plan. PR: MKT 322 and 323.

MUS MUSIC

(Evans School of Humanities, Arts and Social Sciences)

051. Applied Music Lesson 1-0-1- Applies lesson in woodwind, brass, percussion, piano, strings, and voice. Half hour lesson per week with independent practice hours each week. Music fee. Required for music minor.

096-097. Beginning Piano - 2-0-1 Course for non-music majors designed to develop basic keyboard skills. Includes solo and ensemble literature from traditional style periods and basic skills encompassing reading, keyboard theory, harmonization, transposition, improvisation and scales. Taught in a class setting.

101. Elementary Theory I - 3-0-3 Fundamental training in scales, keys, notation, meter, rhythm, chord structures, part writing and application to the keyboard. Elementary sight singing and ear training.

102. Elementary Theory II 3-0-3- Continuation of MUS 101. PR: MUS 101 or CI.

108. Improvisation - 1-1-1 Beginning to advanced musical improvisation in various styles including jazz, fusion, bebop, blues and others. Uses prerecorded and computer-assisted rhythm sections. Offered to keyboardists and instrumentalists. Taught in a class setting. PR: CI.

110. Opera Workshop - 0-2-1 Rehearsal and performance of scenes from opera literature.

111. Concert Choir - 3-0-1 This singing group offers qualified students an opportunity to become acquainted with a broad variety of choral music. In addition to presenting on-campus concerts each semester, the choir tours biennially. No audition requirements. May be repeated for credit.

111a. Concert Choir - 3-0-0 Zero-credit option for Concert Choir.

115. Women's Ensemble - 3-0-1 Women's performance ensemble dedicated to the rehearsal, study and performance of women's choral literature from the Medieval era to the 21st century. Open by audition to any woman, freshmen through seniors. May be repeated for credit.

115a. Women's Ensemble - 3-0-0 Zero-credit option for Women's Ensemble.

121. Berry Singers - 3-0-1 This chamber vocal ensemble of mixed voices is open to all college students who can qualify by audition. The Berry Singers limits participation to 24 voices and presents a variety of examples of choral art best suited to small ensemble. May be repeated for credit.

121a. Berry Singers - 3-0-0 Zero-credit option for Berry Singers.

131. Wind Ensemble/Orchestra - 3-0-1 Open to qualified students by audition. These groups perform literature from all style periods and present concerts on and off campus. May be repeated for credit.

131a. Wind Ensemble/Orchestra - 3-0-0 Zero-credit option for Symphonic Band/Orchestra.

132. Chamber Music - 2-0-1 Study and performance of literature of all periods for various woodwind, percussion and brass-ensemble combinations.

132a. Chamber Music - 2-0-0 Zero-credit option for Chamber Music.

141. Jazz Ensemble - 3-0-1 This ensemble consists of full sections of trumpets, trombones, saxophones, rhythm-section instruments and other instruments as needed. The group performs contemporary jazz/rock/pop music of all styles. Membership is open to all college students.

141a. Jazz Ensemble - 3-0-0 Zero-credit option for Jazz Ensemble.

151. Applied Music Lesson 1-0-1- Applied lesson in woodwind, brass, percussion, piano, strings, and voice. One hour less per week with independent practice hours each week. Freshman level lesson may be repeated once. Music fee. Required for music major.

190. Instrumental Training - 2-0-2 General introduction to the basic techniques of performance for string, brass, woodwind, percussion and fretted instruments for non-instrumentalists. Not applicable to the music major's degree for instrumentalists majoring in music education. Includes pedagogical techniques and proficiency in each area.

191. String Methods - 2-0-2 Class instruction in string instruments.

192. Woodwind Methods - 2-0-2 Class instruction in woodwind instruments.

193. Brass Methods - 2-0-2 Class instruction in brass instruments.

194. Percussion Methods - 2-0-2 Class instruction in percussion instruments.

195. Voice Class - 1-0-1 Class instruction in voice for non-vocal majors.

196-197. Class Piano - 2-0-1 Sequence of courses in functional use of piano employing group and individual techniques designed to develop keyboard proficiency for music majors. Successful completion satisfies piano-proficiency requirements. Basic keyboard skills include scales, arpeggios, harmonization, transposition and improvisation.

201. Intermediate Theory I - 3-0-3 Continuation of MUS 101-102. Triads, seventh chords, ninth chords, non-harmonic tones, chromatic alteration. Diatonic and chromatic modulation . A study of 18th-century contrapuntal writing and 20th-century compositional techniques. Ear training and sight singing. PR: MUS 102 or CI.

202. Intermediate Theory II 3-0-3- Continuation of MUS 201. PR: MUS 201 or CI.

215. Appreciation of Music - 3-0-3 Understanding of musical style, structure, media and forms, explained and illustrated by performances and recordings. Open to students in all departments. May not be counted toward a major or minor in music.

228. Topics in Music - 1 to 3 hours Special topics in music offered on demand for areas of study not covered by the regular music curriculum.

247. Introduction to Music History and Related Literature - 2-0-2 Historical survey of music history and literature with emphasis on representative forms, styles and composers. The course begins with the Medieval period and goes to the present. Required for music minors.

251. Applied Music Lesson 1-0-1- Applied lesson in woodwind, brass, percussion, piano, strings, and voice. One hour lesson per week with independent practice hour each week. Sophomore music lesson may be repeated once. Music fee. Required for music major.

296-97. Class Piano - 2-0-1 Continuation of 196-197. PR: MUS 196-197.

300. Seminar in Composition - 2-0-1 Developing compositional skill, extending from creative-style explorations to synthesis of a personal style expressed in a complete work. May be repeated for credit. PR: CI.

301. Form and Analysis - 2-0-2 Theory and analysis of musical forms, including binary, ternary, sonata, rondo and dance forms. Harmonic analysis of representative works. PR: MUS 101-102.

302. Composition and Arranging - 3-0-3 Developing compositional skills with original compositions in simpler forms, including contemporary materials and techniques of musical composition. Approach to arranging through knowledge of timbre and range of voices and instruments; opportunity to arrange for various media. Laboratory experiences with MIDI technology including notation and sequencing of class assignments. PR: MUS 101-102.

305. Music Curriculum - 2-2-3 Examination of the fundamentals of music curricula for preschool through secondary education including content, style and technique for music teaching; includes school-based field experience. PR: Admittance to teacher-education program.

320. Musical Theatre - 3-0-3 (See THE 320.) Appreciation of musical theatre throughout history with an emphasis on major influences and forms.

328-329. Conducting - 2-0-2 Development of skills of conducting and score reading. Special attention to individual problems, including preparation of school groups for concert and contest. PR: MUS 101-102.

346. Women in Music - 3-0-3 An introduction to women making music from the Middle Ages to the present. Topics include composers and their music, performers, iconography and ramifications of gender in vocal and instrumental genres. Emphasis on historical context and reception.

347. Literature and History of Music I - 2-0-2 The history of Western music from early Greek and Hebrew music through the Renaissance with an effort to pinpoint divergent idioms. PR: MUS 101-102.

348 I. Literature and History of Music II - 3-0-3 The history of Western music from the beginning of the baroque period through the Classic period. PR: MUS 102 or CI

349 I Literature and History of Music III 3-0-3 The history of western music from the beginning of the Romantic period to the present day. PR: MUS 102 or CI

351. Applied Music Lesson 1-0-1- Applied lesson in woodwind, brass, percussion, piano, strings, and voice. One hour lesson per week with independent practice hours each week. Junior level lesson may be repeated once. Music fee. Required for music major.

355. World Music - 2-0-2 Style and function of music in non-traditional style including the music of Asia, Eastern cultures, Africa, South America, Europe and Australia, as well as the development of American musical forms including jazz and popular music.

390. The Music Industry - 2-0-2 Overview of the music industry regarding arts business and concert management, sales and promotion, professional associations and organizations, publishing, instrument manufacturing, recording industry, legal and financial services, retailing and wholesaling. Includes field trips.

402. Music Education - 2-0-2 Materials and basic philosophy of the aims of music education in the early childhood, middle-grades, junior- and senior-high school music programs. Instructional management for student teaching. PR: Admittance to teacher-education program.

422. Instrumental Literature and Techniques - 2-0-2 Development of instrumental techniques for rehearsal, performance, and a study of the related literature. Study of organization and administration of school

instrumental ensembles. Individual attention will be given to band and orchestra areas.

439. Choral Literature and Techniques - 3-0-3 Choral literature from early Renaissance to the present. Elements of choral performance in public school, college and adult choral groups, including the problems in tone quality, intonation and diction.

442. Opera Literature - 3-0-3 Standard masterworks of opera literature from 1600 to present.

444. Vocal Literature - 3-0-3 Song literature from 1600 to the present. Particular emphasis on interpretive problems. Class performance stressed.

446. Piano Accompanying - 1-2-1 Instruction and practical experience in accompanying.

447. Piano Methods - 2-2-3 Practical application of the principles of teaching piano by means of apprenticeship. Lectures and observations.

450. Piano Literature - 3-0-3 Survey of literature for piano from various periods of piano composition including analysis and performance.

451. Applied Music Lesson 1-0-1 Applied lesson in woodwind, brass, percussion, piano, strings, and voice. One hour lesson per week with independent practice hours each week. Senior level lesson may be repeated once. Music fee. Required for music major.

496. Academic Internship - 3 to 9 hours Problem-oriented experiences on specific academic problems relating to the individual student's program of study, planned in consultation with the student's advisor. PR: See general provisions for academic internships in this catalog.

498. Directed Study - 1 to 3 hours Advanced study of individual research of specific problems. PR: JS or SS, music major and approval of school dean.

PHI PHILOSOPHY

(Evans School of Humanities, Arts and Social Sciences)

150. Introduction to Philosophy - 3-0-3 Significance of philosophy in human life, with introduction to major problems of philosophy.

152. Critical Thinking - 3-0-3 Development of basic skills necessary for participation in public discussion. Focus on recognition of semantic problems, common fallacies in reasoning and propaganda techniques. Development of strategies for effective and legitimate argumentation.

318. Ancient Political Philosophy - 3-0-3 (See GOV 318.) PR: GOV 207 or GOV 211 or GOV 217 or CI.

319. Modern Political Philosophy - 3-0-3 (See GOV 319.) PR: GOV 207 or GOV 211 or GOV 217 or CI.

350. Philosophy of Law - 3-0-3 Study of some major philosophical issues and problems related to law. Among the topics covered are natural law, rights, civil disobedience, privacy, justice, responsibility and punishment. PR: one course in PHI or CI.

351. Ancient and Medieval Philosophy - 3-0-3 Study of major works of Western philosophy from the ancient Greeks through the later Middle Ages. PR: one course in PHI or CI.

352. Early Modern Philosophy - 3-0-3 Study of major works of Western philosophy from Descartes to Kant. PR: one course in PHI or CI.

353. Symbolic Logic - 3-0-3 Introduction to the methods and techniques of modern symbolic logic, including propositional logic, predicate logic and issues in the philosophy of logic.

355 I. Philosophy of Religion - 3-0-3 (See REL 355WI.) A variety of philosophical issues in religious thought, including religious symbolism, the existence of God and the immortality of the soul. PR: one course either in REL or PHI.

357. Later Modern Philosophy - 3-0-3 Study of developments in philosophy since Kant. The course may focus on either continental or analytical philosophy. PR: PHI352 or CI.

358. Bioethics - 3-0-3 (See REL 358.) Seminar focused primarily on ethical issues pertaining to human life such as abortion, euthanasia and new reproductive techniques. PR: one course in REL or PHI.

359 I. Environmental Ethics - 3-0-3 (See REL 359WI.) Seminar on the relationship between humanity and nonhuman nature. Discussion includes current biological, political and economic conditions, the role of technology and major philosophical perspectives. PR: one introductory course in REL or PHI.

425 I. Senior Thesis - 3 to 6 hours (See REL 425WI.) Opportunity to propose, conduct and report a major piece of individual research in an area of special interest. PR: SS and major.

450. Advanced Philosophy Seminar - 3-0-3 Topical seminar on varying philosophical issues. May be repeated for credit with different topics. PR: Any 200-level or above PHI course.

498. Directed Study - 1 to 3 hours Directed study and readings in an area of special interest. PR: SS, major or minor.

PHY PHYSICS

(School of Mathematical and Natural Sciences)

101. Investigations in Physics- 3-2-4 Investigation of important physics concepts through hands-on activities and experiments, as well as some discussion of philosophical and social implications. Topics include motion, energy, entropy, electricity and magnetism, quantum mechanics, atomic theory, and nuclear physics. Intended to satisfy general-education requirement in science for non-science majors. Credit not allowed toward Concentration I physics major.

111. General Physics I with Algebra - 3-2-4 Introductory physics using algebra and trigonometry. Topics include motion in one and two dimensions, Newton's Laws, conservation principles and rotational motion. Thermodynamics, waves, sound and fluids will be covered as time allows. PR: MAT 120 or MAT 201 or CI.

112. General Physics II with Algebra - 3-2-4 Continuation of PHY 111. Topics include electricity, magnetism, geometric optics, wave optics, special relativity, and elementary quantum physics. PR: PHY 111 or CI.

211. General Physics I with Calculus - 3-2-4 General college physics using calculus. Topics covered include mathematical description of motion, Newton's Laws, conservation principles, elementary thermodynamics and special relativity, as time permits. CR: MAT 201

212. General Physics II with Calculus - 3-2-4 Continuation of PHY 211, but may be taken first by very capable students with consent of instructor. Topics covered include electricity, magnetism, light and basic quantum mechanics. CR: MAT 203.

307 I. Modern Physics - 3-0-3 Special relativity, particle properties of waves, wave properties of particles, Heisenberg uncertainty principle, Bohr theory, elementary quantum theory and its application to the hydrogen atom. PR: grade of C- or better in PHY 211 and 212, or CI.

310. Measuring the Fundamental Constants - 1-2-2 Laboratory projects to measure the fundamental

constraints of nature, including the speed of light, Planck's constant, Newton's gravitational constant, and the mass of the electron. PR: PHY 212.

311. Experimental Methods in Physics - 1-2-2 Laboratory projects chosen to introduce the student to methods of modern experimental research and analysis. Includes study of error propagation. PR: PHY 212.

320. Mathematical Methods in Physics- 3-0-3 Survey of mathematical methods commonly used in physics. Includes aspects of linear algebra, vector analysis, differential equations, Fourier analysis, abstract algebra, and variational calculus. PR: PHY 212, MAT 203. CR: MAT 202.

321. Computational Methods in Physics- 3-0-3 An introduction to the methods of computer simulation in physics. The course will be project-based with topics drawn primarily from classical mechanics, including: single particle motions, oscillatory systems, few-body problems, chaotic motion, and random processes. Emphasis is on constructing mathematical models based on physical principles and designing algorithms to implement these models in a computer simulation. PR: PHY 211, MAT 203. CR: MAT 202.

402 I. Classical Mechanics - 3-0-3 An introduction to Lagrangian and Hamiltonian mechanics with applications to central force problems and orbital motion, noninertial frames, rotation of rigid bodies, coupled oscillators, and continuum mechanics. PR: PHY 321.

403. Electrodynamics - 3-0-3 . Static electric and magnetic fields: Maxwell's equations; applications of Maxwell's equations, including radiation, wave optics, and modern modifications. May also include the study of electrodynamics in matter. PR: PHY 307, PHY 320.

410. Thermodynamics and Statistical Mechanics - 3-0-3 The laws of thermodynamics, the kinetic theory of gases and an introduction to statistical mechanics. PR: PHY 307I.

411. Advanced Topics - 2-0-2 to 3-0-3 Topics of mutual interest to students and professors, which cannot be scheduled regularly. Normally for juniors and seniors.

430 I. Quantum Mechanics - 3-0-3 An introduction to the techniques of quantum mechanics including the Schrödinger equation, eigenvalues and eigenstates, operators, matrix mechanics, and elementary perturbation theory. Simple systems such as barrier potentials, the harmonic oscillator and the hydrogen atom will be examined. Philosophical aspects of quantum mechanics will be discussed whenever possible. PR: PHY 307I, PHY 320; MAT 303 helpful.

433. Solid State Physics- 3-0-3 Application of quantum mechanics to understand the properties of solids, including crystal structures, electrical conductivity, lattice vibrations, and magnetic ordering. Other potential topics include semiconductors, an introduction to superconductivity, and liquid crystals. PR: PHY410 or PHY430 or CI

435 I. Subatomic Physics - 3-0-3 Topics chosen to fit the students' preparation and interest. Potential topics include the atomic nucleus, quantum electrodynamics, conservation laws and symmetries, and the standard model of particle physics. PR: PHY 307I, PHY 320; MAT 303 helpful.

490. Physics and Astronomy Seminar - 1-0-1 Current literature and research reports by faculty, students and visiting speakers. Each student is required to investigate a current research topic in physics or astronomy and perform an oral presentation. For junior and senior physics majors only. May be repeated, but student may not count more than two hours toward physics major or minor. PR: PHY 212.

496. Academic Internship - 3 to 12 hours Problem-oriented experiences on specific academic projects relating to the individual student's program of study, planned in consultation with the student's advisor. PR: See general provisions for academic internships in this catalog.

498. Directed Study - 1 to 3 hours Directed study, readings and problem solving in an area of special interest. May be repeated. PR: JS or SS; major or minor; and approval of school dean.

PSY PSYCHOLOGY

(Charter School of Education and Human Sciences)

101. Introduction to Psychology - 3-0-3 The fundamental principles of psychology including heredity, environment, motivation, the nervous system and the emotional adjustment of the individual and the group. General knowledge of psychological terms and concepts emphasized. Open to all students regardless of their field of specialization. May use either PSY 101 or 103 toward general education and psychology major requirements. NOTE: Student cannot take both PSY 101 and PSY103 for credit.

103. Psychology in Context- 3-0-3 The exploration of major perspectives in the field of psychology (i.e. behavioral, cognitive, sociocultural, and physiological) to examine contextual topics. May use either PSY101 or 103 toward general education and psychology major requirements. NOTE: Student cannot take both PSY101 and PSY103 for credit.

205. Orientation to Psychology - 1-0-1 Orientation to the field of psychology familiarizing students with the practices of psychologists. Students will be presented with information about the psychology major, the course offerings in psychology, career opportunities in psychology and graduate study. Differing orientations toward the field of psychology will be explored. This course is directed toward freshman and sophomore declared majors. PR: PSY 101 or PSY 103.

207. Psychology of Personality - 3-0-3 Theories of personality structure and dynamics used in analysis of personal development. PR: PSY 101 or PSY 103 or CI.

211 I. Human Sexuality - 3-0-3 Study of the biological basis of the human sexual response system, sexual individuality and values, reproduction and health and legal and social issues related to human sexuality. Classic studies in human sexuality as well as new research generated in the field will be examined.

221 I. Life-Span Developmental Psychology - 3-0-3 Overview of human development across the life span from prenatal to late adulthood. Critical examination of current research within the context of various theories of development will be emphasized. Readings, observations and reports required.

240. Educational Psychology - 2-2-3 Application of psychological theories to intelligence, learning, development, individual differences, motivation, behavior management and discipline. Applied settings include coaching and sports psychology, camp counseling, schools and mentor settings, business and industry and recreational settings. Field experience required. PR: PSY 101 or PSY 103.

298. Research Practicum - 1 to 3 hours Students will be involved in designing experiments, collecting data, scoring data, entering and analyzing the data, formulating future studies and writing reports. Students will learn about the development and execution of research projects. May be repeated for up to six credits. A one-hour weekly research seminar is required. PR: PSY 101 or PSY 103 and consent of faculty supervisor during semester preceding enrollment.

303 I. Health Psychology in Sociocultural Context - 3-0-3 Explores the psychological processes involved in health with a particular focus on the confluence of gender, race and class. Within this context, individual experiences of a variety of health related topics will be covered including sources of stress and stress management, social support, adoption of healthy/risky behaviors, adherence to medical advice, experiences as recipients of health care and coping with chronic illness and death.

304. Social Psychology - 3-0-3 The influence of social forces on one's everyday thoughts and behaviors. Survey of theory and research on social perception, self-perception, conformity, group behavior, altruism, aggression and close relationships. PR: PSY 101 or PSY 103.

315. Counseling Theory - 3-0-3 Various counseling theories, techniques and approaches including affective, cognitive, systems and behavioral interventions. PR: PSY 101 or PSY 103.

316. Counseling Practice - 1-6-3 Development of counseling skills. Practicum experience with a human-service agency based on each student's area of interest in counseling. PR: PSY 101 or PSY 103 and PSY 315.

318. Abnormal Psychology - 3-0-3 Survey of the psychological disorders classified in current Diagnostic and Statistical Manual of Mental Disorders (DSM). Diagnostic criteria will be the primary focus of the course. PR: PSY 101 or PSY 103.

323. Experiential Education Leadership Development - 2-2-3 (See KIN 323.) Learning theory, group dynamics, team-building and leadership techniques for experiential-education challenge-course adventure activities, initiatives and games. Exploration of the use of experiential-education activities in organizations, therapeutic settings and the classroom. Fee. PR: PSY 101 or PSY 103.

342. Child and Adolescent Psychology - 3-0-3 Examination of theories and current research in cognitive, emotional, social and physical development in infancy through adolescence. Familial, peer group, educational and cultural contexts will be emphasized. Observations and participation in research are required. PR: PSY 101 or PSY 103 and 221WI.

350. Industrial and Organizational Psychology - 3-0-3 Application of psychological principles to the organizational/industrial setting.

355. Psychology of Interpersonal Relations - 3-0-3 Current theories and practices in group process designed to increase intra- and inter-personal awareness and sensitivity. PR: PSY 101 or PSY 103 or CI.

360 I. Research Methods and Statistics I - 3-0-3 An introduction to different methodological approaches to the field of psychology with emphasis on non experimental approaches. Development of professional writing skills and ethical standards in research and increasing understanding of basic descriptive statistics and correlational analyses using computer programs. Ethical issues in psychology and the importance of publication will be reviewed. PR: PSY 101 or PSY 103 and any 100 or 200 level MAT or CI.

361 I. Research Methods and Statistics II - 3-0-3 Application of the scientific method and statistical procedures to the field of psychology with special emphasis on the experimental method through two-group and factorial designs, within subjects with repeated measures and mixed-model designs. Use of statistical analyses including t-tests, analysis of variance and post-hoc measures using computer programs is stressed. Group and independent research projects required. PR: Grade of C or higher in PSY 360 I.

385 I. Psychology of Women - 3-0-3 Interdisciplinary investigation of the psychological, social, emotional and cognitive aspects of women in society. Investigation of research, theory and real-world application of a variety of issues related to women.

390. Adulthood and Aging - 3-0-3 In-depth survey of adult development focusing on current research in social, cognitive, biological and psychological developmental issues. Hands-on research experience is a component of this course. PR: PSY 101 or PSY 103 and PSY 221 I.

401. Psychological Testing - 3-0-3 Tests used in assessment of general and special abilities; intelligence, personality, achievement, vocational and neuropsychological inventories. History of psychological testing, review of intelligence and other psychological constructs, ethical considerations and factors involved in test development and selection. Introduction to statistical methods used in evaluation and measurement. PR: PSY 101 or PSY 103 required; MAT 111 recommended.

405 I. Learning - 3-0-3 Focuses on basic principles of classical and instrumental/operant conditioning and factors that govern the acquisition or elimination of learned responses. Theories and applications of learning principles to modify human behavior as well as for behavioral treatments of mood, anxiety and substance-abuse disorders will be discussed. PR: 361 I.

406 I. Cognitive Psychology - 3-0-3 Study of the cognitive bases of attention, perception, memory, language and problem solving. Current theories and research are emphasized. PR: PSY 361 I.

410. Sensory and Perceptual Processes - 3-0-3 Fundamental of sensation and perception. Emphasis placed on understanding neurophysiology of the sensory systems and how knowledge of the sensory systems is used to improve quality of life. PR: PSY 101 or 103, and PSY 360 I.

411. Behavioral Neuroscience - 3-0-3 Principles in neuroscience and organization of the central nervous system. Interrelations between the brain and wakefulness and sleep, homeostatic processes, memory, emotion, sexual behaviors and processes associated with thinking and language will be examined. Clinical perspectives on the diagnosis and treatment of neurodegenerative disorders are emphasized. PR: PSY 101 or 103, and PSY 360 I.

423. Introduction to Exceptional Children and Youth - 1-0-1 Introduction to the characteristics and classroom modifications for learning-disabled, mildly intellectually disabled and emotionally/behaviorally disturbed youngsters. PR: PSY 101 or PSY 103 or admittance to the teacher-education program.

424. Psychology and Education of Exceptional Children and Youth - 2-0-2 Examination of the causes, characteristics and educational strategies for exceptional students. PR: PSY 101 or PSY 103 or admittance to the teacher-education program. CR: EDU 499.

434. Psychology and Education of Exceptional Children and Youth - 3-0-3 This course examines the causes, characteristics and interventions and strategies for exceptional students. Field-based practicum occurs during student teaching.

435. Seminar in Psychology - 1 to 3 hours Advanced study of current special-interest topics in psychology. May be repeated for credit. PR: PSY major or minor, JS or SS, or CI.

440 I. Advanced Abnormal Psychology - 3-0-3 Seminar on the major psychological disorders. Readings on etiological factors, treatment approaches and efficacy, and first-person accounts will be discussed. Role of culture in psychopathology will be analyzed. PR: PSY 101 or PSY 103 and PSY 318.

461. Advanced Statistics - 3-0-3 Data analytic techniques used in experimental and non-experimental research (e.g., non-parametric statistics, analysis of variance and multiple regression). Use of computers to analyze data will be stressed. PR: MAT 111 and PSY 360 I.

470 I. History and Systems of Psychology - 3-0-3 The emergence of psychology as a science. Examination of the antecedents of scientific psychology, the establishment of psychological science and the contributions of various traditions of psychological theory and application. PR: PSY 101 or PSY 103, SS or CI.

496. Academic Internship - 3 to 6 hours Problem-oriented experiences on specific projects relating to the individual student's program of study in psychology, planned in consultation with the student's advisor at least one full semester prior to the internship. The psychology internship may be repeated up to a maximum of 12 credit hours with permission. Only six credit hours may be counted as part of the psychology major, and only three credit hours may be used for the psychology minor. PR: See general provisions for academic internships in this catalog.

498. Directed Study - 1 to 3 hours (May be repeated up to six hours of credit.) Self-directed study, employing research techniques, critical reviews, observations and bibliographical aids used to guide the student in developing a research paper. PR: PSY 101 or PSY 103, PSY 360 I and 361 I; JS or SS and approval of school dean and directed-study advisor during the semester preceding the independent study.

REL RELIGION

(Evans School of Humanities, Arts and Social Sciences)

100. World Religions - 3-0-3 Major religions of the world, with background of historic and cultural developments.

- 101. Interpreting the Old Testament - 3-0-3** Introduction to study of the Old Testament, with emphasis on the history, literature and religion of ancient Israel.
- 102. Interpreting the New Testament - 3-0-3** Introduction to study of the New Testament, with emphasis on the historical background of the New Testament, the person of Jesus and the beginnings of Christianity.
- 103. Introduction to Christian Theology - 3-0-3** Basic principles of the development of Christian theology.
- 107. Introduction to Christian Ethics - 3-0-3** Christian principles as they apply to one's obligations as a member of modern society.
- 227. New Testament Greek - 3-0-3** Introduction to the Greek alphabet, grammar and vocabulary, with a view to providing students with the basis for a reading knowledge of New Testament Greek.
- 305 I. History of Christianity - 3-0-3** An examination of the development of the ideas and institutions of Christianity from the first century to the present. Special attention will be given to the Reformation and post-Reformation roots of modern denominations.
- 320 I. Seminar in Biblical Studies - 3-0-3** Topical seminar on varying biblical issues. May be repeated for credit with different topics. May be offered as a writing-intensive (WI) section, depending on topic. PR: REL 101 or 102 or CI.
- 326. Seminar in World Religions - 3-0-3** In-depth study of any single religion or group of religions related by historical or geographical affinities. May be repeated for credit with different topics. PR: REL 100 or CI.
- 327. Science and Religion - 3-0-3** This course represents an effort to correlate scientific and religious intellectual commitments. It focuses on ideas of divine action as the latter is relevant to "Big Bang" cosmology and the origin of the universe, neo-Darwinism and the evolutionary development of the universe and chaos and complexity as traits of the universe at any point in its development. PR: one course either in REL, PHI or any field of the natural sciences.
- 328. Spiritual Traditions of Asia - 3-0-3** Study of Hinduism, Buddhism, Taoism and Zen. PR: REL 100 or CI.
- 330. Church and State - 3-0-3** Role of religion in American politics, focusing on contemporary issues. PR: one course in REL, PHI or GOV or CI.
- 331. Christian Faith and Feminist Critique - 3-0-3** This course explores feminist concerns regarding the Christian faith. It focuses primarily on the work of feminists writing within the Christian tradition and deals with the topics of the language of scripture and liturgy, biblical models of the family, the role of women in leadership positions in various denominations and the theological issues related to "God the Father" and "Jesus the Son."
- 345. Mysticism East and West - 3-0-3** This course seeks to understand mysticism as a phenomenon common to all major religions. Through a careful exploration of mystical tradition from the East (particularly Hinduism) and West (particularly Christianity), the course investigates the impact of mysticism on theology, politics and cultural practice. PR: any 100-level REL or CI.
- 355 I. Philosophy of Religion - 3-0-3** (See PHI 355WI.) A variety of philosophical issues in religious thought, including religious symbolism, the existence of God and the immortality of the soul. PR: one course either in REL or PHI.
- 358. Bioethics - 3-0-3**
(See PHI 358.) Seminar focused primarily on ethical issues pertaining to human life such as abortion, euthanasia and new reproductive techniques. PR: one course either in REL or PHI.
- 359 I. Environmental Ethics - 3-0-3** (See PHI 359WI.) Seminar on the relationship between humanity and nonhuman nature. Discussion includes current biological, political and economic conditions, the role of

technology and major philosophical perspectives. PR: one introductory course in REL or PHI.

360 I. Religion and Film - 3-0-3 Exploration of religious assumptions and ideas reflected and expressed in film.

370. Sociology of Religion - 3-0-3 (See SOC 370.)

372. Scripture, Culture and Experience - 3-0-3 Comparative study of the creative ways by which scriptural teachings are expressed and experienced in the world's major religious traditions.

375 I. Seminar in Religious Ethics - 3-0-3 Topical seminar in varying issues in religious ethics. May be repeated for credit with different topics. PR: REL 107.

381 I. Religion in American History - 3-0-3 Exploration of the role of religion in American life from the colonial period to the present. PR: one REL course or CI.

382. Women in World Religions - 3-0-3 An examination of women in world religions. Particular attention will be paid to women in religions other than Christianity. PR: REL 100, WNS 210 or CI.

425 I. Senior Thesis - 3 to 6 hours (See PHI 425WI.) Opportunity to propose, conduct and report a major piece of individual research in an area of special interest. PR: SS and major.

450. Seminar in Religion - 3-0-3 In-depth examination of selected topics in religious studies.

496. Academic Internship - 3 to 6 hours Problem-oriented experiences in specific academic projects relating to the individual student's program of study, planned in consultation with the student's advisor. PR: See general provisions for academic internships in this catalog.

498. Directed Study - 1 to 3 hours Directed study and readings in an area of special interest. PR: SS, major or minor.

SOC SOCIOLOGY

(Evans School of Humanities, Arts and Social Sciences)

200. Introduction to Sociology - 3-0-3 Fundamental concepts and principles of sociology, with emphasis on social organization, social control, social change and stratification, social institutions, social processes and social relationships.

225. Social Problems - 3-0-3 Genesis of social maladjustments, attitudes and behaviors in the person, the family and the community. Social disorganization resulting from the unprecedented rate of social change in modern society, lagging norms and phenomenal technological developments. PR: SOC 200 or ANT 200.

300 I. Social Theory - 3-0-3 (See ANT 300WI.) Development of social theory within the disciplines of sociology and anthropology. Emphasis on major schools of thought and significant theorists in sociology and anthropology. PR: SOC 200 or ANT 200 or CI.

305 I. Social-Science Research Methods - 3-0-3 (See ANT 305WI.) Introductory research course of social scientists. Nature of scientific social inquiry, basic methods and techniques of data collection and analysis, emphasizing reciprocal nature of theory and research. PR: SOC 200 or ANT 200 or CI.

310. Latinos in the United States- 3-0-3 (See LCS 310.) Examines the history of Latino immigration to the U.S. and explores the contemporary nature and status of Latino populations in various parts of the country. Involves community-based research on Latino communities in Georgia.

320. Criminology - 3-0-3 Exploration of the social forces behind criminal and deviant behavior. Definitions and concepts of crime; theories of crime causation; crime typologies; and the criminal justice system. PR: SOC 200 or ANT 200.

335. Social Inequality: Race, Class and Gender - 3-0-3 Empirical and theoretical exploration into the causes and consequences of inequality in contemporary society. Emphasis on the economic and cultural disadvantages of minorities, women and the poor. Topics include poverty, social mobility, affirmative action, racism, sexism and rape. PR: SOC 200 or ANT 200 or WNS 210.

345. Sociology of Health - 3-0-3 Explores the social, cultural, political and economic forces that influence health, health-seeking behaviors, or health and medical policies. Emphasis given to serious human mental disorders and physical problems and diseases, theory and research pertaining to these social processes, and ecological and demographic factors in health and medicine. PR: SOC 200 or ANT 200.

350. Sociology of the Family - 3-0-3 The family as a social institution; structure and functions of the family; comparative family systems; social change and the family; special emphasis on courtship, marriage, marital adjustment and marital dissolution in American society; alternatives to marriage and the family. PR: SOC 200 or ANT 200.

355. Environmental Sociology - 3-0-3 Focus of the course is to help students develop a critical understanding of the dominant trends in modern environmental thought. Includes a study of the sociological dimensions of major contemporary environmental problems and policies. PR: ANT 200 or SOC 200.

360. Special Topics in Sociology 3-0-3 Exploration of a current issue or substantive field in sociology. PR:ANT200 or SOC 200 or CI. Repeatable- no limit as long as topic changes.

370. Sociology of Religion - 3-0-3 (See REL 370.) Empirical and theoretical exploration of the social conditions which shape religious belief and practice. Topics include religion as both instigator of and impediment to social change, secularization and new religious movements. PR: SOC 200 or ANT 200.

375. Sociology of Disability 3-0-3 Examines the range of theoretical perspectives on disability, with emphasis on construction of disability, its historical and cross-cultural variation, institutional and organizational contexts, and interactional and emotional dimensions. Particular attention is given to the experience of living with various biomedical conditions and the ways in which the social status of disability is related to other forms of social inequality and difference. PR: ANT 200 or SOC 200 or CI.

380. Community 3-0-3 Analysis of trends in community research and theory. Consideration for community as a unit of social organization from multiple perspectives including political economy, ideal type, ecological system, virtual. Examination of community in a global era with consideration of economic, cultural, and political impacts on power structures and processes of change. PR: ANT 200 or SOC 200.

387. Gender, Law and Society - 3-0-3 (See WNS 387.)

430. Sex, Gender, and Sexuality in Society -3-0-3 Central course themes are changes and continuities in gender roles within the United States, the social processes that influence gender and sexual identities, and the connections between gender, sexuality, power, and inequality. Special attention will be paid to how race, class, and sexual orientation intersect with processes of gender relations and social change. PR: SOC 200 or ANT 200 or WNS 210. Satisfies elective in SOC/ANT major and/or WNS minor.

450. Seminar in Sociology - 3-0-3 In-depth study of an issue, topic, or subfield in sociology. Intensive reading, writing, and seminar-format discussion. PR: two 300- or 400-level SOC or ANT courses or CI

480 I. Senior Project - 3-0-3 Opportunity to propose, conduct and report an individual research project in an area of special interest. This will be the capstone course for the SOC/ANT major. PR: SOC 300 and SOC 305 or CI

496. Academic Internship - 3 to 6 hours Problem-oriented experiences in specific academic projects relating to the individual student's program of study, planned in consultation with the student's advisor. PR: See general provisions for academic internships in this catalog.

498. Directed Study - 1 to 3 hours Supervised reading or opportunity for written research in the field of sociology when the area of study is highly specialized or the material is not otherwise available in the departmental curriculum. PR: second-semester JS or SS majors with approval of school dean.

SPA SPANISH

(Evans School of Humanities, Arts and Social Sciences)

101. Introduction I to Spanish - 4-1-4 Acquisition of the fundamentals of speaking, listening, reading and writing.

102. Introduction II to Spanish - 4-1-4 Further development of basic language skills introduced in Spanish 101. PR: SPA 101 or departmental placement.

200. Intermediate Spanish - 4-1-4 Completion of basic linguistic structures and the study of Hispanic civilization and culture. PR: SPA 102 or departmental placement.

204FLA. Special Topics in Foreign Languages - 3-0-3 Special topics in languages not covered by the regular curriculum. May be repeated for credit.

205-305. Spanish Study Abroad - 3 to 9 hours Taught in Spain. Intensive study of Spanish language and culture through class work, conversation and travel. Credit assigned at the 200 or 300 level, depending on previous language experience. May complete the B.A. foreign-language requirement. Honors, Satisfactory or Unsatisfactory. PR: SPA 101-102 or departmental placement.

300. Spanish in Context - 3-0-3 This course promotes Spanish language proficiency in all four skill areas, with a particular focus on reading and writing, and deepens students' cultural awareness. Through a thorough review and expansion of Spanish vocabulary and grammar, the course serves as a bridge between the basic language sequence and upper-level courses. Students enrolled in this course are required to participate for one hour per week in community initiatives using their Spanish-language skills. PR: SPA200 or department placement

301. Advanced Spanish Conversation - 3-0-3 Review of grammar and improvement of speaking skills through the analysis and discussion of contemporary Hispanic culture. PR: SPA 300.

302 I. Advanced Spanish Composition - 3-0-3 Review of grammar and improvement of writing skills. PR: SPA 300.

306. Spanish for Other Disciplines - 1 to 3 hours This course is a component of the Foreign-Languages-Across-the-Curriculum Program. It will be taught in conjunction with a course from another discipline. Students will study selected materials in Spanish and meet weekly to discuss them in Spanish with their professor. Requires special authorization. May be repeated for credit. PR: SPA 300.

307. Advanced Spanish Grammar - 3-0-3 Advanced study of Spanish syntax, morphology and other grammar-related areas. Particular emphasis on problems encountered by English speakers. PR: SPA 300.

308 I. Introduction to Literary Analysis - 3-0-3 Textual analysis of works by representative Hispanic authors. Emphasis on acquiring methods of literary analysis. PR: SPA 300.

310. Survey of Peninsular Spanish Literature - 3-0-3 Survey of the development of Spanish literature from the medieval period to the present, and reading of excerpts from selected masterpieces. PR: SPA 300.

311. Survey of Spanish-American Literature - 3-0-3 Survey of the development of Spanish-American literature from the colonial period to the present, and reading of excerpts from selected masterpieces. PR: SPA

300.

324. Hispanic Culture - 3-0-3 Study of Spanish and Spanish-American history, art, politics and social structures. May be taught at Berry or abroad. PR: SPA 300.

350. Pura Vida: Language and Culture in Costa Rica -3-0-3 This course is taught as part of the Berry College/Fundacion Progreso Guanacaste summer program in Costa Rica. Students in this course will study the history, literature, cultural production, language and politics of Costa Rica with a specific focus on the northwest region of Guanacaste. Major/Minor elective.

400FLA. Foreign-Language Education in the Elementary School - 3-0-3 Methods of classroom procedures, functional units, use of audiovisual aids/media and evaluation of pupil growth in grades K-6. Field experience required. PR: FRE, GER or SPA 301; or FRE, SPA 302WI.

403. Contemporary Spanish-American Literature - 3-0-3 Study of the 20th-century Spanish-American literature with special emphasis on the analysis of prose fiction. PR: any 300-level SPA.

404 I. Spanish Business Communication - 3-0-3 Development of oral and written skills in business and trade transactions. PR: any 300-level SPA.

405 I. Topics in Spanish - 3-0-3 Study of a variety of trends in Spanish literary, philosophical and/or political thought. May be repeated once for credit. PR: any 300-level SPA.

407. Introduction to Spanish Linguistics - 3-0-3 Introduction to basic concepts in linguistic theory and their application to the structure of the Spanish language. PR: SPA 302I or 307.

408 I. Masterpieces of Early and Golden Age Literature - 3-0-3 Study of major works of the medieval and Golden Age periods of Spanish literature. PR: any 300-level SPA.

409 I. Nineteenth- and 20th-Century Spanish Literature - 3-0-3 Study of the major literary movements of 19th- and 20th-century Spain, including Romanticism, Realism, Naturalism, Generation of 98 and Civil War literature. PR: any 300-level SPA.

450. Senior Project in Spanish - 3-0-3 Research project required for graduation if student cannot complete study abroad. Class will be created in consultation with major advisor. PR: SS, CI.

496FLA. Academic Internship - 3 to 12 hours Problem-oriented experiences on specific academic projects relating to the individual student's program of study and planned in consultation with the student's advisor. PR: See general provisions for academic internships in this catalog.

498. Directed Study - 1 to 3 hours Research projects developed, according to the need of the individual student, under the direction of the instructor. PR: any 400-level SPA and CI; JS or SS majors only; and approval of school dean.

STA STUDY ABROAD

200. Intercultural Awareness for Education Abroad - 1-0-1 or zero credit option. This course is designed to assist students in acquiring the knowledge, attitudes, and skills that will enhance semester-long education abroad by providing a foundation for intercultural learning. Students will develop an awareness of cultural competence by exploring cultural identity, analyzing diverse worldviews, examining processes of intercultural communication, and developing strategies for cultural adjustment. Student studying abroad for a semester are strongly encouraged to take this course. PR: Permission only. *This course is pass-fail.*

323. Study Abroad Cultural Experience - 1 to 9 hours Cross-cultural analysis in a variety of fields completed abroad at an approved institution by students enrolled at Berry College. Written projects evaluated by appropriate Berry College faculty.

THE THEATRE

(Evans School of Humanities, Arts and Social Sciences)

201. Experiencing Theatre - 3-0-3 Appreciation of theatre as a collaborative art from the perspective of the audience member. Theatrical style, direction, acting, design, management and criticism explained and illustrated by performances and productions.

208. Basics of Acting - 2-2-3 Introduction to acting fundamentals and selected rehearsal and performance skills from the practical perspective of the working actor. Exploration of the actor's relationship to the playscript, to the stage environment and to elements of the actor's instrument (body, voice, imagination, etc.). Practical application of techniques and principles of acting including in-class exercises, rehearsed scenes and monologues.

209. Basics of Directing - 2-2-3 Introduction to directing fundamentals and selected rehearsal strategies from the practical perspective of the working director. Exploration of the director's relationship to the playscript, to the stage environment and to fellow collaborators. Practical application of techniques and principles of directing including in-class exercises, textual analysis and rehearsed scenes.

220. Musical Theatre 3-0-3 (See MUS 320)

221. Stagecraft - 2-2-3 Development of a basic understanding of the technical aspects of theatre. Principles and practices in the construction of stage scenery and the rigging/focusing of lights. Laboratory component focusing on construction and painting of major productions in E.H. Young Theatre. Materials fee.

228. Topics in Theatre - 3-0-3 Special topics in theatre designed to accommodate material that is highly specialized or not otherwise available in the departmental curriculum.

261. Costuming and Makeup - 2-2-3 Emphasis on the "how" and "why" of costumes and makeup for the stage. Practical experience in draping, pattern layout, simple sewing skills, the basic elements of textiles and costume crafts. Principles and practice of makeup and hairstyling for the theatre. Laboratory component focusing on costume and makeup projects associated with major productions in E.H. Young Theatre

263. Design Fundamentals 2-2-3- Introduction to the fundamentals of design for the theatre. Elements and principles of design applied to all areas of theater design including scenery, costumes, and lighting.

304 I. Introduction to Playwriting - 3-0-3 Creation of original scripts for theatre; instruction in the craft of playwriting and guidance toward constructive self-criticism. Selected readings from classical or contemporary playwrights. Possible selection of student work for reading and performance. PR or CR: one 200-level literature course.

308. Intermediate Acting - 2-2-3 Advanced principles and techniques in acting with emphasis on characterization, playing period styles and ensemble performance. Exploration of theories of acting from the Greeks to the present day.

309. Advanced Directing - 2-2-3 Principles and techniques of directing the realistic modern play. Case studies and scene work, analysis and preparation for performing a one-act play, including the development of a prompt script. Emphasis on the artistic, analytical, interpersonal and visual skills required to become an effective director. PR: THE 209.

328. Advanced Acting 2-2-3- Performance-based course in selected topics in acting beyond the intermediate

level. Options for the course will include Auditions, Period Style Acting, Acting Shakespeare, Acting for the Musical, and Acting Chekhov. At least one of the aforementioned topics will be offered every other year and will be selected based on student demand. Consequently, the course is repeatable as other options are offered. PR: THE 208 and THE 308.

341 I. History and Literature of Theatre I - 3-0-3 Theme based course that examines the early history of theatre, development of drama, and the evolution of theory and criticism of drama and performance. International in scope and with a study of theatre from the Greeks to 1850. THE 341 and 342 do not have to be taken in sequence..

342 I. History and Literature of Theatre II 3-0-3 Theme based course that examines the later history of theatre ,development of drama, and the evolution of theory and criticism of drama and performance. International in scope and with a study of theatre from 1850 to the present. THE 341 and 342 do not have to be taken in sequence.

363. Costume Design - 2-2-3 The role of the costume designer as a collaborative artist in the theatre process. Techniques of figures drawing and the use of various color media for the production of finished rendering. Both historical and contemporary design styles considered. PR: THE 261 and 263.

365. Stage Design - 2-2-3 Technical and artistic approach to lighting and scenery design, including rendering techniques as well as the role of design in guiding the direction and shape of theatrical production. May be repeated once for credit. PR: THE 221and THE 263.

450. Senior Project - 3-0-3 Synthesis of theatre research, practice and theory with a special emphasis on career planning and portfolio development. Students must complete writing assignments for the seminar and a portfolio (academic and professional) for faculty review. PR: Senior standing and CI

496. Academic Internship - 3 to 6 hours Problem-oriented experiences in specific academic projects relating to the individual student's program of study, planned in consultation with the student's advisor. PR: See general provisions for academic internships in this catalog.

498. Directed Study - 1 to 3 hours Advanced study or individual research of specific problems based on an outline prepared by the student and the instructor. Involves extensive investigation and commitment by the student. PR: JS or SS and approval of school dean.

WNS WOMEN'S STUDIES

(Evans School of Humanities, Arts and Social Sciences)

210. Introduction to Women's Studies - 3-0-3 This course provides an interdisciplinary overview of the history and current status of women, paying particular attention to diversity in women's experiences. Issues addressed include gender socialization, representations of women in culture, work and family, law and social policy, violence against women, health care and religion.

344. Special Topics in Women's Studies - 3-0-3 Concentrated study in a special topic in women's studies.

365. Language and Gender- 3-0-3 See ENG 365.

387. Gender, Law and Society - 3-0-3 Examination of how law has reflected, reinforced and shaped ideas about appropriate gender roles and how race, class and other aspects of identity intersect with gender to determine legal rights.

409. Gender and Education - 3-0-3 (See EDU 409.)

412. Women's Studies Seminar - 3-0-3 Capstone course for the women's studies minor. Students undertake major projects in which they apply the theories and methodology of women's studies to their major fields. PR: WNS 210.

496. Academic Internship - 1 to 3 hours Problem-oriented experiences in specific academic projects related to the individual student's program of study, planned in consultation with the student's advisor. PR: WNS minor and approval of director of women's studies.

498. Directed Study - 1 to 3 hours Supervised reading or opportunity for written research in the field of women's studies on a topic that is not otherwise available in the program curriculum. PR: WNS minor and approval of director of women's studies.