

COURSE DESCRIPTIONS

ACCOUNTING

ACC 231. ACCOUNTING PRINCIPLES.

The purpose and nature of accounting, preparation of financial statements, accounting cycle for service and merchandising enterprises, internal control, accounting for corporations and analysis/interpretations of financial statements. Three credits. (Fall, Spring, Summer)

ACC 330. MANAGERIAL ACCOUNTING.

Prerequisites: ACC 231

A basic understanding of the interpretation and uses of accounting data in planning and controlling business activities of cost behavior. Three credits. (Fall, Spring, Summer)

ACC 331. ACCOUNTING PRINCIPLES—INTERMEDIATE I.

Prerequisites: ACC 231

Emphasis on accounting theory and conceptual framework, financial statement structure and terminology, continuing emphasis on current accounting standards, problems, and the changing nature of contemporary principles and practices. Three credits. (Fall, Spring)

ACC 332. INCOME TAX ACCOUNTING.

Prerequisites: ACC 231

A comprehensive look at the application of the income tax regulations and laws as they apply to individuals. Additionally, tax principles, tax planning, tax shelters, tax practice and procedures, and tax research will be examined. Three credits. (Fall, Spring)

ACC 334. ACCOUNTING PRINCIPLES—INTERMEDIATE II.

Prerequisite: ACC 331

A continuation of Intermediate I, with sustained emphasis on accounting theory and concepts. Special areas of emphasis include corporate capital, statement of changes in financial position, earnings per share, statement analysis and interpretation, impact of price-level change, revenue recognition, leases and pensions. Three credits. (Spring)

ACC 431. ACCOUNTING PRINCIPLES-ADVANCED.

Prerequisite: ACC 334.

Continued emphasis on the theoretical framework of accounting. Application of concepts and procedures to special areas and activities including partnership accounting, variants of revenue recognition, extended coverage of business combinations and corporate consolidations, fiduciary and budgetary accounting. Three credits. (Fall)

ACC 432. COST ACCOUNTING.

Prerequisites: ACC 331, (334 Suggested).

Concepts of managerial responsibility for planning, control, and decision-making through the application of techniques of cost data accumulation, allocation, distribution, and reporting; job order, process, and standard cost systems are also examined. Three credits. (Fall, Spring)

ACC 433. AUDITING.

Prerequisites: ACC 331, (334 Suggested).

Conceptual approach to the professional and technical aspects of the auditing discipline, emphasizing attainment of audit objectives through application of auditing principles, standards, procedures, and internal control features. Three credits. (Fall, Summer)

ACC 434. CPA PROBLEMS AND REVIEW.

Prerequisite: ACC 334.

Review and preparation for the CPA examination. Three credits. (Fall)

ACC 461, 462. INTERNSHIP IN ACCOUNTING.

Ten on-site work hours per week for one semester. Three credits. (On demand)

ACC 465, 466. INTERNSHIP IN ACCOUNTING.

Twenty on-site work hours per week for one semester. Six credits each. (On demand)

ACC 470. CO-OP PROGRAM IN ACCOUNTING.

Forty on-site work hours per week for one semester. Twelve credits. (On demand)

ART

ART 200. ART APPRECIATION.

A study of the fundamentals of visual design, the materials and techniques by which they are made, and the principal forms of art developed by cultures both ancient and modern. Three credits. (Fall, Spring)

ART 201. DESIGN I.

An examination of the principles, theories, and concepts of color and design and their application to two and three dimensional design. There will be formal exercises which are aimed at assisting the students in the development of sensitivity to color, composition, and form-making. Studio course. Three credits. (Odd Fall)

ART 205. PHOTOGRAPHY.

A basic introduction to the equipment, materials, and techniques for producing good photographic prints, as well as the aesthetic concepts related to the art of photography. Three credits. (Fall)

ART 206. SCULPTURE.

Introduction to three-dimensional materials, techniques, and additive and subtractive sculptural processes. Three credits. (Even Fall)

ART 211. DRAWING I.

Basic visual concepts and materials traditionally associated with the art of drawing. Three credits. (Fall)

ART 217. PHILOSOPHY OF ART.

An analysis of the principles involved in the description, interpretation, and evaluation of the arts and the relation of aesthetics to other aspects of philosophy. Three credits. Cross-listed with Philosophy 217. (Even Fall)

ART 221. PAINTING I.

Prerequisite: ART 201 or 211 or permission of instructor

Beginning course designed to introduce the student to basic materials and painting techniques. Emphasis on expressive effect and the emotional nature and impact of the art work. Three credits. (Fall)

ART 223. GRAPHIC REPRODUCTION TECHNIQUES.

Prerequisites: ART 201, 211.

Introduction to the art of printmaking, including project work in linocut, woodcut, drypoint, etching, engraving, silk-screen, and combined media. Three credits. (Odd Fall)

ART 225. CERAMICS.

Introduction to the art of handbuilding and wheel throwing, glazing, decorating, kiln construction, and firing techniques. Three credits. (Spring)

ART 301. DESIGN II.

Prerequisite: ART 201.

Further development of concepts related to the organization of visual elements in two and three dimensional designs. Three credits. (Even Spring)

ART 311. DRAWING II.

Prerequisite: ART 211.

Beginning studio course in the fundamentals of drawing the human figure. It will cover basic topics such as the structure of the human body, general proportions, and basic expressive considerations. Three credits. (Spring)

ART 321. PAINTING II.

Prerequisites: ART 211, 221.

The exploration of a variety of media and subjects. This course emphasizes the development of personal modes of expression in form and content. Three credits. (Spring)

ART 341. HISTORY OF ART I.

Prerequisite: HIS 101.

A survey of art from the Paleolithic Period through the Gothic. Three credits. (Fall)

ART 342. HISTORY OF ART II.

Prerequisite: HIS 102.

A survey of the principal forms of art created from the Gothic through the Modern and Contemporary eras. Three credits. (Spring)

ART 360. ART METHODS I.

Prerequisites: PSY 100, EDU 230.

A practicum to the study, design and development of pedagogical strategies, teaching materials, and lesson plan components with emphasis on the implementation of technology at all levels of teacher preparation. Prospective teachers examine the developmental stages as a source for the approbation of materials and the evaluation of creative, intellectual, perceptual and aesthetic components of the art activity. —*pre-school through sixth grade*; research and investigation of theories in child art and the history of art education. Three credits. (Fall)

ART 370. ART METHODS II.

Prerequisite: ART 360.

A study of pedagogical methods and procedures for curriculum development at the

middle grades and secondary education levels in art education. Particular attention to psychological and physiological growth as a reflection of adolescent behavior and as a precursor to the implementation of design elements and principles, art history, art appreciation, and studio activities. —*middle grades through high school*; preparation and development of a teaching philosophy and continued inquiry and studies in art education. Three credits. (Spring)

ART 371. PAINTING III.

Prerequisites: ART 221, 321.

This course gives the student an opportunity for an in-depth exploration of new and novel ways of pictorial expression that incorporate unconventional techniques and materials. Three credits. (Even Spring)

ART 381, 382, 383, 384. SELECTED TOPICS IN ART.

Selected topics in studio art. One, two, three, or four credits. (On demand)

ART 400. SENIOR PORTFOLIO.

The completion of a body of work that reflects on a particular creative problem in studio art or a thesis in art history or aesthetics. One credit. (Fall, Spring)

ART 401. ART THERAPY I.

Prerequisites: PSY 320, 330, ART 201, 211, 221, 225 and 360.

This course will discuss what children, adolescents, and adults communicate through their art, giving practical tools for assessing their intellectual and emotional development in non-verbal expression. Three credits. (Spring)

ART 421. DESIGN III.

Prerequisites: ART 201, ART 205, ART 301.

This course will involve a wide range of design problems with an emphasis on conceptual and technical elements as resolved with the use of digital imagery and computer technology. Students will study aspects of color psychology and explore digital color management as related to the impact of electronic color on design and illustration. Three credits. (Even Fall)

ART 441. HISTORY OF ART III.

Prerequisites: ART 341, 342, HIS 101, 102.

This course provides a survey of the Avant-Garde movements of the late nineteenth and early to mid-twentieth centuries, artistic manifestos, utopias, and the search for individuality. Three credits. (On demand)

ART 450. ART THERAPY II.

Prerequisites: ART 401

This course will provide a direct on-site therapist/client experience for the student in order to develop sequential strategies for art therapy. The course requires the student to spend 160 hours on-site. Three credits. (Fall)

ART 451. INTERNSHIP IN GRAPHIC DESIGN.

This course will enable students to gain practical experience in a professional work setting, assisting them to build their portfolio and providing the opportunity to gain valuable job references to be used with prospective employers, thus enhancing their marketability and job readiness. Three credits. Cross-listed with CSC 451. (Fall, Spring)

ART 499. SENIOR HONORS THESIS.

Intensive study or presentation of a particular visual art or education-related area, culminating in an honors thesis or project, approved and directed by an art faculty member and evaluated by a faculty committee. This area may be an in-depth review and interpretation of art literature or history, or a public presentation displaying advanced study and application of particular artistic techniques in a single medium or multiple media. Three credits. (Fall, Spring)

ASTRONOMY**AST 100. DESCRIPTIVE ASTRONOMY.**

Practical astronomy (time, motions, and positions), members of the solar system, stellar types and populations, galaxies, and cosmology. Three lecture hours and three laboratory hours per week. Four credits. (On demand)

AST 110. CONCEPTS OF ASTRONOMY.

An introduction to the science of astronomy, including study of the solar system stellar types, populations and stellar evolution, galaxies, and cosmology. Laboratory exercises will be concerned with positions and motions of celestial objects. One or two evening observation sessions will be required. Two lecture hours and two laboratory hours per week. Three credits. (Fall, Spring, Summer)

AST 200. ASTROPHYSICS.

Prerequisites: AST 100, PHY 122 or 203, MAT 166.

Content and outlook of modern astronomy and astrophysics. The solar system, stars, galaxies, and the universe. Three lecture hours and three laboratory hours per week. Four credits. (On demand)

AST 381, 382, 383, 384. SPECIAL TOPICS.

Prerequisite: Permission of the instructor.

Selected topics from observational and theoretical areas of astronomy. One, two, three, or four credits. (On demand)

BIOLOGY**BIO 105. PRINCIPLES OF BIOLOGY.**

Must be taken by all biological majors. The course emphasizes major biological concepts ranging from the molecular to the ecosystem level. The following principles are covered: basic chemical and physical laws, energy dynamics, genetics, ecology, evolution, cell structure and function, growth and development. Laboratory exercises and experiments demonstrate analytical and descriptive approaches to biology and involve the collection, organization, and interpretation of various types of biological data. Three lecture hours and three laboratory hours per week. Four credits. (Fall)

BIO 106. PRINCIPLES OF BIOLOGY.

Continuation of BIO 105. Must be taken by all biological majors. The course emphasizes major biological concepts ranging from the molecular to the ecosystem levels. The following principles are covered: basic chemical and physical laws, energy dynamics, genetics, ecology, evolution, cell structure and function, growth and development. Laboratory exercises and experiments demonstrate analytical and descriptive approaches to biology and involve the collection, organization, and

interpretation of various types of biological data. Three lecture hours and three laboratory hours per week. Four credits. (Spring)

BIO 110. CONCEPTS OF BIOLOGY.

A course designed for non-majors involving a study of the basic biological concepts common to living organisms. Particular consideration given to the physical and chemical laws governing life, cell structure and function and basic principles of genetics, photosynthesis, cellular respiration, reproduction, and evolutionary theory. Two lecture hours and two laboratory hours per week. Three credits. (Fall, Spring, Summer)

BIO 200. BIOLOGY SEMINAR.

Prerequisites: BIO 110 or BIO 105, 106 or permission of the instructor.

A seminar designed to expand the student's exposure to current scientific research. Researchers from nearby institutions will present seminars on various topics of biology. Students also will be required to present a one-half hour seminar and to critique one or more of the seminars given by an outside speaker. Each biology major is required to complete one credit. Course may be taken up to four times for a total of four credits. One credit. (Fall, Spring)

BIO 201. HEALTH CAREERS INTERNSHIP.

Prerequisites: BIO 105, 106 or permission of the instructor.

A minimum of five hours per week at Frye Regional Medical Center or Catawba Regional Medical Center including experience in each of the following areas: diagnostic (lab, x-ray, cardiac), general nursing care, operating room, rehabilitation, patient's point of view. Cannot be counted as credit toward a biology major. One credit. (Fall, Spring)

BIO 202. ADVANCED HEALTH CAREERS INTERNSHIP.

Prerequisite: BIO 201 or permission of instructor.

A minimum of five hours per week at Frye Regional Medical Center or Catawba Regional Medical Center, including either additional experience in one selected area covered in Health Careers Internship or experience in one of the following centers: heart, neuroscience, rehabilitation, orthopedic, or others by arrangement. Cannot be counted as credit toward a biology major. Course may be taken up to four times for a total of four credits. One credit. (Fall, Spring)

BIO 203. VERTEBRATE ZOOLOGY.

Prerequisites: BIO 105, 106 or permission of the instructor.

An investigation of various evolutionary adaptations and radiations among vertebrates with emphasis on comparison of form and structure as it relates to function. Three lecture hours and three laboratory hours per week. Four credits. (Fall)

BIO 212. BACTERIOLOGY.

Prerequisites: BIO 105, 106 and one year of college chemistry or permission of the instructor.

The morphology, physiology, development and genetics of bacteria. Identification, isolation and cultivation using standard laboratory procedures. Three lecture hours and four laboratory hours per week. Four credits. (Spring, Summer)

BIO 220. MICROBIOLOGY.

Prerequisites: BIO 110 or introductory biology lab course.

A course designed for nursing students to explore the basic biology of

microorganisms (bacteria, viruses, rickettsiae, protozoa and helminths). Included are: infectious diseases, host-pathogen relationships, and the immune response. Three lecture hours and three laboratory hours per week. Four credits. (Spring, Summer)

BIO 230. INVERTEBRATE ZOOLOGY.

Prerequisites: BIO 105, 106 or permission of the instructor.

Taxonomy, morphology, physiology, ecology, and evolution of the major phyla of invertebrate animals, including the insects. Living specimens are utilized where possible and field studies are encouraged. Three lecture hours and three laboratory hours per week. Four credits. (On demand)

BIO 237. BIODIVERSITY.

Prerequisite: BIO 110 or 106.

An examination of the variety and variability of life on earth and the interrelationships in ecosystems. The course will look at complex relationships between living and non-living aspects of the natural world. Topics include climatology and habitat diversity, taxonomic diversity, evolution and speciation, limiting factors, the impact of invasive species and requirements for biological conservation. Three lecture hours and three laboratory hours per week. Four credits. (Fall)

BIO 240. CELL BIOLOGY.

Prerequisites: BIO 105, 106 or permission of the instructor.

This course provides in-depth consideration of the close correlation between the structural and chemical basis of cellular organization and function. Emphasis is given to cellular components, cellular ultrastructure, cytological techniques, major cellular processes, and regulation of cellular structure and function. Current literature is utilized to emphasize recent research findings. Three lecture hours and three laboratory hours per week. Four credits. (Fall)

BIO 245. PLANT ANATOMY AND PHYSIOLOGY.

Prerequisites: BIO 105, 106 or permission of the instructor.

A course designed to introduce the biological science major to plant life through the study of evolution, life histories, anatomy, and physiology. Special emphasis will be placed upon the anatomy and physiology of the flowering plants. Three lecture hours and three laboratory hours per week. Four credits. (Spring)

BIO 250. HISTOLOGY.

Prerequisites: BIO 105, 106 or permission of the instructor.

A study of cells, tissues and their organization in living organisms. Laboratory work will include histological techniques. Three lecture hours and three laboratory hours per week. Four credits. (On demand)

BIO 260. NATURAL HISTORY AND FIELD BIOLOGY.

Prerequisites: BIO 105, 106 or permission of the instructor.

An investigation of selected groups of organisms, especially the vertebrates, as found in their natural habitats, including life cycles, adaptations, interactions with other organisms and evolutionary relationships. Field techniques of investigation will be emphasized. Three lecture hours and three laboratory hours per week. Four credits. (Odd Spring)

BIO 270. SYSTEMATIC BOTANY.

Prerequisites: BIO 105, 106 or permission of the instructor.

Identification and classification of native plants, especially seed-bearing plants;

observation and collection of specimen plants on organized field trips. Three lecture hours and three laboratory hours per week. Four credits. (Odd Fall)

BIO 281. HUMAN ANATOMY AND PHYSIOLOGY.

Prerequisite: Prior laboratory course in biology or chemistry.

Introductory survey course in human anatomy and physiology. Major topics covered include cellular structure and function, skeletal, muscle, nervous, special senses, and endocrine systems. Three lecture hours and three laboratory hours per week. Four credits. **NOTE:** Biology, pre-medical, medical technology, preforestry and biology teacher education majors may enroll in this course for elective credit only (i.e., credits will not count toward biology major). However, if both BIO 281 and BIO 282 are completed, four hours of credit can count toward the major. (Fall, Summer)

BIO 282. HUMAN ANATOMY AND PHYSIOLOGY.

Prerequisite: BIO 281 or permission of the instructor.

Continuation of BIO 281. A study of respiratory, circulatory, digestive, excretory, and reproductive systems. Three lecture hours and three laboratory hours per week. Four credits. **NOTE:** Biology, pre-medical, medical technology, pre-forestry, and biology teacher education majors may enroll in this course for elective credit only (i.e., credits will not count toward biology major). However, if both BIO 281 and BIO 282 are completed, four hours of credit can count toward the major. (Spring, Summer)

BIO 305. GENETICS.

Prerequisites: BIO 105, 106 or permission of the instructor.

Fundamental principles of heredity and variation in organisms. Additional emphasis is placed on recent developments in molecular, viral, and microbial genetics. Three lecture hours and three laboratory hours per week. Four credits. (Spring)

BIO 310. GENERAL ECOLOGY.

Prerequisites: BIO 105, 106 or permission of the instructor.

General principles relating to the dynamics of both aquatic and terrestrial ecosystems. Special emphasis on energy flow, mineral cycling, trophic organization, population dynamics, and community development. Three lecture hours and three laboratory hours per week. Four credits. (Fall)

BIO 320. ANIMAL PHYSIOLOGY.

Prerequisites: BIO 105, 106 or permission of the instructor.

Introduction to basic animal physiological mechanisms. The relationship of form and function will be discussed with special emphasis upon events at the cellular and molecular levels. Major organ systems will be covered in lecture and selected events in each system studied in laboratory sessions. Three lecture hours and three laboratory hours per week. Four credits. (Spring)

BIO 331. IMMUNOLOGY.

Prerequisites: BIO 105, 106, CHE 104, 104L.

Introduction to immunology and the immune response. Emphasis upon the induction and expression of cellular and humoral immunity by investigation of antigen and antibody structure, cellular interactions of the reticuloendothelial system, and a brief survey of immunopathology, including autoimmunity, allergic reactions and tumor immunology. Readings of classic papers and current literature in immunology research will be required. Three lecture hours and three laboratory hours per week. Four credits. (Fall)

BIO 360. DEVELOPMENTAL BIOLOGY.

Prerequisites: BIO 105, 106 or permission of the instructor.

An investigation of the morphological, biochemical, and genetic aspects of development and differentiation of living systems. Three lecture hours and three laboratory hours per week. Four credits. (On demand)

BIO 381, 382, 383, & 384. SPECIAL TOPICS IN BIOLOGY.

Prerequisites: BIO 105, 106 or permission of the instructor.

A course designed to provide an opportunity for an in-depth study of selected topics within the field of biological sciences. Topics may include the following: comparative animal physiology, parasitology, plant physiology, radiation biology, origin of life, cytogenetics, animal behavior, and nutrition. Topics and credit will be announced each time the course is offered. Course may be repeated with different topics. One to four credits. (On demand)

BIO 390, 391. HONORS TUTORIAL.

These courses will be taken by students invited to participate in the Biology Honors program during successive semesters of the junior year. Courses consist of conferences, seminars, readings, and assigned writings intended to develop critical perspectives on modern biological problems and to provide a breadth and sense of historical continuity in biological thought. One credit. (390 Fall, 391 Spring)

BIO 400. RESEARCH PROBLEMS.

Prerequisite: Sixteen credits of Biology or permission of the instructor.

A one semester research course open to all biology majors and required of all students seeking a B.S. degree in biology. Students will be expected to be involved in experimental design and laboratory research which will culminate in a written and oral presentation. Four credits. (Fall, Spring)

BIO 401. LAB INTERNSHIP.

Students will assist in and help set up, teach and take down introductory biology laboratories for one semester (approximately 10 labs, two hours each). They will develop a lesson and present it. They will learn to develop materials lists, to place orders for materials and will learn preparation techniques. May be repeated for credit. One credit. (Fall, Spring)

BIO 471, 472, & 473. BIOLOGY INTERNSHIP.

Field and/or laboratory experiences in the area of biological science such as a science museum, veterinarian practice, environmental laboratory or other approved activity. Does not count as credit toward the biology major. Three hours of activity per week is required for each credit. One to three credits. (On demand)

BIO 498, 499. SENIOR HONORS INVESTIGATION.

Prerequisites: BIO 390, 391.

These courses will be taken by Biology Honors students during successive semesters of the senior year. Independent research on a biological subject of interest to the student will be conducted under the guidance of a biology faculty member and a departmental committee. Upon completion of the research project, the student must prepare a written report of the investigation and pass an oral examination on the project administered by the departmental committee. May be used in place of BIO 400 as a major requirement. Three credits. (490 Fall, 491 Spring)

BUSINESS

BUS 100. INTRODUCTION TO BUSINESS.

A fundamental survey course designed to familiarize students with a broad overview of the relationships that exist among an organization's management, marketing, finance, production, and accounting functions. Open to freshmen or any other student who has not yet completed a course in accounting or management. Business 100 will not satisfy any business major curriculum requirement. Three credits. (Fall, Spring)

BUS 300. BUSINESS COMMUNICATIONS.

Prerequisites: ENG 231, CSC 175 Recommended.

The development of communication skills in a variety of business situations including business correspondence, business reports, research methodology, small group communication, oral presentations, and the employment process. Three credits. (Fall, Spring)

BUS 320. MANAGEMENT INFORMATION SYSTEMS.

Prerequisite: CSC 175.

A basic understanding of the principles related to management information systems and the impact of management information systems in the business environment. Emphasis is on decision making, the need for information, and the use of computer systems as a provider of the information. Three credits. (Fall, Spring)

BUS 340. BUSINESS MANAGEMENT.

An analysis of underlying theory and principles of business organization and management, including administrative methods and practices required for organizing, planning, directing, and controlling a business enterprise. Three credits. (Fall, Spring, Summer)

BUS 341. INVESTMENTS.

Prerequisites: ACC 231.

An examination of the principles underlying sound investment; a study of investment objectives, alternatives, risk, and the various investment media. Three credits. (Spring)

BUS 342. PERSONAL FINANCE.

This course focuses on the mind-set, tools, and techniques of managing money and the principles that middle class people could use to create wealth. Three credits.

BUS 344. BUSINESS FINANCE.

Prerequisites: ACC 231.

A study of the financial area from the standpoint of the business corporation. Consideration of both internal financial management and external relationships with money and capital markets, financial planning, sources of funds, classes and types of securities, and valuation of business. Three credits. (Fall, Spring, Summer)

BUS 345. HUMAN RESOURCE MANAGEMENT.

Prerequisite: BUS 340.

Concepts, principles, and practices in human resource management in business and industry. Emphasis is given to the role of the human resource administrator, the systematic use of scientific technique, and the impact of the human relations involved in the development of a sound personnel program. Three credits. (Fall)

BUS 346. BUSINESS STATISTICS.

Prerequisite: MAT 126 or 165.

Business and economic statistics, nature of statistics, statistical descriptions, statistical inference, time series, and variables. Three credits. (Fall, Spring)

BUS 349. MANAGING THE SMALL BUSINESS.

Prerequisites: ACC 231, 330, BUS 340, 360.

An emphasis on the aspects of management which are uniquely important to small business. Designed to develop an understanding of the environments within which small business survives, to provide an appropriate balance of business function and managerial function, and to translate managerial concepts and principles into practical application to the small business setting. Three credits. (Fall)

BUS 360. MARKETING.

Prerequisites: ECO 121 or 122.

A comprehensive survey covering marketing environment, consumer behavior, marketing planning, marketing mix, and the international market. Half of the semester is devoted to the marketing mix of product, place, price, and promotion. Three credits. (Fall, Spring, Summer)

BUS 362. SALES MANAGEMENT.

Prerequisite: BUS 360.

A study of buying behavior, the nature of personal selling, and the principles of effective selling, with emphasis on the professional qualifications and obligations of the salesman. Three credits. (Fall)

BUS 364. ADVERTISING.

Prerequisite: Bus 360.

A study of the concepts and application of principles of advertising, historical perspective, contemporary impact, types of advertising, media, effect on consumer behavior, and career possibilities. Three credits. (Spring)

BUS 366. SPORT MARKETING.

Prerequisite: Bus 360.

An examination of the issues of sport marketing, with special consideration given to market scanning, market analysis, and sponsoring planning in sports. All sport levels will be addressed, with special attention given to the collegiate and professional levels, including conference marketing campaign and promotions of the IOC, MLB, NHL, NBA, NFL, and NASCAR. Three credits. (Fall)

BUS 370. BUSINESS LAW I.

Principles of law which govern the daily conduct of business. The topics covered are contracts, sales contracts and commercial paper. Three credits. (Fall, Spring, Summer)

BUS 372. BUSINESS LAW II.

Topics covered include agency, bailments, carriers, partnerships, corporations, unfair competition, bankruptcy, secured transactions, property, trusts, mortgages, insurance, and wills. Three credits. (Spring, Summer)

BUS 380. BUSINESS ETHICS AND SOCIAL RESPONSIBILITY.

An examination of the ethical issues involved in business decision-making, the regulation of business, the responsibilities of business in dealing with human rights, the environment, and the consumer. Strategies for putting corporate responsibility into practice. Three credits. (Fall, Spring, Summer)

BUS 381, 382, 383, 384. SPECIAL TOPICS IN BUSINESS.

Prerequisite: Varies depending on topic.

Special investigation of selected areas of business not covered in other business courses. One, two, three, or four credits. (On demand)

BUS 439. ORGANIZATIONAL BEHAVIOR.

Prerequisite: BUS 340.

This course provides the student with a basic understanding of the fundamentals related to the application of human behavior principles in many types of organizations. Topics to be discussed include motivation, group dynamics, leadership, followership, and the manager as a change agent. Three credits. (Fall, Spring)

BUS 440. PRODUCTION AND OPERATIONS MANAGEMENT.

Prerequisites: BUS 340, 346.

The course seeks to develop skills needed by business managers to effectively coordinate the production and operations process. Such topics as product design, process planning, facility layout, and quality control will be introduced. Three credits. (Fall, Spring)

BUS 442. INTERNATIONAL BUSINESS.

Prerequisites: ACC 231, 330, BUS 340, 360, 344.

An introduction into the complex process of global business activities with special consideration given to environmental interactions, social/cultural constraints, political/legal issues, economic differences, accounting/financial problems, and marketing/management techniques. Three credits. (Spring)

BUS 450. BUSINESS POLICY.

Prerequisites: Senior status and BUS 340, 344, 360, or permission of the instructor.

This is a capstone course which seeks to present the skills necessary to evaluate business firms in their efforts to achieve objectives and establish effective operating practices. The course is most effective if taken near the conclusion of the major program. Three credits. (Fall, Spring, Summer)

BUS 451. MARKETING MANAGEMENT.

Prerequisites: BUS 340, 346, 360.

This course seeks to develop skills in analyzing complex marketing situations in dynamic business environments and devising the proper business strategies for guiding firms in such situations. Students analyze marketing objectives, programs, strategies, and decisions. Case studies and a business simulation (computer game) may be employed. Three credits. (Spring)

BUS 452. MARKETING RESEARCH.

Prerequisites: BUS 340, 346, 360.

A study of the research techniques used in marketing to make meaningful business decisions. Such topics as causal design, attitude measurement, data collection, and data analysis will be covered. Three credits. (Fall)

BUS 461, 462. INTERNSHIP IN BUSINESS.

Ten on-site work hours per week for one semester. Three credits. (On demand)

BUS 465, 466. INTERNSHIP IN BUSINESS.

Twenty on-site work hours per week for one semester. Six credits each. (On demand)

BUS 470. CO-OP PROGRAM IN BUSINESS.

Forty on-site work hours per week for one semester. Twelve credits. (On demand)

BUS 499. HONORS SEMINAR.

Honors seminar on individual research topic. Three credits.

CHEMISTRY

CHE 101. FUNDAMENTALS OF GENERAL AND INORGANIC CHEMISTRY.

A study of principles, laws, and theories which are basic to understanding chemical changes. Topics include atomic structure, periodic table, chemical bonding, nomenclature of compounds, solutions, acids and bases, chemical reactions and equilibrium, chemical kinetics, electrochemistry, nuclear chemistry, and properties of important metallic and nonmetallic elements and their compounds. Four credits. Three lecture and three laboratory hours per week. (Fall)

CHE 103. GENERAL CHEMISTRY AND QUALITATIVE ANALYSIS.

Corequisite: CHE 103L.

Fundamental principles and theories of chemistry and chemical calculations. Three lecture hours per week. Three credits. (Fall, Summer)

CHE 103L. GENERAL CHEMISTRY AND QUALITATIVE ANALYSIS LABORATORY.

Corequisite: CHE 103.

Three general chemistry laboratory hours per week. One credit. (Fall, Summer)

CHE 104. GENERAL CHEMISTRY AND QUALITATIVE ANALYSIS.

Corequisite: CHE 104L.

A continuation of 103, descriptive inorganic chemistry; fundamentals of qualitative analysis. Three lecture hours per week. Three credits. (Spring, Summer)

CHE 104L. GENERAL CHEMISTRY AND QUALITATIVE ANALYSIS LABORATORY.

Corequisite: CHE 104.

Three general chemistry laboratory hours per week. One credit. (Spring, Summer)

CHE 110. CONCEPTS OF CHEMISTRY.

A course designed for non-majors involving the study of the chemistry and laws governing chemical and physical changes in the world. A survey of origins, fundamentals, and trends underlying the science of chemistry in its interaction with the world. Three credits. Two lecture hours and two laboratory hours per week. **NOTE:** Chemistry 110 does not count toward chemistry or biology majors. (Fall, Spring, Summer)

CHE 201. ORGANIC CHEMISTRY.

Prerequisites: CHE 104, 104L; Corequisite: CHE 201L.

Nomenclature, stereochemistry, preparation, and reactions of organic compounds, with consideration of basic principles and reactions. Three lecture hours per week. Three credits. (Fall)

CHE 201L. ORGANIC CHEMISTRY LABORATORY.

Corequisite: CHE 201

Three organic chemistry laboratory hours per week. One credit. (Fall)

CHE 202. ORGANIC CHEMISTRY.

Prerequisites: CHE 201, 201L; Corequisite: CHE 202L.

A continuation of CHE 201, molecular and structural analysis; reaction types, reaction mechanisms, and organic synthesis. Three lecture hours per week. Three credits. (Spring)

CHE 202L. ORGANIC CHEMISTRY LABORATORY.

Corequisite: CHE 202.

Three organic chemistry laboratory hours per week. One credit. (Spring)

CHE 210. QUANTITATIVE ANALYSIS.

Prerequisites: CHE 104, 104L.

A study of analytical theories and methods, including basic techniques in unit operations. Treatment of analytical data, gravimetric, volumetric, and some colorimetric instrumental analysis. Two lecture hours and six laboratory hours per week. Four credits. (Fall)

CHE 303. PHYSICAL CHEMISTRY.

Prerequisites: CHE 104, 104L, MAT 165.

A study of the states of matter, chemical thermodynamics, chemical dynamics, surface phenomena, quantum theory, and atomic and molecular structure. Three lecture hours and three laboratory hours per week. Four credits. (Even Fall, Odd Spring)

CHE 304. PHYSICAL CHEMISTRY.

Prerequisite: CHE 303.

A continuation of CHE 303. Three lecture hours and three laboratory hours per week. Four credits. (Odd Fall)

CHE 310. INTRODUCTORY BIOCHEMISTRY.

Prerequisites: CHE 202, 202L; Corequisite CHE 310L.

A study of carbohydrates, lipids, proteins, nucleic acids, enzymes, and biological metabolism. Three lecture hours per week. Three credits. (Spring)

CHE 310L. INTRODUCTORY BIOCHEMISTRY LABORATORY.

Corequisite: CHE 310.

Three biochemistry laboratory hours per week. One credit. (Spring)

CHE 320. INSTRUMENTAL CHEMICAL ANALYSIS.

Prerequisite: CHE 210.

Chemical analysis with various optical methods, including the use of UV, IR and AA spectrophotometers, various electrochemical methods, radioactivity analysis, ion exchange, and gas and liquid chromatography. Two lecture hours and six laboratory hours per week. Four credits. (On demand)

CHE 381, 382, 383, 384. SPECIAL TOPICS.

Selected topics in the fields of analytical, inorganic, organic, physical chemistry, polymer chemistry or radiation chemistry, and other scientifically related topics. A seminar style course. By permission of the instructor. One to four credits. (On demand)

CHE 401. ADVANCED ORGANIC CHEMISTRY.

Prerequisites: CHE 202, 202L.

A mechanistic approach to modern synthetic organic chemistry. Identification of organic compounds by both classical and modern methods. Two lecture hours and six laboratory hours per week. Four credits. (Even Fall)

CHE 402. ADVANCED INORGANIC CHEMISTRY.

Prerequisites: CHE 104, 104L.

Atomic structure, chemical bonding, and molecular structure of inorganic compounds and their relationships to the periodic table and chemical properties. Special emphasis on coordination chemistry and elucidation of structure and bonding in compounds. Laboratory: inorganic synthesis emphasizing preparatory techniques. Three lecture hours and three laboratory hours per week. Four credits. (On demand)

CHE 460. INTERNSHIP IN CHEMISTRY.

Application of chemical principles during a supervised internship in a chemical research laboratory or workplace. Involves a minimum of ten on-site work hours per week or an equivalent time in summer. May be repeated, but only three credit hours may be taken as credit toward the chemistry major. By permission of the Chemistry Department. Three credits. (On demand)

CHE 470. SENIOR REVIEW.

An assessment of the four principal subject areas of chemistry: inorganic, analytical, organic and physical chemistry. The course also involves demonstration of proficiency in four major instruments. One credit. (Spring)

CHE 480, 481, & 482. RESEARCH PROBLEMS IN CHEMISTRY.

Open to seniors and qualified juniors in chemistry or related fields. Arrangements to be made by the department. One to three credits. (On demand)

CHE 498. SENIOR HONORS RESEARCH.

Open to those students invited to participate in the Chemistry Honors Program. Selected topics in the field of analytical, inorganic, organic, physical chemistry, polymer chemistry or radiation chemistry, and other scientific topics. A seminar style course. Two credits. (On demand)

CHE 499. SENIOR HONORS THESIS.

Open to those students invited to participate in the Chemistry Honors Program. Arrangements to be made by the department. Three credits. (On demand)

CLASSICS**CLA 210. CLASSICAL MYTHOLOGY.**

This course is an introduction to the myths of Greek and Roman literature and their ancient and modern visual representations. The focus will be on story elements and patterns, genealogy, pronunciation, Mediterranean geography, specialized features of analysis and composition, and developments in informed study and interpretation. Three credits.

CLA 331. GREEK LIFE AND THOUGHT.

A study of the development of Greek civilization. Focuses on the character and ideals of the Greeks as expressed in the arts and sciences, and in social, political, and cultural institutions. Three credits. (Odd Spring)

CLA 332. ROMAN LIFE AND THOUGHT.

A study of the development of Roman civilization. Focuses on the character and ideals of the Romans as expressed in the arts and sciences, and in social, political, and cultural institutions. Three credits. (Even Spring)

COMMUNICATION

COM 120. COMMUNICATION APPRECIATION.

(Must be taken in the first semester after declaring the Communication major.)
Survey course in the history, forms, practices, and influences of the mass media today. Emphasis is on the role of mass communication in developing the political, social, and economic fabrics of a democratic society. Some analysis of the social and legal responsibilities of the media. Four credits.

COM 142. ORAL COMMUNICATION.

A performance course in extemporaneous speaking; group discussion; oral reporting. Four credits.

COM 209. MEDIA WRITING I.

Prerequisite: ENG 131.

The course focuses on basic news writing and copy editing. Students will demonstrate an understanding of the nature of news and mastery of basic copy editing skills. Students will be able to write leads, press releases and simple feature stories following basic newspaper formats. Four credits.

COM 215. FIELD AND STUDIO PRODUCTION.

Prerequisite: COM 120.

An introduction to the basic aspects of all video productions, including the production of news for television newscasts. Students will learn the basics of reporting and editing for the electronic media, videotaping television news, how to operate as a member of a production crew, and basic operation of studio/remote equipment. Four credits. (Fall)

COM 230. ORGANIZATIONAL COMMUNICATION I.

Prerequisite: COM 120.

An exploration of theories of organizational communication that relate to internal and external communication flow, group process, team building, and conflict management. Four credits.

COM 250. WRITING FOR THE ELECTRONIC MEDIA.

Prerequisite: ENG 131, COM 209, 215.

A course focusing on the different formats and styles employed in the writing and scripting of a variety of electronic media outlets. Students will develop the skills to write scripts for television and radio commercials, public service announcements, news, drama, non-broadcast training videos, documentaries, and interactive multi-media. Four credits.

COM 320. MEDIA LAW.

Prerequisites: COM 120, PHI 116 or 217 or permission of the instructor.

Study of the laws affecting the communications industry in publishing and broadcasting, court interpretations of laws, and actions of federal regulatory agencies. Topics include freedom of the press, copyright, fairness doctrine, political communication, and libel. Four credits.

COM 329. FEATURE WRITING.

Prerequisites: COM 120 and 209.

Feature reporting has become a major part of journalistic practice. This type of reporting more closely examines the how and why of a story by focusing on interest

rather than timeliness or newsworthiness. Feature reporting includes news features, profiles, and human-interest stories for newspapers and magazines. Four credits.

COM 335. VIDEO DIRECTING.

Prerequisite: COM 120 and 215.

A laboratory class that examines the role of the director in the video process. Special emphasis is placed on studying the various techniques of film and television directors and working with actors and crew members. Four credits.

COM 340. NON-PROFIT PUBLIC RELATIONS.

Prerequisites: COM 120 and 209.

Discussion and practice in the writing of publicity for institutional, commercial, and social organizations. Preparation of materials for the print and electronic media. Four credits.

COM 350. MEDIA WRITING II.

Prerequisite: COM 209 and ENG 131.

Students will learn the basics of specialized reporting, how to provide publicity for various organizations, and how to write for electronic media, including television and the internet. Four credits.

COM 355. JUNIOR SEMINAR.

Prerequisites: COM 215, 230 or 350.

This course focuses on the materials and skills needed for a successful search in today's job market. Emphasis placed on writing of cover letters, resumes, and development of portfolios. Course will include lectures, discussion, and guest speakers. Two credits.

COM 370. EDITING AND DESIGN.

Prerequisites: COM 209 and CSC 220.

Advanced skills in newspaper editing, layout, and design are emphasized. Students will work with all aspects of the printed page, including graphics and photographs. Four credits.

COM 372. RESEARCH METHODS.

Prerequisites: COM 120 and 209.

An introduction to communication research methods, this course will focus on research design, data collection and analysis, measurement, sampling, interviews and focal groups. This course will also consider the social and ethical issues of communication research and introduce students to the theories that are the basis for such research. Quantitative, qualitative, and cultural studies research approaches will be considered. Four credits.

COM 381, 382, 383, 384. SPECIAL TOPICS.

This course focuses on a single, broad contemporary topic of interest in the communication fields. Course content varies from semester to semester and can be repeated. Topics to be considered will be announced in advance. One, two, three, or four credits.

COM 410. ADVANCED VIDEO PRODUCTION.

Prerequisite: COM 215.

An exploration of the various formats of broadcast and non-broadcast video production. Special emphasis will be placed on the role of the producer and the importance of preproduction planning. Lecture-laboratory course. Four credits.

COM 415. TELEVISION PERFORMANCE TECHNIQUE.

Prerequisite: COM 120 and 142.

An introductory course in the effective use of the body and voice for television performing. Emphasis on development of style and personality as it relates to various television performance roles. Four credits. Cross-listed with Theatre 415.

COM 440. ADVANCED REPORTING.

Prerequisite: COM 209.

An examination and exploration on in-depth, research-oriented reporting. Students will learn to use a variety of research sources including personal interviews, data bases, government documents and traditional library sources. Students will learn the requirements of investigative reporting and public service journalism. Four credits.

COM 455. INTERNSHIP.

Prerequisite: COM 355.

Applied skills experience in the professional field (off-campus) communication environment supervised by the faculty. Schedule of the experience will be established by the faculty member and the field-based supervisor. The faculty regularly checks the student's progress through conferences and review of the student's log. Two to four credits.

COM 460. SENIOR SEMINAR.

Prerequisites: All required courses in the major exclusive of COM 455.

This capstone course, required of all Communication majors, will examine the current state of today's media, including but not limited to issues such as management, the symbolic relationships that exist between the media and society, and the ethics involved in the industry. Students will call upon knowledge gained in previous Communication courses to undertake a project or research paper, with instructor approval. The culminating results will be presented at the end of the semester in both written and oral presentations. Four credits.

COM 499. SENIOR HONORS THESIS OR PROJECT.

Intensive study or presentation in a particular mass medium or related area, culminating in an honors thesis or project, approved and directed by a communication faculty member and evaluated by a faculty committee. This area may be an in-depth review and interpretation of literature in mass media issues and/or history or a project incorporating advanced study and application of particular professional techniques in a single medium or multiple media. Four credits.

CONSERVATION OF NATURAL RESOURCES

CNR 120. INTRODUCTION TO CONSERVATION OF NATURAL RESOURCES.

This interdisciplinary gateway course, required for all Conservation of Natural Resources majors, features a case study approach to focus on the human relationships with and impact on the environment and our natural resources. The course will examine some of the environmental and conservation problems. The causes of problems, methods for investigating problems and possible solutions to problems will be examined from a scientific and public policy perspective. Lecture, laboratory and case study. Four credits. (Spring) This course also fulfill the SCI 300 core curriculum requirement.

CNR 225. ENVIRONMENTAL MONITORING.

Prerequisites: BIO 110 or 106; CNR 120; EAR 110.

A survey of the physical, chemical, and biological methods used to measure natural systems and to detect, measure and manage contaminants in natural and anthropological environments. Particular attention will be given to exposure and associated impacts (including health risks) in natural and human environments. Three lecture hours and three laboratory hours per week. Four credits. (Spring)

CNR 325. LANDSCAPE ANALYSIS.

Prerequisites: EAR 110; MAT 215, 129 or 165; Computer Competency.

An introduction to theoretical and practical techniques for addressing environmental issues. This course will consist of the study of a variety of landscapes and their underlying geological structure including the hydrology of those structures. Hands-on problem solving using geographic information systems (GIS), global positioning systems (GPS), mobile GIS and high definition digital imaging technologies will be studied as a way to enhance traditional field analyses of the landscape. The course will include sampling strategies and methods using a variety of traditional and digital data sources. These techniques will be related to an overall approach to land use and conservation issues. Three lecture hours and three laboratory hours per week. Four credits. (Fall)

CNR 370. ENVIRONMENTAL MANAGEMENT.

Prerequisites: CNR 225; ECO 262.

An examination of optimal available techniques for managing air, water, soil, waste and biological resources. The course will involve compilation, analysis and processing of environmental data in order to determine ways to mitigate undesirable environmental outcomes. Three credits. (Spring)

CNR 470. PROBLEMS IN CONSERVATION OF NATURAL RESOURCES.

Prerequisites: Senior standing as a Conservation of Natural Resources major.

This capstone course, required of all Conservation of Natural Resources majors, will investigate causes of and solutions to selected environmental problems. The object of the course is to teach students how to approach and analyze a problem, how to develop a work plan, and determine what is necessary to successfully implement the plan. Using lecture, discussion, field study, and methods and tools learned in previous courses, students will engage in a group research project to learn methods used by private firms and governmental agencies to investigate and solve environmental and conservation problems. The research project will culminate in a written and oral presentation. Four-six credits. (Senior Year)

COMPUTING SCIENCES**CSC 115. PERSPECTIVES ON TECHNOLOGY.**

This course covers the relationships between the individual, society, and technologies. It will include such topics as the legal, moral, and ethical ramifications of technology use including security, privacy, health concerns, web use, and intellectual property. Students will write a paper on a selected topic from the course and present it to the class. One credit. (Fall, Spring, Summer)

CSC 116. OVERVIEW OF COMPUTING DISCIPLINES

Designed as the first course for all computer science and information technology

majors. The course presents and overview of the major computing disciplines, including focus of the work of each discipline, the potential jobs available to graduates in each field, and the Lenoir-Rhyne requirements for each. Faculty members from each of the computing disciplines will present examples of the content of the discipline and will discuss the opportunities available to those with the various degrees, from graduate school to the work force. Cannot be used for L-R core credit. One credit. (Fall)

CSC 120. INTRODUCTION TO THE COMPUTING SCIENCES.

Designed as the first course for computing majors. This course investigates basic digital logic paradigms and digital systems, machine level representation of data, exploration of language translation, algorithms and problem solving. The history of computing is included. Included are the software development process, algorithm development, how a computer works, the use of editors and linkers in programming, programming language structure, fundamentals of binary arithmetic and machine storage. Two credits. (Fall)

CSC 130. EVENT-DRIVEN PROGRAMMING.

An introduction to event-driven programming using VISUAL BASIC.Net. Designed to produce competence with the programming language BASIC and to enable the student to write useful Windows application programs. The .Net Framework will be discussed. Large project required. Two credits. (On demand)

CSC 132. INTRODUCTION TO C/C++ PROGRAMMING.

An introduction to beginning level programming using the C and C++ languages. Includes an introduction to object-oriented design and programming techniques. Two credits. (On demand)

CSC 134. INTRODUCTION TO JAVA PROGRAMMING.

An introduction to introductory level programming using the Java language. Includes an introduction to object-oriented design and programming techniques. Two credits. (Fall)

CSC 136. SCIENTIFIC PROGRAMMING.

This course will provide the science majors a gentle introduction to using a programming language such as FORTRAN, C++ or Java to implement scientific algorithms. Two credits. (On demand)

CSC 150. PROGRAMMING FUNDAMENTALS.

Prerequisite: CSC 120 with a grade of C or better.

A rigorous introduction to a disciplined approach to fundamental programming constructs, fundamental data structures, algorithm and problem-solving development using Ada 2005. It lays the foundation of the discipline of computer science. Includes a combination of lectures and laboratory work. Four credits. (Spring)

CSC 175. INFORMATION TECHNOLOGY.

This course provides literacy in computers and information systems. It will supply a knowledge of productivity software packages, computer systems hardware, and computer systems software. As an introductory computer course it is designed to provide a brief study of computer applications. The course enables students to improve their skills as knowledge workers through effective and efficient use of packaged software. The emphasis is on productivity concepts and how to achieve them through functions and features in computer software. Design and development

of solutions focus on small systems. Topics will include knowledge work productivity concepts; software functionality to support personal and group productivity; organization and management of software and data; accessing organization data, accessing external data; selecting a computer solution; developing a macro program by doing; designing and implementing a user interface; developing a solution using database software; refining and extending individual and group information management. Lecture and laboratory. Four credits. (Fall, Spring, Summer)

CSC 210. ETHICAL ISSUES IN INFORMATION TECHNOLOGY.

This course provides a seminar environment to discuss the ethical issues that face the computing science disciplines in a structure that addresses current ethical issues within traditional ethical thought. It uses current case studies to stimulate discussion. The social context of computing will be explored as well as professional and ethical responsibilities. Risks and liabilities of computer-based systems will be explored. Computer crime and privacy issues will be discussed. Each student is required to give a 30-minute workshop on a topic appropriate to the class. Students will be expected to weigh these issues and develop guidelines for professionals in the field. Four credits. (Fall)

CSC 220. WEB AND NET-CENTRIC DESIGN.

This course will introduce design concepts for creating sites on the World Wide Web. Students will review technologies currently used to support web-based applications and build web applications. Students will develop their web pages using HTML, web page design tools, and design guidelines. Four credits. (Spring)

CSC 250. FUNDAMENTALS OF DATA ABSTRACTION.

Prerequisite: CSC 150 with a grade of C or better.

A continuation of a disciplined programming approach using Ada 2005. Students will learn data abstraction and implementation using linked lists, stacks, queues, graphs, and trees. They will perform algorithmic analysis on problems that use recursion, searching (including hashing), and sorting techniques. Four credits. (Fall)

CSC 260. ADVANCED ALGORITHMS.

Prerequisites: CSC 250 with a grade of C or better, and MAT 200.

Students will design, implement, and analyze algorithms. Various algorithmic strategies will be explored. Two credits. (Odd Spring)

CSC 280. LANGUAGE DESIGN AND IMPLEMENTATION.

Prerequisites: CSC 250.

Formal study of programming languages and their features. Basic computability and automata theory will be studied. Language design and implementation issues are compared and contrasted with an emphasis on familiar and/ or important high-level languages such as FORTRAN, BASIC, COBOL, Pascal, Modula-2, Java, Ada, C/C++, LISP, Scheme, and Prolog. Topics include assembly language programming, language translation systems, type systems and structures, control structures, subprograms, generics, exception handling and concurrency, as well as a comparison of the imperative, functional, logic, and object-oriented language paradigms. Four credits. (Odd Fall)

CSC 291. INTRODUCTION TO ERP SYSTEMS.

This is a course that focuses on the concepts of enterprise resource planning systems and gives an overview of the SAP R/3 landscape including sales and

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distribution (SD), materials management (MM) and finance and costs (FI-CO). Students will examine the system components of these areas and also be exposed to the core architecture behind the R/3 system. As part of the class, students are expected to complete one term paper; they will also complete a team project consisting of configuring parts of a sales subject (billing, orders or deliveries) based on provided business requirements. Upon completing the class, students will have obtained hands-on experience in SAP R/3 and basic knowledge on how ERP systems work in a large organization. Three credits. (On demand)

CSC 292. CUSTOMIZED REPORTING AND DECISION SUPPORT.

This is a course that focuses on the decision support architecture of SAP NetWeaver. The course will examine each of the components of NetWeaver in a cursory manner and focus most of the time on the SAP Business Information Warehouse component of the tool set. The participants will complete a team project in building standard operational data stores (ODS), infocubes, data extracts, web based queries and web templates for reporting. Upon completing the course students will have hands-on knowledge of the SAP NetWeaver tool set as well as fundamental knowledge of enterprise data warehouses, decision models, reporting systems and web based delivery tools in the ERP area. Three credits. (On demand)

CSC 310. COMPUTER ORGANIZATION.

Prerequisite: CSC 150 with a grade of C- or better.

An introduction to the assembly level machine organization and machine level representation of data. Memory organization and architecture will be discussed. Multiprocessing and alternative architectures will be explored. Two credits. (Odd Fall)

CSC 312. OPERATING SYSTEMS.

Prerequisite: CSC 310.

The fundamental principles of Operating Systems will be disseminated and implemented: concurrency, scheduling algorithms, memory management, device management, and file systems. An assembly language will be taught and students will write a simulated operating system. Two credits. (Even Spring)

CSC 330. OBJECT-ORIENTED PROGRAMMING.

Prerequisites: CSC 120 and 134, with grades of C or better.

Presents a study of the object-oriented programming paradigm. The principal language used will be Java with some discussion of other object-oriented languages including Smalltalk, C++ and, Ada 2005. Fundamental techniques of graphics systems will be introduced. Several programming projects will be required. Four credits. (Spring)

CSC 350. DATABASE MANAGEMENT.

Prerequisites: CSC 150 or 175.

An introduction to database concepts. The course will study information models and systems, primarily database systems. Data representation, physical schema, and subschema will be explored. Hierarchical, network, and relational and object-oriented models will be evaluated. The relational models and object-oriented models will be explored in depth. Distributed computing, transaction processing, and query languages will be discussed. Students will implement a database using 4GL and will follow rigorous software engineering techniques. Strong software project management techniques will be followed. The system will include both external and internal documentation requirements. A large team project is required. Four credits. (Even Fall)

CSC 365. WEB AND NET-CENTRIC COMPUTING.

Prerequisites: CSC 220 and any programming language.

This course will introduce programming techniques for the World Wide Web. The course will explore technologies currently used to support web-based applications from the client-side to server side including database access. Topics will include JavaScript, Java applets, VBScript, CGI, ASP, Dynamic HTML, XML, and database access. Development of a web site will be required. Four credits. (Fall)

CSC 380. INFORMATION AND DECISION SUPPORT SYSTEMS.

Prerequisites: CSC 350.

Introduces students to basic concepts and techniques on a range of issues in computer science, including database systems, artificial intelligence, human-computer interaction, multimedia system, and data communication. Topics include knowledge representation, natural language understanding, foundations of human-computer interaction, fundamental issues in intelligent systems, search and constraint satisfaction, information models and systems, database systems, data modeling, relational databases, multimedia information and systems. Four credits. (Odd Fall)

CSC 381, 382, 383, 384. SPECIAL TOPICS.

Prerequisite: Sophomore standing in Computer Sciences.

A topics course in Computer Science. Topics may be chosen from compiler design, intensive programming, non-procedural languages, ethics, technical writing, etc. May be repeated with a different topic. One, two, three, or four credits. (On demand)

CSC 390. ERP PROJECT MANAGEMENT AND ENTERPRISE ARCHITECTURES.

This is a concept course for future project managers and data architects who want to be involved in the management, development or implementation of ERP solutions. The course covers the fundamental development methodology of SAP-ASAP, extreme programming (XP), Rapid Application development (RAD) and Joint application design (JAD). The course focuses particularly on the project management approaches of SAP and the development approaches and best-of-breed system architectures of ERP implementation at actual company sites (case studies). As part of the class, students are expected to complete a self selected case study for examining the lessons learned of a large implementation of an ERP system. Upon completing the course, students will have obtained the core skills for working as a team lead on a large ERP implementation, or as the project manager of mid-sized ERP projects. Two credits. (On demand)

CSC 400. SYSTEMS ANALYSIS AND SOFTWARE ENGINEERING.

Prerequisites: CSC 150, 250, and Senior Standing.

Presents software engineering techniques as they relate to development of a software product. Students will be introduced to the software design process, software tools and environments, software processes, and software evolution. Teams will work to design a set of requirements and specifications for a "real-world" project. Strong project management skills will be expected. Database systems and modeling of these systems will be practiced. The foundations of human-computer interaction will be discussed in depth. Such topics as software life cycle, requirements analysis, software plan, and documentation techniques will be discussed. Students will learn a CASE tool. A large team project will be required. Four credits. (Odd Fall)

CSC 434. COMPUTER SECURITY AND NETWORKING.

Prerequisite: CSC 250 or CSC 330.

This course will cover the major topics of network architectures, network

communication, and fundamentals of computer and network security, including basic cryptographic techniques and their applications to computer security. Topics will include the ISO 7-layer reference model in general and its instantiation in TCP/IP, internetworking and routing, public-key and public-key cryptography, authentication, key management, digital signatures, network management issues, use of passwords and access control mechanisms, firewalls, and quality of service issues. 4 credits. (Even Spring)

CSC 450. INTERNSHIP IN COMPUTER SCIENCE.

Prerequisite: Major in Computing Sciences.

Requires 150 on-site work hours per semester. May be repeated up to eight credits. Course is graded satisfactory/unsatisfactory. Four credits. (Fall, Spring, Summer)

CSC 460. CAPSTONE PROJECT.

Prerequisites: CSC 400 with a grade of C or better and senior standing.

Students will implement a professional level software product independently in groups. A Graphical User Interface will be built. Software Project Management will be continued. Validation and verification techniques will be explored and implemented. Legal issues associated with software development will be discussed including risks and liabilities of computer-based systems, privacy and civil liberties, intellectual property laws, and economic issues in computing. Professional and ethical responsibilities will be discussed. The primary work of the students is in the implementation of a software product and the process that occurs with customers. Students must provide a User's Guide, Technical Manual, and a working software system for the product. Four credits. (Even Spring)

CSC 498. SENIOR HONORS RESEARCH.

Students will develop an approved proposal for their honors thesis, with supporting literature review. Two credits. (On demand)

CSC 499. HONORS RESEARCH THESIS.

Written thesis on original work in the Computing Sciences. It must be defended orally before a panel of faculty. Four credits. (On demand)

DANCE

DAN 101. RECREATIONAL DANCE.

Techniques and theory in ethnic, social and country and western dance. One credit. (On demand)

DAN 102. BEGINNING BALLET AND MODERN DANCE.

An introduction to the skills and techniques of ballet and modern dance. Two credits. (On demand)

DAN 103. BEGINNING TAP AND JAZZ.

Prerequisite: DAN 102 or permission of the Instructor.

A continuation of skill and technique development in ballet and modern dance featuring intensified barre work. Two credits. (On demand)

DAN 104. INTERMEDIATE BALLET AND MODERN DANCE.

Prerequisite: DAN 102 or permission of the Instructor.

A continuation of skill and technique development in ballet and modern dance featuring intensified barre work. Two credits. (On demand)

DAN 105. INTERMEDIATE TAP AND JAZZ.

Prerequisite: DAN 102 or permission of the Instructor.

A continuation of skill and technique development in tap and jazz with emphasis on intensity of patterns and choreography. Two credits. (On demand)

DAN 106. ADVANCED BALLET.

An in-depth study of the techniques of ballet that move the student from the intermediate skill level to a more advanced skill level. Special emphasis will be placed on pointe. Two credits. (On demand)

DAN 107. ADVANCED MODERN DANCE.

An in-depth study of the techniques of modern dance that move the student from the intermediate skill level to a more advanced skill level. Special emphasis will be placed on style and composition. Two credits. (On demand)

DAN 201. DANCE METHODS.

Methods, materials and techniques of teaching dance education K-12. One credit. (On demand)

DAN 202. CREATIVE DANCE FOR CHILDREN.

Prerequisite: DAN 201 or permission of the Instructor.

An introduction to the creative ideas in children and the expression of these ideas through movement and dance. Emphasis is placed on working with students in a school setting. Three credits. (On demand)

DAN 203. CHOREOGRAPHY.

Prerequisites: DAN 106, 107 or permission of the Instructor.

An introduction to the theories and techniques of dance composition. Three credits. (On demand)

DAN 204. DANCE APPRECIATION.

An analysis of the development of dance through the ages with special emphasis on the relationship of dance to other art forms. Three credits. (On demand)

EARTH SCIENCE

EAR 110. PHYSICAL GEOLOGY.

An introduction to the science of physical geology, including the study of earth materials (minerals and rocks), the forces which act on and within the earth, the major types of land forms found on the earth, structural geology, and the theory of plate tectonics. Two lecture hours and two laboratory hours per week. Three credits. (Fall, Spring, Summer)

EAR 202. HISTORICAL GEOLOGY.

Physical and biological history of the earth, geological eras, geologic and structural maps. Three lecture hours and two hours laboratory per week. Four credits. (On demand)

EAR 210. CLIMATOLOGY AND METEOROLOGY.

Prerequisite: A physical science course at the 100 level.

An introduction to the study of the dynamics of the earth's atmosphere, including the basic factors governing weather and climate. Topics include atmospheric structure, weather variable, energy flow in the atmosphere, dynamics of gas laws,

clouds and precipitation, mid-latitude fronts, severe weather, climate zones, and changing climates. Three credits. (E-Spring)

EAR 220. MINERALS AND ROCKS.

Atoms, crystals, chemical and physical aspects of minerals; classification of minerals, igneous, sedimentary and metamorphic processes and the classification of rocks. Mining and quarrying. Three lecture hours and two hour laboratory per week. Four credits. (On demand)

EAR 240. MAP CONSTRUCTION AND READING.

Prerequisites: EAR 110, 202.

Map projections, coordinates and azimuths; scales and measurements; map symbols; relief and profile orientation; aerial photographs. Three credits. (E-Fall)

EAR 381, 382, 383, 384. SPECIAL TOPICS.

Prerequisite: Permission of the instructor.

Selected topics from physical geology, historical geology, meteorology, etc. One, two, three, or four credits. (On demand)

ECONOMICS

ECO 121. PRINCIPLES OF ECONOMICS, MACROECONOMICS.

A study in the foundations of economic analysis, national income accounting, economic growth and the public sector, with emphasis on macroeconomics. Three credits. (Fall, Summer)

ECO 122. PRINCIPLES OF ECONOMICS, MICROECONOMICS.

A study of markets, the price system and allocation of resources, distribution of income, international economy, and perspectives on economic change, with emphasis on microeconomics. Three credits. (Fall, Spring , Summer)

ECO 221. HISTORY OF ECONOMIC THOUGHT.

Origin, development, and meaning of current problems and conflicts in economic theory; mercantilist, classical and neoclassical economics to Keynesian and post-Keynesian economics; modern economic thinking and practice. Three credits. (Fall)

ECO 262. ECONOMICS OF THE ENVIRONMENT.

Prerequisite: ECO 122.

An introduction to the use of economic analysis to explain the underlying causes of environmental and resource conservation problems. Policy options for the allocation of renewable and exhaustible resources, response to pollution, and toxic substance control and pursuit of sustainable development will be introduced. Three credits. (Fall)

ECO 310. COMPARATIVE ECONOMIC SYSTEMS.

Prerequisites: ECO 121, 122 or permission of the instructor.

A study of the organization, operation, and performance of economic systems, both in theory and in practice. Models of the market economy and of regulated capitalism are presented. This is intended to broaden the view of the student who is familiar primarily with the U.S. economy. The prototypical Command System is given some consideration to enhance the student's understanding of a centrally planned economy as opposed to the variants of capitalistic market economies. Three credits. (On demand)

ECO 321. LABOR PROBLEMS.*Prerequisites: ECO 121, 122.*

Problems inherent in labor's attempts to adjust to modern industrialization; origin, development, structure and objectives of labor organization; relationships of labor to the process of production and to society; relationships of the long-run group interest. Three credits. (E-Fall)

ECO 322. GOVERNMENT AND BUSINESS.*Prerequisites: ECO 121, 122.*

How business and economic life are influenced and directed by governmental policy and decision; constitutional provision; antitrust laws, public utility regulations conservation of natural resources, tariffs and subsidies; public-private, institutional-individual conflicts of interest and responsibility. Three credits. (Odd Fall)

ECO 323. INTERMEDIATE PRICE ANALYSIS.*Prerequisites: ECO 121, 122.*

Resource allocation under various forms of market organization; theory of consumer behavior; theory of the firm; prices of the factors of production. Three credits. (Fall)

ECO 324. INTERMEDIATE MACRO-ECONOMIC THEORY.*Prerequisites: ECO 121, 122.*

An intensive examination of factors determining the national income. The economic and social effects of the level, composition, and distribution of national income will be studied with reference to theories of economic welfare and to public policy. Three credits. (Spring)

ECO 325. MONEY AND BANKING.*Prerequisites: ECO 121, 122.*

Monetary theory; structure and effects of commercial banking and central banking systems; scope, instruments, and impact of monetary and fiscal policy. Three credits. (Fall)

ECO 346. ECONOMIC STATISTICS.*Prerequisite: MAT 126 or 165.*

Economic and business statistics; nature of statistics, statistical description, statistical inference, time series, and variables. Three credits. Cross listed with Business 346. (On demand)

ECO 355. WOMEN AND THE ECONOMY.

This course uses basic microeconomic concepts to examine the enormous changes in women's lives in recent decades. Topics covered include later marriage, decline in fertility, weakened link between marriage and fertility, increased labor force participation, and the gender gap in earnings. Public policies related to these issues will be examined. Three credits.

ECO 362. ECONOMIC ASSESSMENT OF THE ENVIRONMENT.*Prerequisite: ECO 262.*

This course examines how economic value applies to the conservation of natural resources. National income accounting and natural capital, cost-benefit analysis, cost-effectiveness analysis, and impact analysis will be developed along with an understanding of how they are used by policymakers. Three credits.

ECO 381, 382, 383, 384. SPECIAL TOPICS

Prerequisites: ECO 121, 122 and permission of instructor.

A study of topics in economics not covered in other courses, such as economics geography, industrial organization, and transportation economics. May be repeated each time the topic changes. One, two, three, or four credits. (Spring)

ECO 420. INTERNATIONAL TRADE.

Prerequisite: ECO 323.

A study of international trade. Topics include the theory of international trade and price relationships, international factor flows, government interference with trade and factor flows, and preferential trading arrangements. Three credits. (Fall)

ECO 422. INTERNATIONAL FINANCE.

Prerequisite: ECO 420.

A study of international finance. Topics include balance of payments, foreign exchange markets and rates, purchasing power parity and international monetary arrangements. Three credits. (Spring)

ECO 423. PUBLIC FINANCE.

A survey of the theories and practices of governmental taxing, spending, borrowing, including intergovernmental relationships and administrative practices and problems. Three credits. (Spring)

ECO 424. CONTEMPORARY PROBLEMS OF THE DEVELOPING AREAS.

Theories of economic development. Special attention given to population-resources ratios, industrial and agricultural balance, dynamic sectorial imbalances, problems of capital formation, foreign trade, and the possible roles of government, business, labor, foreign aid, and multinational organizations in promoting development. Three credits. (Even Spring)

ECO 446. ECONOMETRICS.

Prerequisites: ECO 121, 122, MAT 126 or higher.

An introduction to basic econometric techniques with an emphasis on applications. Three credits. (On demand)

ECO 451. INTERNSHIP IN ECONOMICS.

Prerequisite: Department invitation.

Minimum of ten on-site work hours per week for one semester with an agency or office of local, state or national government, a profit or non-profit institution, or a political interest group. Three credits. May be repeated once. (On demand)

ECO 492. SENIOR HONORS RESEARCH.

Prerequisite: Department invitation.

Includes conferences with instructors, readings in journals, and knowledge of new literature in the field. Three credits. (On demand)

ECO 499. SENIOR HONORS THESIS.

Prerequisite: Department invitation.

Independent study and research. Honors paper or project directed by a member of the department. Oral presentation of the paper. Three credits. (On demand)

EDUCATION

NOTE: Due to curriculum revision selected courses will be piloted as EDU 383/384 “special topics” and may be substituted with the permission of the School of Education and the Registrar.

EDU 201. HISTORICAL/PHILOSOPHICAL/SOCIOLOGICAL FOUNDATIONS OF EDUCATION.

Minimum grade of “C” required for education majors. No transfer credits allowed.

An introductory course to the Education major and the American public school and its historical background, organization and administration; trends and issues; philosophies of education and their applications. Materials and learning situations usually covered in courses designated as history of education, philosophy of education, and educational sociology receive attention here. Students are required to begin their developing portfolio, based on the conceptual framework of the Reflective Practitioner. A guided, ten-hour field experience in a minimum of two settings (elementary, middle grades, secondary) is also required. Three credits.

EDU 207. CHILDREN’S LITERATURE.

Minimum grade of “C” required for education majors.

A study of children’s literature as a basis for the selection and production of literacy or story material for children in grades K-6. Examination of the field of children’s literature and related curriculum to discover, select and implement literacy reading which satisfies educational requirements. Three credits.

EDU 210. THEORIES AND PRINCIPLES OF SECOND LANGUAGE ACQUISITION.

Prerequisite: Experience in second language learning.

Minimum grade of “C” required for education majors.

Introduction to the major approaches and methods in TESL; learner strategies and speech styles, key issues in research, sociocultural and personality factors which affect second language learning. Laboratory required. Three credits.

EDU 211. INTRODUCTION TO APPROACHES & METHODS IN TESL (K-12).

Prerequisite: Permission of the instructor.

Minimum grade of “C” required for education majors.

Introduction to the major 20th century trends in language teaching; approaches and methods for teaching the skills of listening, conversation, reading, and writing; classroom management and materials. Laboratory required. Three credits.

EDU 212. LINGUISTICS.

Prerequisite: Permission of the instructor

Minimum grade of “C” required for education majors.

Overview of how language evolves and how it works. The learner will understand ways in which speakers achieve linguistic competence and methods linguists use to analyze language. Three credits.

EDU 215. FAMILY-SCHOOL-COMMUNITY RELATIONSHIPS.

Minimum grade of “C” required for education majors.

Instruction in developing beneficial relationships between parents and the schools, and in becoming aware of community resources available for both the schools and families. Field Experience: A funds of knowledge project required. Three credits.

EDU 219. PRACTICUM IN ELL LITERACY DEVELOPMENT.

This course provides students with an opportunity to design a literacy plan for a target group of English language learners from diverse educational, ethnic and linguistic backgrounds. And, it provides a direct instructional experience for students as they implement the plan and reflect on its effectiveness. One credit.

EDU 220. CHILD AND ADOLESCENT DEVELOPMENT.

Prerequisite: PSY 100.

Minimum grade of "C" required for education majors.

A concentrated focus on contemporary theories, research, approaches, and methods of the study of child development from conception through adolescence. Study of typical and atypical development and its impact upon the total person. Emphasis on the role of the family, peers, and school. Three credits.

EDU 225. PRACTICUM IN ELL SHELTERED INSTRUCTION.

This course provides students with a research-based effective model (Sheltered Instruction Observation Protocol) for intermediate language learners at all levels of K-12. Student will design and implement a lesson for a target population in one of the local school systems. One credit.

EDU 230. EDUCATIONAL PSYCHOLOGY.

Prerequisite: PSY 100; EDU 201.

Minimum grade of "C" required for education majors. No transfer credits allowed.

As a basis for planning, learning and reflective practice, this course covers the principles and technology involved in learning and teaching. Skills, verbal learning, cognitive processes, motivation, emotional behavior, individual differences, assessment. Psychological aspects of student-teacher interaction. Students are required to continue their developing portfolio based on the School's Conceptual Framework of the Reflective Practitioner. A once a week field experience of tutoring students in a socioeconomic and ethnically diverse setting is required. Three credits.

EDU 239. LITERATURE FOR ADOLESCENTS.

Minimum grade of "C" required for education majors.

A study of literature and library media appropriate for the adolescent reader in terms of lifestyle, needs, and aspirations. (No prerequisite; intended for prospective middle school as well as high school teachers.) Three credits.

EDU 245. PHONICS AND WRITING.

Minimum grade of "C" required for education majors.

Use of phonics and basic word analysis skills in reading instruction. Purposes, limitations, and concrete practices of phonics instruction. In-depth study of word attack and word analysis skills. Students will work through various types of writing as well as the writing process. Three credits.

EDU 256. INTEGRATED ELEMENTARY VISUAL & PERFORMING ARTS EDUCATION METHODS.

Curriculum and methods for the regular elementary classroom teacher to use the visual and performing arts (music, art, dance, and drama) within the regular K-6 classroom and curriculum. Three credits.

EDU 262. BIRTH—KINDERGARTEN DEVELOPMENTAL CURRICULUM.

Minimum grade of "C" required for education majors.

Planning and implementing activities across the curriculum for infants through

kindergarten (both typical and atypical). Instruction in integrated and holistic curriculum, evaluating the appropriateness of curriculum guides, and developing original curricula. Observation of curriculum in action in infant/toddler and preschool/kindergarten required. Three credits.

EDU 264. FAMILY DIVERSITY, INVOLVEMENT AND PARTNERSHIP.

Minimum grade of "C" required for education majors.

Maintaining cooperation between the home and pre-school setting by applying knowledge of families and family dynamics, developing effective means to include the parent in the education of the typical or atypical child, and enhancing the quality of life for the young child. Attendance at 5-7, IEP, IFSP, ICC, transition meetings. Three credits.

ENROLLMENT IN COURSES NUMBERED 300 OR ABOVE REQUIRES ADMISSION TO TEACHER EDUCATION

EDU 302. SEMINAR IN TEACHING ENGLISH AS A SECOND LANGUAGE.

Prerequisites: EDU 210, 211, 212, 213, 214.

Minimum grade of "C" required for education majors.

Current issues related to ESL curriculum, methodologies, pedagogy; observation of ESL learners at K-12 and adult levels; supervised teaching and post-instruction of discussions. Two credits.

EDU 309. ADVANCED METHODS IN TESL.

Advanced studies in communicative language teaching for English Language learners with special attention given to strategies-based instruction, development of cognitive academic language proficiency, materials assessment and modifications for language learners, cultural considerations for language teaching and language learning in K-12. Three credits.

EDU 313. ISSUES IN TEACHING ENGLISH AS A SECOND LANGUAGE IN THE PUBLIC SCHOOLS.

Prerequisite: Permission of the instructor.

Minimum grade of "C" required for education majors.

Overview of the historical and legal background of issues related to learning situations in the K-12 classroom. Survey of instructional materials and resources as well as ESL curriculum issues relevant to public schools. Two credits.

EDU 314. EVALUATION AND TESTING IN ENGLISH AS A SECOND LANGUAGE EDUCATION.

Prerequisite: Permission of the instructor.

Minimum grade of "C" required for education majors.

Introduction to the theories and issues related to assessing and evaluating learners in ESL and EFL education programs. Strategies and techniques are covered. Laboratory required. Two credits.

EDU 327. FOUNDATIONS OF READING.

Minimum grade of "C" required for education majors.

Traditional, innovative and reflective approaches to the teaching of reading, including basal reading, whole language learning, multi-grade grouping, Four Blocks, phonics, and other word attack and study skills. Field-based assignments are required. Three credits.

EDU 329. FOUNDATIONS OF ELEMENTARY SCHOOL MATHEMATICS.

Prerequisite: MAT 120.

An in-depth study of concepts and skills taught in K-6 math courses. Traditional, innovative, and reflective approaches to teaching math will be examined. Field-based assignments are required. Three credits. (Spring)

EDU 337. DIAGNOSIS AND REMEDIATION OF READING DIFFICULTIES (K-6).

Prerequisite: EDU 327.

Minimum grade of "C" required for education majors.

An in-depth study of reading difficulties. Formal and informal diagnostic instruments will be analyzed, evaluated and administered. Equipment, materials, and methods of remediation will be demonstrated and evaluated. Weekly internship time across grade levels. Three credits.

EDU 343. INTRODUCTION TO EXCEPTIONALITIES.

Minimum grade of "C" required for education majors.

Identification, characteristics, and programming needs of specific categories of exceptional children and youth. Three credits.

EDU 358. CURRICULUM INTEGRATION & MIDDLE GRADES PHILOSOPHY.

Minimum grade of "C" required for all education majors and licensure seeking students.

Examination and application of the concepts, principles, theories, research, and organizational components underlying and emerging from the philosophical foundations of the developmentally responsive middle level programs and schools. Three credits. (Fall of junior year.)

EDU 360. EDUCATIONAL TECHNOLOGY.

Prerequisite: CSC 110 or permission of the instructor.

Minimum grade of "C" required for education majors. No transfer credits allowed.

The candidate develops, refines and reflects on intermediate educational technology skills including desktop publishing, database management and spreadsheet operations for educators, using the Internet, developing multimedia presentations, and web page design. Primary focus on integration of educational technology into the curriculum. Three credits.

EDU 361. FOUNDATIONS OF INTEGRATED PRESCHOOL EDUCATION.

Minimum grade of "C" required for education majors.

History and development of early childhood special education, ages birth through five. An introduction to classic experimental model programs, the developmental appropriateness of historical and current programs, background in progress in the field, and the teacher's part in continued growth. Observation in early education programs based on various models required. Three credits.

EDU 363. B-K ASSESSMENT & ENVIRONMENTAL DESIGN.

Minimum grade of "C" required for education majors.

Designing a variety of environments to facilitate appropriate learning for the young child. Planning a well-balanced day, achieving specific goals and objectives, experience and practice with assessment tools and techniques for the typical and atypical child. Assessment of an infant/toddler and preschool/kindergarten child required. Three credits.

EDU 365. PRESCHOOL EXCEPTIONAL CHILDREN AND AGENCY COLLABORATION.

Minimum grade of "C" required for education majors.

Research into the field of early childhood and special education to study in depth the current developments and problems concerning typically/atypically developing children such as quality appropriate programs, assessment, and team collaborations. Weekly internship in programs with the very young child with disabilities in various settings required. Three credits.

EDU 366. SPEECH, LANGUAGE, AND EMERGING LITERACY.

Minimum grade of "C" required for education majors.

A critical review of theories and practices related to speech and language development. Emphasis will be given to the practical stages of language development, languages and dialectical differences, language acquisition, speech disorders, and the fostering of language development. Language profiles with infant/toddler and preschool/kindergarten children required. Three credits.

EDU 381, 382, 383, 384. SPECIAL TOPICS.

Prerequisites: PSY 100, EDU 220, 230 and permission of the department.

Minimum grade of "C" required for education majors.

Arrangements to be made by the department.

Individual study options available in such areas as identification and analysis of learning problems of individual pupils and design of instructional systems to combat them. Emphasis on tutorial, individualized learning, and other independent study techniques. One, two, three, or four credits.

EDU 395. BUSINESS EDUCATION METHODS.

Application of reflection as applied to aims, objectives, materials, and methods of teaching high school business subjects. Three credits.

EDU 402. ELEMENTARY AND DEAF EDUCATION STUDENT TEACHING METHODOLOGY SEMINAR.

Corequisite: EDU 441.

Minimum grade of "C" required for education majors.

Appraisal of current student teaching assignments and discussions on transforming and strengthening appropriate practices for diverse students, families and communities. In-depth examination of classroom management, professionalism, and current licensure process as well as options after graduation. Students will be required to complete the Student Teaching Summative Assessment Project. Two credits.

EDU 404. ELEMENTARY CURRICULUM—MATHEMATICS.

Minimum grade of "C" required for education majors.

Application of reflection as applied to curriculum and techniques in mathematics for K-6 education, including specific activities for developing perceptual and conceptual skills that will enable children to master the curriculum of those grades. Three credits.

EDU 405. ELEMENTARY CURRICULUM—SOCIAL STUDIES.

Minimum grade of "C" required for education majors.

Application of reflection as applied to curriculum and techniques in social studies for K-6 education, including specific activities for critical thinking and the decision making that will enable children to master the curriculum of those grades. Three credits.

EDU 408. ELEMENTARY CURRICULUM—SCIENCE.

Minimum grade of “C” required for education majors.

Application of reflection as applied to curriculum and techniques in science for K-6 education, including specific activities for developing perceptual and conceptual skills that will enable children to master the curriculum of those grades. Three credits.

EDU 409. ELEMENTARY CURRICULUM—LANGUAGE ARTS.

Minimum grade of “C” required for education majors.

Application of reflection as applied to curriculum and techniques in language arts for K-6 education, including specific activities for developing perceptual and conceptual skills that will enable children to master the curriculum of those grades. Three credits.

EDU 410. MIDDLE GRADES STUDENT TEACHING METHODOLOGY SEMINAR.

Minimum grade of “C” required for education majors.

Appraisal of current student teaching assignments and discussions on transforming and strengthening appropriate practices for diverse students, families and communities. In-depth examination of classroom management, professionalism, and current licensure process as well as options after graduation. Students will be required to complete the Student Teaching Summative Assessment Project. Two credits.

EDU 412. SECONDARY STUDENT TEACHING METHODOLOGY SEMINAR.

Minimum grade of “C” required for education majors.

Appraisal of current student teaching assignments and discussions on transforming and strengthening appropriate practices for diverse students, families and communities. In-depth examination of classroom management, professionalism, and current licensure process as well as options after graduation. Students will be required to complete the Student Teaching Summative Assessment Project. Two credits.

EDU 420. SPECIAL METHODS AND CURRICULUM IN THE SECONDARY SCHOOL.

Minimum grade of “C” required for education majors.

Prerequisites: EDU 220, 230 and admission by Teacher Education Council.

Aims, objectives, materials, and methods of teaching specific high school subjects. Two credits.

EDU 421. TEACHING FOREIGN LANGUAGES IN ELEMENTARY AND MIDDLE SCHOOLS.

Minimum grade of “C” required for education majors.

Application of reflection as applied to objectives, methods and materials for teaching modern foreign languages in grades K-9. Emphasis on language acquisition patterns in children, language proficiency, and integration of the second language with other content areas. Three credits. Cross-listed with SPA 421.

EDU 424. MIDDLE GRADES CURRICULUM—MATHEMATICS.

Minimum grade of “C” required for education majors.

Application of reflection as applied to methods of teaching and facilitating the learning activities of students in grades 6-9; selection, organization, and presentation of mathematics in the middle grades. Two credits.

EDU 425. MIDDLE GRADES CURRICULUM—SOCIAL STUDIES.

Minimum grade of “C” required for education majors.

Application of reflection as applied to methods of teaching and facilitating the learning activities of students in grades 6-9; selection, organization, and presentation of social studies in the middle grades. Two credits.

EDU 428. MIDDLE GRADES CURRICULUM—SCIENCE.

Minimum grade of “C” required for education majors.

Application of reflection as applied to methods of teaching and facilitating the learning activities of students in grades 6-9; selection, organization, and presentation of science in the middle grades. Two credits.

EDU 429. MIDDLE GRADES CURRICULUM—LANGUAGE ARTS.

Minimum grade of “C” required for education majors.

Application of reflection as applied to methods of teaching and facilitating the learning activities of students in grades 6-9; selection, organization, and presentation of language arts skills in the middle grades. Two credits.

EDU 430. FIELD EXPERIENCE IN SECONDARY/K-12 EDUCATION.

Minimum grade of “C” required for education majors.

Application of reflection as applied to one half-day per week in the student teaching placement. One credit.

EDU 431. FIELD EXPERIENCE IN ELEMENTARY, HEARING IMPAIRED, B–K EDUCATION.

Minimum grade of “C” required for education majors.

Application of reflection as applied to one full day per week in the student teaching placement. One credit.

EDU 432. FIELD EXPERIENCE IN MIDDLE GRADES EDUCATION.

Minimum grade of “C” required for education majors.

Application of reflection as applied to one full day per week in the student teaching placement. One credit.

EDU 435. LITERACY ACROSS THE CONTENT AREAS.

Minimum grade of “C” required for education majors.

The utilization of instructional frameworks and literacy strategies to promote content area instruction. Two credits.

EDU 435L. LITERACY ACROSS THE CONTENT AREAS LAB.

Co-requisite: EDU 435. Minimum grade of “C” required for education majors and licensure seeking students.

Application of diagnostic tools and literacy strategies for remediation and enhancement on content area instruction. Credit through co-requisite EDU 435. (Fall of senior year, Summer)

EDU 436. PRACTICUM IN READING.

Prerequisites: EDU 327, 337.

Minimum grade of “C” required for education majors.

Practical experiences in the teaching of reading. Work with typical and atypical readers in both individual and group settings. Three credits.

EDU 438. TRENDS AND ISSUES IN READING.

Minimum grade of “C” required for education majors.

Investigation of current trends and controversial issues in reading. Implications of reading research for instructional practice. Three credits.

EDU 440. STUDENT TEACHING IN THE SECONDARY/K-12 SCHOOL.

Prerequisites: EDU 201, 215, 220, 230, 343, methods courses, 430, and admission by the Teacher Education Council.

Corequisite: EDU 412.

Minimum grade of "B-" required for education majors.

Fifteen weeks of full-time observation, assisting in instruction and teaching. Twelve credits. Fee—\$125.00. SPRING ONLY

EDU 441. STUDENT TEACHING IN THE ELEMENTARY SCHOOL AND B-K SETTINGS.

Prerequisites: EDU 201, 215, 220, 230, 343, methods courses, 431, and admission by the Teacher Education Council.

Corequisite: EDU 402

Minimum grade of "B-" required for education majors.

Fifteen weeks of reflection on full-time observation assisting in instruction and teaching. Senior year. Twelve credits. Fee—\$125.00. SPRING ONLY.

EDU 442. STUDENT TEACHING IN THE MIDDLE GRADES.

Prerequisites: EDU 201, 215, 220, 230, 343, methods courses, 432, and admission by the Teacher Education Council.

Corequisites: EDU 410

Minimum grade of "B-" required for education majors.

Fifteen weeks of reflection on full-time observation, assisting in instruction and teaching. Twelve credits. Fee—\$125.00. SPRING ONLY.

EDU 453. KINDERGARTEN AND PRESCHOOL TEACHING.

Minimum grade of "B-" required for education majors.

A study of recent developments in the education of young children and their influence on the selection and guidance of appropriate activities. Three credits.

EDU 480. REFLECTIVE TEACHING AND RESEARCH IN TESL.

Culmination course designed to provide students with opportunities to supplement previous academic work with research and reflection in the academic area.

Particular attention on TESL issues such as innovative trends in the field of K-12 EDL education, ways in which ESL teaching profession can implement changes and sustain practices for ELL's within the K-12 community, how and why to initiate and build support networks within the school and beyond, and strategies for action research and professional growth. Two credits.

EDU 485. ALCOHOL AND DRUG PREVENTION EDUCATION.

Minimum grade of "C" required for education majors.

This course addresses the multiple causes of drug abuse and provides students with the skills and knowledge to implement and design drug prevention activities in a variety of settings. The course focuses on classroom climate and provides practical ideas, skills and teaching methods to implement educational programs and lessons with students and adults. A major component of the course will consist of team building and problem solving as they relate to social interaction in schools, groups and athletic teams. Three credits.

EDU 493. INTERNSHIP IN B-K SETTINGS.

Minimum grade of "C" required for education majors.

A minimum of 200 hours of supervised experience in birth through kindergarten settings working with infants and toddlers. Three credits. Fee—\$125.00.

EDU 499. SENIOR HONORS THESIS.

Minimum grade of "C" required for education majors.

Intensive investigation of an area of education culminating in an honors thesis. Oral examination required. Three credits.

ENVIRONMENTAL STUDIES

ENV 100. INTRODUCTION TO ENVIRONMENTAL SCIENCE.

Prerequisite: BIO 105 or CHE 103/103L.

This course will acquaint Environmental Studies majors with the field of Environmental Science, including the history and philosophy of the field as well as its scientific foundations. Emphasis will be placed upon ecological principles from which environmental science has developed, as well as the human environmental problems of population size, energy consumption, pollution, and land use. This course will include three hours of lecture and a three-hour laboratory once per week. Four credits. This course is required for and will replace the Science 300 core curriculum requirement for Environmental Studies majors with concentrations in Biology, Chemistry, Earth Science or Physics. Students may not receive credit for ENV 100 and SCI 300. (Spring)

ENV 400. ENVIRONMENTAL STUDIES, SENIOR PROBLEMS.

A course in special problems for seniors majoring in environmental studies. Problems will be chosen which require the students to synthesize the knowledge and skills acquired in previous courses. Three credits. (Fall, Spring)

ENGLISH

ENG 131. CRITICAL THINKING AND WRITING.

Required of all first-semester students except those with approved transfer credit or score of 3 or higher on the Advanced Placement English (Language/Composition) exam.

Instruction and practice in expository writing, reading, and critical thinking. Includes the production of a research paper, the study of rhetoric, logic, and Edited Standard Written English. Four credits. (Fall)

ENG 155. WRITER'S WORKSHOP.

Required of students who do not meet ENG 131 writing competency standards.

First-semester students may opt to take this course as preparation for ENG 131.

Intensive writing tutorial with emphasis on fundamentals of composition, including focus, development, organization, coherence, and conventions of Edited Standard Written English. Two credits. (Fall, Spring)

ENG 231. WRITING ABOUT LITERATURE.

Prerequisite: ENG 131. Students must enroll in 231 by the first semester of their sophomore year.

A study of selected topics in Western and World Literature, with continued work on expository writing. Includes the study of academic research, and oral communication. Four credits. (Spring)

ENG 270. READING FICTION.

Prerequisite: English 231 or C+ or higher in ENG 131.

A study of narrative conventions and forms, both Western and World, including critical approaches to the genre. Four credits. (Spring)

ENG 271. READING POETRY.

Prerequisite: English 231 or C+ or higher in ENG 131.

A study of poetic conventions and forms, both Western and World, including critical approaches to the genre. Four credits. (Fall)

ENG 301. COLONIAL LITERATURE.

Prerequisite: One of the following: ENG 231, 270, 271, 370 or 371.

Study of selected topics in American literature from the era of discovery through the Great Awakening, with attention to historical contexts and critical approaches. Two credits.

ENG 302. EARLY NATIONAL LITERATURE.

Prerequisite: One of the following: ENG 231, 270, 271, 370 or 371.

Study of selected topics in American literature. Attention will be given to historical contexts and critical approaches. Two credits.

ENG 303. AMERICAN NOVEL I.

Prerequisite: One of the following: ENG 231, 270, 271, 370 or 371.

Study of the development of the American novel, from its origins through the Civil War, with attention to historical contexts and critical approaches. Two credits.

ENG 304. AMERICAN NOVEL II.

Prerequisite: One of the following: ENG 231, 270, 271, 370 or 371.

Study of the development of the American novel from the Civil War to the present, with attention to historical contexts and critical approaches. Two credits.

ENG 305. AMERICAN REALISM AND NATURALISM.

Prerequisite: One of the following: ENG 231, 270, 271, 370 or 371.

Study of American fiction between the Civil War and World War I, with attention to historical contexts and critical approaches. Two credits.

ENG 306. ETHNIC AMERICAN LITERATURE.

Prerequisite: One of the following: ENG 231, 270, 271, 370 or 371.

A study of selected topics in and critical approaches to literature written by ethnic minority writers in the United States. Two credits.

ENG 315. HISTORY AND GRAMMAR OF THE ENGLISH LANGUAGE.

Prerequisite: One of the following: ENG 231, 270, 271, 370 or 371.

Introduction to general linguistic theory, language acquisition, dialectology, historical development of the English language, and traditional and transformational grammatical analysis. Two credits.

ENG 317. WOMEN AND LITERATURE.

Prerequisite: One of the following: ENG 231, 270, 271, 370 or 371.

A study of selected topics in and critical approaches to literature written by and about women and related cultural issues. Two credits.

ENG 318. POST-COLONIAL LITERATURE.

Prerequisite: One of the following: ENG 231, 270, 271, 370 or 371.

A study of selected topics in and critical approaches to literature written in the historic colonies and dependencies of the European powers. Two credits.

ENG 324. ENGLISH NOVEL I.

Prerequisite: One of the following: ENG 231, 270, 271, 370 or 371.

A study of the development of the English novel through 1900, with attention to historical contexts and critical approaches. Two credits.

ENG 325. ENGLISH NOVEL II.

Prerequisite: One of the following: ENG 231, 270, 271, 370 or 371.

A study of the development of the English novel from 1900 to the present, with attention to historical contexts and critical approaches. Two credits.

ENG 330. VISITING WRITER-IN-RESIDENCE WORKSHOP IN POETRY OR FICTION.

Prerequisite: ENG 131.

A writing workshop in either poetry or fiction taught by a published author. Freshmen must petition the English Program to enroll in the course. The course may be repeated with different authors. Two to four credits. (Spring)

ENG 345. WRITING FICTION.

Prerequisite: One of the following: ENG 231, 270, 271, 370, or 371.

Introduction to the theory and practice of writing fiction through analysis of student writing and selected models. Four credits.

ENG 346. WRITING POETRY.

Prerequisite: One of the following: ENG 231, 270, 271, 370, or 371.

Introduction to the theory and practice of writing poetry through analysis of student writing and selected models. Four credits.

ENG 352. ANGLO-SAXON AND EARLY MEDIEVAL LITERATURE.

Prerequisite: One of the following: ENG 231, 270, 271, 370 or 371.

A study of the history and literature of the period with attention to historical contexts and critical approaches. Two credits.

ENG 357. EARLY MODERN DRAMA TO 1600.

Prerequisite: One of the following: ENG 231, 270, 271, 370 or 371.

A study of plays by dramatists including Shakespeare prior to 1600, with attention to historical contexts and critical approaches. Two credits.

ENG 358. EARLY MODERN DRAMA AFTER 1600.

Prerequisite: One of the following: ENG 231, 270, 271, 370 or 371.

A study of plays by dramatists including Shakespeare from 1600 to 1700, with attention to historical contexts and critical approaches. Two credits.

ENG 370. READING DRAMA.

Prerequisite: ENG 231 or C+ or higher in ENG 131.

A study of dramatic conventions and forms, both Western and World, including critical approaches to the genre. Four credits. (Spring)

ENG 371. ADVANCED RHETORIC AND WRITING.

Prerequisite: ENG 231 or C+ or higher in ENG 131.

A writing intensive study of rhetorical conventions, forms, and theory particular to non-fiction prose and critical approaches to prose analysis. Four credits. (Fall)

ENG 381, 382, 383, 384. SPECIAL TOPICS.

Selected topics in literature, such as major authors, thematic studies, and non-traditional genres. One, two, three, or four credits. (On demand)

ENG 401. GAY AND LESBIAN LITERATURE.

Prerequisite: One of the following: ENG 231, 270, 271, 370 or 371.

A study of selected topics in and critical approaches to literature by gay and lesbian writers and/or about gay and lesbian identities. Two credits.

ENG 402. HISPANIC AND LATINO/A LITERATURE.

Prerequisite: One of the following: ENG 231, 270, 271, 370 or 371.

A study of selected topics in and critical approaches to literature written by Hispanic and Latino/a and/or about Hispanic and Latino/a cultures and identities. Two credits.

ENG 403. AFRICAN-AMERICAN LITERATURE.

Prerequisite: One of the following: ENG 231, 270, 271, 370 or 371.

A study of selected topics in and critical approaches to literature written by and about African-Americans. Two credits.

ENG 409. AMERICAN ROMANTICISM.

Prerequisite: One of the following: ENG 231, 270, 271, 370 or 371.

Study of 19th-century American romantic writing, with principal emphasis on the American Renaissance. Two credits.

ENG 421. CHAUCER AND THE LATE MIDDLE AGES.

Prerequisite: One of the following: ENG 231, 270, 271, 370 or 371.

A study of the principal works of Chaucer and some of his contemporaries. Though the linguistic side is not neglected, the course is primarily literary in character. Two credits.

ENG 422. RENAISSANCE LITERATURE.

Prerequisite: One of the following: ENG 231, 270, 271, 370 or 371.

A study of the non-dramatic literature from Wyatt to Marvell with emphasis on Spenser and Milton. Two credits.

ENG 424. THE RESTORATION AND EIGHTEENTH CENTURY.

Prerequisite: One of the following: ENG 231, 270, 271, 370 or 371.

A study of the history and literature of the period with an emphasis on the writings of Dryden, Swift, Pope, Boswell, and Johnson. Two credits.

ENG 425. THE ROMANTIC MOVEMENT.

Prerequisite: One of the following: ENG 231, 270, 271, 370 or 371.

A study of the Romantic Movement with emphasis on Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats. Two credits.

ENG 426. THE VICTORIAN AGE.

Prerequisite: One of the following: ENG 231, 270, 271, 370 or 371.

A study of representative poets, with emphasis on Tennyson, Browning, and Arnold, and selected nonfiction prose writers. Two credits.

ENG 430. MODERN BRITISH POETRY.

Prerequisite: One of the following: ENG 231, 270, 271, 370 or 371.

A study of British poetry of the first half of the 20th century, with attention to historical contexts and critical approaches. Two credits.

ENG 431. MODERN AMERICAN POETRY.

Prerequisite: One of the following: ENG 231, 270, 271, 370 or 371.

A study of American poetry of the first half of the 20th century, with attention to historical contexts and critical approaches. Two credits.

ENG 435. CONTEMPORARY BRITISH POETRY.

Prerequisite: One of the following: ENG 231, 270, 271, 370 or 371.

A study of contemporary British poetry, with attention to historical contexts and critical approaches. Two credits.

ENG 436. CONTEMPORARY AMERICAN POETRY.

Prerequisite: One of the following: ENG 231, 270, 271, 370 or 371.

A study of contemporary American poetry, with attention to historical contexts and critical approaches. Two credits.

ENG 447. TWENTIETH-CENTURY BRITISH DRAMA.

Prerequisite: One of the following: ENG 231, 270, 271, 370 or 371.

A study of contemporary British drama, with attention to historical contexts and critical approaches. Two credits.

ENG 448. TWENTIETH-CENTURY AMERICAN DRAMA.

Prerequisite: One of the following: ENG 231, 270, 271, 370 or 371.

A study of contemporary American drama, with attention to historical contexts and critical approaches. Two credits.

ENG 480. SENIOR SEMINAR.

Intensive literary study culminating in the writing and presentation of a major critical paper. Four credits. (Fall)

ENG 498. SENIOR HONORS RESEARCH.

Directed readings and research for honors students in the area related to the honors thesis. Two credits. (On demand)

ENG 499. SENIOR HONORS THESIS.

Prerequisite: ENG 498.

Independent study and research. Honors thesis directed by a member of the program and a faculty committee. An oral defense of thesis. Four credits. (On demand)

FRENCH

FRE 110. INTRODUCTORY FRENCH I.

An intensive course designed to develop cultural awareness and understanding, in addition to basic proficiency in all four areas: listening, speaking, writing, and reading. A variety of activities and materials are used to promote communicative competence and confidence, and to make the students' experience with language and culture enjoyable. Three credits. (Fall, Spring)

FRE 111. INTRODUCTORY FRENCH II.

Prerequisite: FRE 110 or permission of the instructor.

A continuation of FRE 110 using the same approach and format as FRE 110. Three credits. (Fall, Spring)

FRE 210. INTERMEDIATE FRENCH LANGUAGE AND CULTURE.

Prerequisites: FRE 111 or instructor's permission.

This course is a continuation of FRE 111 with the overall goal of moving students toward more communication competence while guiding them toward intercultural sophistication. In addition to the text-film based content, up to date language in context

is introduced to encourage students to express themselves meaningfully with ease. Class/drill times indicated in each semester class schedule. Three credits. (Spring)

FRE 221. GUIDED FRENCH CONVERSATION.

Prerequisites: FRE 210 or instructor's permission.

This course is intended to serve the needs of students wishing to enrich their French speaking skills with colorful and humorous idiomatic French expressions. The instructor will serve primarily as a facilitator and resource using a variety of stimuli to elicit speech and help students develop the art of conversation in French and further understanding of French culture. Learning how to speak in a variety of cultural contexts will be emphasized. Development of skills for studying in Francophone countries. Class time indicated in each semester class schedule. Three credits.

FRE 222. FRENCH CONVERSATION VIA FRENCH CINEMA AND INTERNET.

Prerequisite: FRE 210 or instructor's permission.

In the French tradition of Arts and Humanities, this course is a mix of class discussions on classical films, songs as well as the press on internet leading to an interactive discussion between instructor and students. The aim is to train student in the spontaneous use of, and extend the quality and quantity of spoken French, to examine and discuss current French cultural issues via French cinema and media. Class indicated in each semester class schedule. Three credits. (Spring)

FRE 240. ADVANCED GRAMMAR AND GUIDED COMPOSITION.

Prerequisite: FRE 210.

A systematic study of grammar and syntax designed to introduce the student to the more sophisticated syntactical patterns of the French language and to serve as a bridge between intermediate French grammar and free composition. Guided compositions and exercises structured to build and enrich an active vocabulary. Three credits. (Even Fall)

FRE 331. FRENCH CULTURE AND CIVILIZATION: THE PAST.

Prerequisite: FRE 221 or FRE 222.

An overview of French culture and civilization from pre-Roman times to the end of the 19th century as seen through major events and accomplishments in history, literature, and the arts. Three credits. (Odd Spring)

FRE 332. FRENCH CULTURE AND CIVILIZATION: THE PRESENT.

Prerequisite: FRE 221 or FRE 222.

This course, via a multimedia approach, is designed to explore the multiple aspects of contemporary French culture and civilization. Geographic, political, and economic forces will be examined as they mold the intellectual, artistic, and spiritual life of France. If time permits, cultures of other francophone nations will also be examined. Three credits. (Odd Fall)

FRE 340. ADVANCED COMPOSITION AND STYLISTICS.

Prerequisite: FRE 240.

A composition course designed to teach the student to express mature ideas clearly and correctly. Idiomatic French and situation-oriented active vocabularies will be stressed. Three credits. (Odd Spring)

FRE 361. INTRODUCTION TO LITERARY ANALYSIS.

Prerequisite: FRE 221 or 222.

This course is intended to expose the student to the numerous techniques used in

analyzing literary genres by the French method known as Explication de textes. Three credits. (Odd Spring)

FRE 362. SURVEY OF FRENCH LITERATURE I.

Prerequisite: FRE 221 or 222 or permission of the instructor.

Survey of French literature from the Middle Ages through the 17th century. Carefully chosen selections will be analyzed to show the development of the various literary genres and to capture the spirit, richness, and beauty of the given periods. Three credits. (Odd Fall)

FRE 363. SURVEY OF FRENCH LITERATURE II.

Prerequisite: FRE 221 or 222 or permission of the instructor.

Survey of French literature of the 18th and 19th centuries. Analysis of representative texts reflecting the "esprit philosophique" of the Enlightenment and the major literary movements of the nineteenth century. Three credits. (Even Fall)

FRE 364. MODERN FRENCH LITERATURE.

Prerequisite: FRE 221 or 222 or permission of the instructor.

A study of representative authors of the 20th century with special emphasis on the novel, poetry, and contemporary theater. Among authors to be studied will be Proust, Valéry, Gide, Malraux, Sartre, Camus, Ionesco, and Beckett. Three credits. (On demand)

FRE 381, 382, 383, 384. SPECIAL TOPICS IN FRENCH STUDIES.

Topics and projects may include French history, literature, philosophers, music, and art according to student need and interest. May be repeated with change of topic. One, two, three, or four credits. (On demand)

FRE 401. COMMERCIAL FRENCH.

Study of business-oriented vocabulary and terminology as applicable in daily transactions in business and government. Stress on actual cases involving telephone communication, correspondence, interviews, oral and written reports and agreements. Three credits. (Fall)

FRE 402. FRENCH FOR BUSINESS COMMUNICATIONS.

Refinement of techniques, both oral and written, encountered in business enterprises in areas such as sales, purchasing, banking, and transportation. Three credits. (Spring)

FRE 421. TEACHING FOREIGN LANGUAGES IN ELEMENTARY AND MIDDLE SCHOOLS.

Objectives, methods, and materials for teaching modern foreign languages in grades K-9. Emphasis on language acquisition patterns in children, language proficiency, and integration of the second language with other content areas. Three credits. Cross-listed with Education 421. (Spring)

FRE 470. INDEPENDENT STUDY.

Directed study and research on topics or projects of special interest. May be repeated once with different content. Three credits. (On demand)

FRE 499. SENIOR HONORS THESIS.

Intensive study of a particular topic or project appropriate to the major, culminating in an honors thesis, project, etc. Oral examination. Three credits. (By invitation)

GEOGRAPHY

GEO 101. PRINCIPLES OF GEOGRAPHY.

A consideration of the nature of man's habitat, man's adaptation to his physical environment, and his relationship to geophysical features and his impact on them. Three credits. (Fall, Spring, Summer)

GEO 102. REGIONAL GEOGRAPHY.

A study of the major regions of the world, including Europe, Latin America, the Middle East, Africa, Asia, and the Pacific World. Three credits. (On demand)

GERMAN

GER 110. INTENSIVE INTRODUCTORY GERMAN I.

An intensive course designed to develop cultural awareness and understanding, in addition to basic proficiency in all four areas: listening, speaking, writing, and reading. A variety of activities and materials are used to promote communicative competence and confidence, and to make the students' experience with language and culture enjoyable. Three credits. (Fall, Spring, Summer)

GER 111. INTENSIVE INTRODUCTORY GERMAN II.

Prerequisites: GER 110 or permission of instructor.

Continuation of GER 110 using same approach and format as GER 110. Three credits. (Fall, Spring, Summer)

GER 221. GERMAN CONVERSATION AND PHONETICS.

Prerequisite: GER 111 or permission of instructor.

The course is designed to continue development of speaking, reading, and writing skills, and will include a complete grammar review. Readings serve as a point of departure for oral expressions and discussions. Also included in the course will be a study of the German sound system and its application to proper pronunciation. Three credits. (Fall)

GER 222. GERMAN CONVERSATION AND COMPOSITION.

Prerequisite: GER 221, or permission of instructor.

Continuation of conversation practice, leading to free conversational exchange of ideas on selected topics. Composition of formal and informal notes, letters, reports, etc. for everyday use. Three credits. (Spring)

GER 230. CONVERSATIONAL GERMAN.

Prerequisites: GER 111 or permission of instructor.

The course intends to build up listening comprehension, with heavy emphasis on the speaking skills of students through directed in-class conversations, discussions, and presentations in German on various everyday life topics such as family, school, leisure time, holidays, sports, shopping, traveling, etc. It will emphasize idiomatic expressions as well as intonation and pronunciation. Three credits. (Odd Spring)

GER 331. GERMAN CULTURE AND CIVILIZATION: THE PAST.

Prerequisites: GER 221, 222, or permission of instructor.

A study of German culture and civilization in historic view. The course is designed to give the student an overview of German cultural, social, and historical trends from the ancient Germanic tribes to the present as seen through literature, architecture,

painting, music, and historical writings. Furthermore, the course explores the roots of common stereotypes and myths about Germans and Germany, and attempts to isolate specific German deviations from and contributions to the development of Western civilization. Three credits. (Even Fall)

GER 332. GERMAN CULTURE AND CIVILIZATION: THE PRESENT.

Prerequisite: GER 221, 222, or permission of instructor.

A study of everyday German life styles and culture. In this course the student will explore the German social and political system, the educational system, leisure time and festivities, the family, church and religion, the work world, arts, and sports in order to become familiar with differences from as well as similarities to American culture and to gain a deeper understanding and appreciation of Germany and the German people. Three credits. (Odd Spring)

GER 340. ADVANCED GRAMMAR AND COMPOSITION.

A comprehensive analytical study of German grammar and syntax. Attention will be given to similarities and differences between German and English; problems encountered in reading and translating more complex German texts; application of grammatical principles to refined writing. Three credits. (Even Spring)

GER 361. EARLY GERMAN LITERATURE.

Readings from works of the Middle Ages, the Reformation, and the 17th century. Three credits. (Odd Fall)

GER 362. GOETHE AND HIS TIME.

The classic period of German literature; lectures, reports, discussions, and readings in the principal authors of this period. Written composition on selected topics. Three credits. (Even Spring)

GER 363. NINETEENTH CENTURY GERMAN LITERATURE.

A study of the literary movements of the 19th century. Romanticism, Young Germany, Realism. Selected works of representative authors. Three credits. (Even Fall)

GER 364. GERMAN LITERATURE OF THE TWENTIETH CENTURY.

The development of German literature since the turn of the century seen against the political, social, and philosophical background; reading and interpretation of representative authors. Three credits. (Odd Spring)

GER 381, 382, 383, 384. SPECIAL TOPICS IN GERMAN STUDIES.

Topics and projects may be chosen from such areas as literature, film, history, folklore, art, music, etc., according to student needs and interest. May be repeated with change of topic. One, two, three, or four credits. (On demand)

GER 401. COMMERCIAL GERMAN.

Study of business-oriented vocabulary and terminology as applicable in daily transactions in business and government. Stress on actual cases involving telephone communication, correspondence, interviews, oral and written reports and agreements. Terminology units tailored to interest of students: telecommunications/ engineering, export-import documents, furniture, textiles, etc. Three credits. (Odd Fall)

GER 402. GERMAN FOR BUSINESS COMMUNICATION.

Refinement of techniques, both oral and written, encountered in business enterprises in areas such as sales, purchasing, banking, and transportation. Three credits. (Even Spring)

GER 470. INDEPENDENT STUDY.

Directed study and research on topics or projects of special interest. For majors on request with permission of the instructor. May be repeated once with different content. Three credits. (On demand)

GER 499. SENIOR HONORS THESIS.

Intensive study of a particular topic or project appropriate to the major, culminating in an honors thesis, project, etc. Oral examination. Three credits. (By invitation)

GREEK

GRE 101. ELEMENTARY GREEK.

Koine Greek; grammar and reading. Three credits. (Fall)

GRE 102. ELEMENTARY GREEK.

Koine Greek; grammar and reading. Three credits. (Spring)

GRE 201. INTERMEDIATE GREEK.

Grammar, readings, linguistic analysis of classical texts and texts from the New Testament. Three credits. (Fall)

GRE 202. INTERMEDIATE GREEK.

Grammar, readings, linguistic analysis of classical texts and texts from the New Testament. Three credits. (Spring)

HEALTH, EXERCISE, AND SPORT SCIENCE

HES 100. CONCEPTS IN HEALTHFUL LIVING.

This course is designed to teach students that healthful living is not a destination, but a journey. Wellness is not a static condition, but a continual balancing of the different dimensions of human needs—spiritual, social, emotional, intellectual, physical, occupational, and environmental. Students must understand that they are responsible for their own growth in these areas, and the course emphasizes the importance of self-responsibility. One credit. (Fall, Spring, Summer)

The HES course fees listed below are subject to change without notification.

HES 101. SNOW SKIING. (Fee TBD)

One credit.

HES 102. GYMNASTICS. (Fee \$70)

One credit.

HES 104. TENNIS

Racket and balls required. One credit.

HES 105. ICE SKATING. (Fee TBD)

One credit.

HES 107. BEGINNING SWIMMING.

One credit.

HES 108. INTERMEDIATE SWIMMING.

One credit.

HES 109. ULTIMATE FRISBEE.

One credit.

HES 110. RACQUETBALL

Racket and balls required. One credit.

HES 111. AEROBICS.

One credit.

HES 112. BADMINTON.

One credit.

HES 113. JAZZERCISE.

One credit.

HES 114. GOLF. (Fee \$25)

One credit.

HES 115. BOWLING. (Fee TBD)

One credit.

HES 116. WEIGHT TRAINING.

One credit.

HES 117. HORSEMANSHIP. (Fee \$155)

One credit.

HES 118. ADVANCED SNOW SKIING. (Fee TBD)

One credit.

HES 119. MARTIAL ARTS.

One credit.

HES 120. EMERGENCY WATER SAFETY/STANDARD FIRST AID.

Two credits.

HES 121. OUTDOOR SKILLS AND LEADERSHIP DEVELOPMENT. (Fee TBD)

One credit.

HES 122. BEGINNING SNOW BOARDING. (Fee TBD)

One credit.

HES 123. ADVANCED SNOW BOARDING. (Fee TBD)

One credit.

HES 124. YOGA.

One credit.

HES 126. TEAM SPORTS I.

Skills, rules, and strategies in volleyball, soccer, and/or ultimate Frisbee. One credit.

HES 127. TEAM SPORTS II.

Skills, rules, and strategies of basketball, softball, and/or baseball. Other team sports may also be incorporated. One credit.

HES 128. WATER AEROBICS.

One credit.

HES 129. SPECIAL TOPICS IN PHYSICAL ACTIVITIES.

One credit.

HES 130. SCUBA DIVING. (Fee TBD)

Additionally, snorkeling equipment is required and certification is available for a fee. Two credits.

HES 131. WATER SAFETY INSTRUCTION.

Prerequisite: HES 120.

The objective of this course is to teach advanced swimmers the art of instructing swimming skills to infants, children, teens, and adults. The course is intense in its requirements of the student. Much practice and reading are required to successfully complete the course. The course is not for novice swimmers. Two credits.

HES 132. LIFEGUARD TRAINING.

The objective of this course is to train advanced swimmers in lifesaving skills. Other components of the course include CPR for the Professional Rescuer and First Aid. This course is not for novice swimmers. Two credits.

HES 133. BEGINNING BALLROOM DANCING.

One credit.

HES 134. INTERMEDIATE BALLROOM DANCING.

One credit.

HES 135. IRISH DANCING.

One credit.

HES 140. OUTWARD BOUND EXPERIENCE.

HES 140 is designed to increase leadership potential through wilderness activities such as backpacking, rock climbing, camping, orienting, and survival skills development. HES 140 is in conjunction with Outward Bound. Graded on pass/fail basis. Three credits.

HES 200. INTRODUCTION TO KINESIOLOGY.

An introduction to the variety of concentrations encompassed in the general study of physical activity. Topics cover the overall importance of physical activity in our society and include a general overview of the historical, philosophical, scientific, and psycho-social aspects of the field. The course will introduce students to a wide-range of career opportunities in healthful living and sport. Three credits. (Spring)

HES 203. TECHNIQUES OF COACHING.

An introduction to the profession which examines the many facets involved in coaching, along with guidelines that a beginning coach will find useful in establishing his or her own methods and philosophy. Three credits. (On demand)

HLS 205. PRINCIPLES OF SPORTS MANAGEMENT.

A study of the appropriate organizational and administrative techniques needed to design and implement programs in a variety of sport-related fields. Three credits. (Fall)

HES 207. MOTOR LEARNING.

Prerequisite: BIO 281.

A study of the development and acquisition of movement skills with emphasis on implications for teachers and athletic coaches. Three credits. (Spring)

HES 208. PHYSICAL EDUCATION FOR THE ELEMENTARY SCHOOL.

Prerequisites: HES 200, HES 207, BIO 282.

Methods, materials, and techniques for teaching physical education on the elementary school level (K-6). Three credits. (Fall)

HES 211. PREVENTION AND CARE OF ATHLETIC INJURIES.

An introductory course for athletic training students in the prevention and emergency care techniques of athletic injuries. Includes certification in Emergency Cardiac Care. Three credits. (Spring)

HES 220. FACILITY MANAGEMENT AND DESIGN.

Prerequisite: HES 205.

An in-depth examination of the development and maintenance of facilities for health, physical education, recreation, athletics, and dance. Three credits. (Spring)

HES 280. METHODS AND MATERIALS IN HEALTHFUL LIVING EDUCATION.

An introduction to the scope and strategies of teaching students the importance of a healthy lifestyle. Special emphasis will be placed upon how to integrate healthful living into the subjects taught by the classroom teacher. Three credits.

HES 284. HEALTH EDUCATION FOR THE SECONDARY SCHOOL.

Methods and materials for developing health, knowledge, skills, and attitudes which may be used on the secondary school level (7-12). Three credits. (On demand)

HES 285. FIRST AID AND EMERGENCY CARE.

The study, practice and application of first aid and emergency care, which includes in depth training in CPR and first aid. American Red Cross certification in Adult CPR and standard First Aid is granted upon successful completion of requirements. One credit. (Fall, Spring, Summer)

HES 286. HEALTH EDUCATION FOR THE ELEMENTARY AND MIDDLE SCHOOL.

Methods and materials for developing health, knowledge, attitudes, practice, and skills which may be utilized by the elementary and middle school teacher (K-8). Two credits. (Fall, Spring, Summer)

HES 287. PERSONAL HEALTH & NUTRITION.

Contemporary health and nutrition issues as they relate to the individual and problems in everyday living. Three credits. (Fall, Spring)

HES 288. NUTRITION.

This course explores the basic concepts integral to the science of nutrition. Emphasis will be placed on the metabolic and physiological principles underlying digestion and absorption of nutrients, chemical structure and metabolic fate of nutrients, the biochemical role of nutrients in maintaining health, and the effects of over- and under-nutrition on disease pathogenesis. Three credits. (Fall)

HES 290. COMMUNITY HEALTH.

Emphasizes social, cultural, economic, environmental, legal, and political influences on health and health care. Epidemiological principles and selected community problems are discussed. Three credits. (Fall, alternating years with HLS 292)

HES 292. HEALTH PROMOTION PROGRAMMING AND MANAGEMENT.

This course examines the parameters of successful wellness and health promotion

programs focusing on encouraging positive preventive and interventive health and lifestyle changes. By targeting the health risk behaviors in goals and objectives of Healthy People 2010 and the ever-growing concern to reduce healthcare costs, course participants earn the fundamentals of health risk assessment, program design, management, and evaluation. Participants design a wellness/health promotion program concept and implementation. Three credits. (Fall, alternating years with HLS 290)

HES 300. EXERCISE PHYSIOLOGY.

Prerequisite: BIO 282.

A lecture and laboratory course which emphasizes understanding and application of knowledge regarding human cardiopulmonary, muscular and metabolic responses to exercise and adaptations to chronic physical activity. Application of this knowledge includes healthy individuals as well as patient populations (e.g., cardiac and pulmonary rehabilitation, diabetes, asthma, endocrine disorders, sports injury, etc.). Laboratory experiences are provided to aid in understanding the basic principles underlying the responses of the body to various exercise stimuli. Four credits. (Spring)

HES 301. ADAPTED PHYSICAL EDUCATION.

Prerequisite: HES 208 or permission of the instructor.

Principles and problems related to adapting the physical education program to meet the needs of the atypical student. Three credits. (Spring)

HES 302. PHYSICAL EDUCATION FOR THE SECONDARY SCHOOL.

Prerequisites: HES 200, HES 207, HES 208.

Methods, materials and techniques of teaching Physical Education at the middle and high school level (6-12). Three credits. (Spring)

HES 303. BIOMECHANICS/KINESIOLOGY.

Prerequisites: BIO 281, 282 and PHY 110.

Anatomical, physiological, and kinesiological principles of muscle action and joint mechanics as related to physical education, health, and exercise sciences, and athletic training. Four credits. (Fall)

HEL 315. SPORTS MANAGEMENT INTERNSHIP I.

Prerequisites HES 205, 220.

This course is designed to give Sports Management majors work experience in the day-to-day running of an intercollegiate athletics department or other area of sport, recreation, or physical activity. Hours vary based on placement. Two credits. (Fall)

HES 316. SPORTS MANAGEMENT INTERNSHIP II.

Prerequisites: HES 205, 220.

This course is designed to give Sports Management majors practical work experience in the day-to-day running of an intercollegiate athletics department or other area of sport, recreation, or physical activity. Hours vary based on placement. Two credits. (Spring)

HES 320. EXERCISE EVALUATION AND PRESCRIPTION.

Prerequisite: HES 300.

This is a lecture and lab course which covers the fundamental principles of assessing cardiorespiratory fitness, muscular fitness, and flexibility as well as exercise prescription for healthy and diseased individuals. Specific attention will be given to the guidelines established by the American College of Sports Medicine

(ACSM) enabling the student to seek certification. Electrocardiogram (ECG) interpretation and Pulmonary Function Testing will also be explored in depth. The student will be given ample opportunity to practice essential laboratory techniques in exercise testing. Three credits. (Fall)

HES 321. INTERNSHIP IN HEALTH AND EXERCISE SCIENCE.

Prerequisite: HES 300.

This course is designed to give major practical experience in a clinical setting. Requires 100 on-site hours for one semester. Two credits.

HES 322. INTERNSHIP IN HEALTH AND EXERCISE SCIENCE.

Prerequisite: HES 300, 321, 320.

This course is designed to give major practical experience in a clinical setting. Requires 100 on-site hours for one semester. Two credits.

HES 330. PSYCHOLOGY OF SPORT AND PHYSICAL ACTIVITY.

A study of the psychological aspects of the sport and exercise settings. Special attention will be given to motivation, anxiety, aggression, performance enhancement, spectator influences, and the youth sports setting. Three credits. (Fall)

HES 331. SPORT IN SOCIETY.

An examination of sport as a social institution with discussion centering around violence in sport, race and gender issues, and youth sport. Three credits. (Spring)

HLS 373. WOMEN'S WHOLENES.

Students will engage in development of the concept of the whole healthful person, including mind, body, and spirit. Students will grow skills in writing, reading and thinking as they engage in female issues of the world today. Engaging in discussion and reflection of the latest research about women's health issues will allow students of the class to institute reflection on their own habits as a beginning to improvement of self and positive influence of others. Students will be prompted to reflect upon topics from a viewpoint of women's physical and mental health, including media, violence, finances, leadership, and spirituality. The course will include review of current literature, class discussion, guest speakers, creative assignments, and group work. Three credits.

HES 381, 382, 383, 384. SPECIAL TOPICS.

Selected topics in Healthful Living and Sports Studies. May be repeated with change of topic. One, two, three, or four credits. (On demand)

HES 408. CRITICAL ISSUES IN SPORT.

Prerequisite: Senior Status

The course is designed to explore current issues in the sports world and the relationship of these issues to problems in business and society. The course will seek to provide students the opportunity to examine more closely issues such as drug use among athletes, contract and labor struggles, educational issues, racial and gender equity questions, and other contemporary topics as they may arise during the course of the semester. Three credits. (Spring)

HES 409. SPORTS LAW.

Prerequisites: Senior Status or permission of the instructor.

Sports law is a growing component of the sports industry. This course provides information on how the field of sports law emerged, the issues relative to sports law,

and how these issues have an impact on the different factions of the sports industry, such as administrators, coaches, officials, and participants. Key areas of law such as contract law, tort liability, constitutional law, sex discrimination, criminal law, and labor law will be introduced. Three credits. (Fall)

HES 410. DIRECTED READING/RESEARCH.

This course is a study of the principles and basic concepts of research and the research process. Special emphasis will be placed on selecting a research topic, posing research questions, forming a hypothesis, designing an experiment, choosing appropriate statistical methods, analyzing results and developing conclusions. In addition, skills necessary for seeking appropriate sources of information and critical evaluation and analysis of the scientific literature will be developed. Senior majors only. Three credits.

HES 415. SENIOR TEACHING STRATEGIES IN PHYSICAL EDUCATION.

Prerequisites: HES 200, 208, 300, 301, 302, 303.

A culmination of the methodology of physical education in the form of planned, sequential evaluations of target behaviors deemed essential for effective teaching. Two credits.

HES 416. SPORTS MANAGEMENT FIELD EXPERIENCE.

Prerequisites: HES 205 and 220.

This course is designed to give Sports Management majors practical work experience in an area of their choice. Hour requirements vary based on placement. Four credits.

HES 421. INTERNSHIP IN HEALTH AND EXERCISE SCIENCE III.

Prerequisite: HES 321 and 322.

This course is designed to give the major practical experience in a clinical setting, requiring 200 on-site hours for one semester. Four credits.

HES 426. CLINICAL EDUCATION IV—PART I.

Prerequisites: HES 327.

Clinical Education course designed to assess the athletic training students' competency and proficiency within the domain of therapeutic modalities. Students will complete field experiences under the direct supervision of a clinical instructor. Four credits.

HES 427. CLINICAL EDUCATION IV—PART II.

Clinical Education course designed to assess the athletic training students' competency and proficiency within the domain of therapeutic exercise and rehabilitation. Students will complete field experiences under the direct supervision of a clinical instructor. Four credits.

HES 431. SPORTS NUTRITION.

Prerequisites: HES 288 and 300.

This course will cover the relationship between macronutrient and micronutrient intakes and athletic performance. Detailed knowledge of how exercise influences dietary intake, digestion, absorption, energy metabolism, and storage of nutrients will be discussed. In addition, dietary planning for weight gain and weight loss, sport specific concerns and conditions that present to athletes of all age groups regarding nutrition, and the use of dietary supplements as ergogenic aids will be explored. (Spring)

HES 436. CLINICAL EXERCISE PHYSIOLOGY.

Prerequisites: HES 300 and 320.

This course will explore the use of exercise as a treatment modality for specific symptomatic and asymptomatic clinical conditions. Functional assessment, exercise prescription and adaptations to chronic physical activity will be discussed with respect to endocrinological, neuromuscular, skeletal, metabolic, cardiovascular, respiratory, oncological, and immunological disorders and diseases. Special considerations for children, females, and the elderly will also be covered. (Spring)

HES 454. ATHLETIC TRAINING PRACTICUM.

Practicum allowing athletic training students to gain experience and proficiency in the field of athletic training. Students will be assigned to a clinical supervisor for the practicum. This course may be repeated four times for credit. Four credit hours. (Fall and Spring)

HES 460. ORGANIZATION AND ADMINISTRATION IN ATHLETIC TRAINING.

Prerequisite: Senior standing in Athletic Training major.

This course is designed to provide a capstone experience for athletic training students. Emphasis is placed the domains of Health Care Administration and Professional Development. Two credits.

HES 499. SENIOR HONORS THESIS.

Intensive study of a topic chosen by the student which culminates in an honors paper and an oral defense. Senior majors only. Three credits.

HISTORY**HIS 101. WORLD CIVILIZATIONS I: EARLY CIVILIZATIONS THROUGH THE AGE OF EXPLORATIONS.**

A survey of the development of human civilizations with an emphasis on the course of Western civilization but with a focus on the relevance of the global community and diverse cultures for an increasingly interactive and interdependent humanity. Three credits. (Fall, Spring, Summer)

HIS 102. WORLD CIVILIZATIONS II: FROM THE 16th CENTURY TO MODERN TIMES.

Prerequisite: HIS 101 or permission of instructor.

A survey of the development of human civilization with an emphasis on the course of Western civilization but with a focus on the relevance of the global community and diverse cultures for an increasingly interactive and interdependent humanity. Three credits. (Fall, Spring, Summer)

HIS 121. U. S. HISTORY TO 1865.

American institutional development from the period of colonization to 1865. Interrelated trends in economics, politics, religion, education, and society. Three credits. (Fall, Spring)

HIS 122. U. S. HISTORY SINCE 1865.

Continuation of U. S. History survey from 1865 to present. Three credits. (Spring)

HIS 212. TOPICS IN MODERN BRITISH HISTORY.

Selected topics in British history focusing primarily on the modern era. Three credits. (On demand)

HIS 230. THE TWENTIETH CENTURY: A GLOBAL HISTORY.

A survey course designed to look at the 20th century in a global perspective, which, while concentrating on the major events of the Western world, will cover aspects of the non-Western world as well. Three credits. (Fall)

HIS 248. NORTH CAROLINA.

European backgrounds; early settlements in Eastern Carolina; German and Scots-Irish settlements in the Piedmont section; economic and political developments during the colonial period; North Carolina and the American Revolution; economic and social reforms before the Civil War; the Civil War and Reconstruction in North Carolina; the late 19th century; and the emergence of the state in the 20th century. Three credits. (Fall)

HIS 250. LATIN AMERICA.

A survey of Latin American history from exploration to the present. One half of the course is devoted to the development of Indian/Iberian institutions and the emergence of the revolutionary movements of the 19th century. The latter half of the course is devoted to the emergence of the modern states of Mexico, Argentina, Brazil, Chile, and the Caribbean republics. Three credits. (Odd Spring)

HIS 251. HISTORY OF ASIAN CIVILIZATIONS.

An introduction to the political cultures and experiences of Asia and the Far East with emphasis on selected topics. Three credits. (Even Fall)

HIS 252. HISTORY OF AFRICAN CIVILIZATIONS.

An introduction to the political cultures and experiences of Africa (primarily non-Mediterranean) with emphasis on selected topics. Three credits.

HIS 262. TOPICS IN MODERN RUSSIAN HISTORY.

Selected topics in Russian history focusing primarily on the modern era. Three credits. (On demand)

HIS 266. ARCHAEOLOGY.

The science and methodology of archaeology; its potential and limitations, followed by the student's application of such to his or her choice of a Biblical or historical problem. Three credits. Cross-listed with Religion 266.

HIS 306. TOPICS IN U. S. HISTORY BEFORE 1877.

Prerequisites: HIS 121, 122 or permission of the instructor.

This course will examine, on a selective topics basis, the history of the United States before 1877. The emphasis of the course may vary from year to year. Course may be repeated on different topics with permission of the instructor. Three credits. (Fall)

HIS 308. TOPICS IN U. S. HISTORY AFTER 1877.

Prerequisites: HIS 121, 122 or permission of the instructor.

This course will examine, on a selective topics basis, the history of the United States after 1877. The emphasis of the course may vary from year to year. Course may be repeated on different topics with permission of the instructor. Three credits. (Spring)

HIS 331. TOPICS IN EUROPEAN HISTORY BEFORE 1700.

Prerequisite: HIS 102.

A selective topics approach to the political, cultural, social, religious, military and economic history of Europe prior to 1700. The emphasis of the course may vary

from year to year. Course may be repeated on different topics with permission of the instructor. Three credits. (Fall)

HIS 333. TOPICS IN EUROPEAN HISTORY AFTER 1700.

Prerequisite: HIS 102.

A selective topics approach to the political, cultural, social, religious, military and economic history of Europe from 1700 until the present. The emphasis of the course may vary from year to year. Course may be repeated on different topics with permission of the instructor. Three credits. (Spring)

HIS 340. A DIPLOMATIC HISTORY OF THE UNITED STATES.

An examination of the development of a foreign policy for the United States in the Washington-Jefferson eras, and the growth of that policy from the Monroe Doctrine to the end of the 19th century. The greatest emphasis of the course will be on empire after 1898, involvement in two world wars, and the emergence of the United States as an international power. Three credits. (Odd Fall)

HIS 351. TOPICS IN NON-WESTERN HISTORY.

Prerequisite: Permission of instructor.

This course will examine various topical areas of non-Western history with emphasis to vary from year to year. Course may be repeated on different topics with permission of the instructor. Three credits. (Spring)

HIS 367. ORAL HISTORY.

An applied history course in which the student learns the techniques of oral history and applies this discipline to a practical topic for research. Three credits.

HIS 380. DIRECTED READING AND RESEARCH.

For students desiring work on topics of special individual interest. Three credits.

HIS 381, 382, 383, 384. SPECIAL TOPICS.

This course will examine, on a selective topics basis, various historical problems of interest to faculty and students. One, two, three, or four credits.

HIS 400. SEMINAR IN HISTORICAL RESEARCH. HISTORIOGRAPHY, AND HISTORICAL INTERPRETATION.

A comprehensive overview of the historical method. Building upon skills developed in other history courses, the student will study the collecting, processing, and synthesis of historical evidence, efforts which will culminate in a major research paper of an historiographical nature. Three credits. (Spring)

HIS 450. INTERNSHIP OR FIELD EXPERIENCE IN HISTORY.

Prerequisite: 15 credits in Applied or Modern History or permission of the instructor.

An applied-history field experience supervised directly by the professor or an internship at a local museum or business supervised jointly by the professor and a museum or business professional. The professor regularly checks the student's progress through conferences with the student and, when applicable, with the professional supervisor and through reviewing the student's required log. Three credits; may be repeated for another 3 hours of credit.

HIS 498. SENIOR HONORS RESEARCH.

Directed readings for History honors students within the general area in which the student plans to do honors research. A survey of the secondary literature and an

examination of the basic primary sources and bibliographic tools within the general period will be a part of the course. Three credits.

HIS 499. SENIOR HONORS THESIS.

Prerequisite or corequisite: HIS 498.

Intensive study of a topic or period chosen by the student culminating in an honors program. Three credits.

HONORS

HON 191, 192, 291, 292, 391, 392, 491, 492. GREAT BOOKS.

This Honors course follows the principles of the Great Books program associated with the University of Chicago. Students and faculty read and discuss texts from various disciplines including Literature, History, Philosophy, Psychology, and Religion in a seminar-like setting. One credit.

HON 301. JUNIOR HONORS SEMINAR.

This seminar aims to challenge students to consider how they grew as a scholar and a person as well as how they have contributed to and participated in the mission of Lenoir-Rhyne. It is intended to stimulate ethical thinking about the college experience. In this seminar, students will consider ways in which they might present work and achievements to others such as potential employers or graduate schools. Graded as Satisfactory or Unsatisfactory only. No credit.

HUMAN AND COMMUNITY SERVICE

HCS 220. CONCEPTS IN HUMAN AND COMMUNITY SERVICE.

Prerequisite: PSY 101.

This course will introduce the student to the historical development of the human service profession and the models of service delivery. Topics will include the philosophy, values, concepts, language, problems, and broad scope of human services, as well as exposure to various agencies and agency policies. This will be followed by a focus on the participants in the delivery of human services: the worker and the client. The final part of the course will explore the world of the beginning professional, including job functions necessary in the profession. Three credits. (Fall, Spring)

HCS 304. INTRODUCTION TO SOCIAL WORK IN HUMAN SERVICE AGENCIES.

Prerequisite: SOC 100.

An overview of social work as a cause, a function, and a profession. Topics of study include the philosophy, values, and history of social work, the relationship to social welfare, the process and methods of practice, and evaluation and professionalism. Four credits. Cross-listed with Sociology 304. (Fall, Spring)

HCS 320. APPLICATIONS OF HUMAN AND COMMUNITY SERVICE.

Prerequisite: HSC 220.

This second course will focus attention on specific skills and issues of concern for the human and community service professional including oral and written communication skills, legal and ethical issues, organizational administration, leadership, group interaction, and administrative and legislative process. Three credits. (Fall, Spring)

HCS 457. INTERNSHIP IN HUMAN AND COMMUNITY SERVICE.

Prerequisite: HCS 320.

Field work in some area of specialization in a school, business, social, mental health, or criminal justice setting. One class period per week dealing with professional and ethical concerns will also be required. Internships require daytime availability. Four credits. (Fall, Spring, Summer)

LATIN**LAT 101 & 102. ELEMENTARY LATIN.**

Classical Latin. Essentials of vocabulary and grammar. Precept, recitation-discussion format. Skills built through reading and translation in a continuous story line developed around imagined daily lives in Southern Italy in the First Century B.C. Cultural presentation through captioned cartoons and background essays. Emphasis upon enhanced understanding of English through word building and language analysis. Meets five days per week. Six credits. (Fall)

LAT 201 & 202. INTERMEDIATE LATIN.

Expansion upon, and refinement of, fundamentals already acquired. Study of increasingly complex sentence patterning. Consideration of distinctive features in effective and dramatic narrative expression. Story line continuation in Rome and Athens. Topical information and idiom analysis as above. Meets five days per week. Six credits. (Spring)

LAT 311. ADVANCED READINGS I.

Prerequisites: LAT 201, 202.

A narrative panorama of Rome at the end of the Republic, and the docudrama of a famed and interesting person who lived through exciting times, even through the interplay of historical and fictional characters. Engrossment in morphology, syntax, phonology, semantics, and etymology. Continuing introduction of background material. Three credits. (Fall)

LAT 312. ADVANCED READINGS II.

Prerequisite: LAT 311.

The "Quintus" of first-semester Latin becomes the Horace of Roman literature. Groomed by the dynasts of the emerging empire, he composes personal lyrical and satirical poetry while the Augustan revolution swirls on about him. Prose paraphrase smoothes the way before the challenges of formal verse. (Spring)

LAT 383. SPECIAL TOPICS.

Directed study and research on topics or projects of special interest. For majors on request with permission of the instructor. May be repeated once with different content. Three credits. (On demand)

LAT 409. PROSE AND POETRY OF THE REPUBLIC AND EMPIRE.

Prerequisite: LAT 312.

A survey of classical Latin literature. Prose writers represented by Cicero, Caesar, and Livy. Selections from Catullus, Ovid, and Vergil for study of verse - and introduction to metrics. Three credits. (Fall)

LAT 410. MASTERWORKS OF LATIN LITERATURE.

Prerequisite: LAT 409.

Advanced study of either Vergil's *Aeneid* or of Petronius' *Cena Trimalchionis*. Three credits. (Spring)

LAT 499. SENIOR HONORS THESIS.

Intensive study of a particular topic or project appropriate to the major, culminating in an honors thesis, project, etc. Three credits. (By invitation)

LENOIR-RHYNE COURSES

LRC 101. THE FRESHMAN EXPERIENCE.

Offers students self assessment, problem solving, and decision-making skills. Provides a review of major courses of study and career possibilities, exposure to campus resources and facilities, and an introduction to study skills. Designed to increase students' awareness of personal aspirations and goal setting techniques, to facilitate adjustment to college, and select a major. One credit. (Fall, Spring)

LRC 120. INTRODUCTION TO DEBATE AND ARGUMENTATION.

An introduction to the art of debate and argumentation. Emphasis will be on the ability to analyze, criticize, and advocate ideas to understand the relationship of language to logic. Three credits. (Fall)

LRC 210. ACADEMIC SEMESTER ABROAD.

An orientation for students preparing to spend an academic semester abroad. Overview of issues related to study, travel, health, safety, living, laws, customs, and cross-cultural adjustment skills. Required of all students in the semester prior to departure. One Credit. (Fall, Spring)

LRC 410. SENIOR SEMINAR.

This course is available to juniors and seniors and is designed to assist students in preparing for the transition into the world of work or professional school. The course will be conducted in a seminar format and will make use of a number of resource persons. Topics to be considered include a consideration of work as a vocation (calling), resume preparation, searching and interviewing for a job, coping with the work environment, selection of and application to graduate/professional school, and lifestyles after college. Students also will be asked to participate in an assessment of their college experience. One credit.

LRC 471-476. TRAVEL/STUDY EXPERIENTIAL LEARNING.

Directed travel and study in designated field location including evaluation of experiential learning. Open to all students with permission of the instructor. May be repeated up to three times with different content. One to six credits.

LRC 480. INDEPENDENT STUDY.

For use in Interdisciplinary Studies programs. A project related to student's area of concentration. Three credits.

MATHEMATICS

Enrollment in a Mathematics course as a freshman is determined by the SAT scores. Students wishing to take a course higher than that recommended by their SAT score may request to sit for a challenge exam.

MAT 090. INTERMEDIATE ALGEBRA.

This course establishes a foundation in algebraic concepts and problem solving, with emphasis on applications. Topics include signed numbers, exponents, orders of operation, simplifying expressions, solving linear equations and inequalities, graphing, formulas, polynomials, factoring, rational expressions, rational, radical and quadratic functions, variations, complex numbers, and elements of geometry. Upon completion, students should be able to apply these concepts in problem solving using appropriate technology. Students must complete MAT 090 by the end of the fall semester of their sophomore year. Four institutional credits. **This course does not count toward core or graduation requirements**, but the grade and quality points will be included in the students cumulative GPA. (Fall, Spring)

MAT 105. COLLEGE ALGEBRA.

Equations and inequalities; polynomial, rational, exponential and logarithmic functions; graphing; systems of equations and inequalities. Upon completion students should be able to apply these concepts in problem solving and analysis. Course does not fulfill L-R core math credit. Three hours.

MAT 115. ELEMENTARY STATISTICS.

Prerequisite: Either a Math SAT score of at least 500 points (or the equivalent), satisfactory completion (C– or better) of MAT 090, or passing the challenge test for Elementary Statistics.

An introduction to some of the basic concepts and procedures common to many applications of statistics. Topics include descriptive statistics, a brief study of probability, distributions of selected discrete and continuous random variables, confidence intervals, hypothesis testing, correlation, and regression. This course is designed to meet the needs of all liberal arts students. A student may not receive credit for MAT 115 after successful completion of MAT 215. Three credits. (Fall, Spring)

MAT 120. CONCEPTUAL FOUNDATIONS OF MATHEMATICS.

Prerequisite: Either a Math SAT score of at least 500 points (or the equivalent), satisfactory completion (C– or better) of MAT 090, or passing the challenge test for Conceptual Foundations of Mathematics.

Problem solving with and operations on whole numbers, integers, rational numbers, and decimals; prime numbers and elementary number theory; other bases and exponents; equations and inequalities over the real number system; elementary combinatorics, probability and statistics; introductory coordinate geometry; basic introduction to geometric concepts including geometric constructions, problem solving with geometric measurements or perimeter, surface area and volume. **Meets core requirement for elementary and middle school education majors only.** Not applicable as mathematics credit towards majors in biology, chemistry, mathematics, or physics. Four credits. (D-Spring; E-Fall odd year)

MAT 125. FINITE MATHEMATICS.

Prerequisite: Either a Math SAT score of at least 500 points (or the equivalent), satisfactory completion (C– or better) of MAT 090, or passing the challenge test for Finite Mathematics.

A one-semester course which studies systems of linear equations, matrices, linear programming, and mathematics of finance, and offers applications to problems of modern society and business. (Not applicable as mathematics credit toward majors in chemistry, mathematics, or physics.) Three credits. (Fall, Spring; E-Fall)

MAT 126. APPLIED CALCULUS.

Prerequisite: MAT 115 or 125 with a grade of C– or better or permission of the instructor.

An introductory course in the differential and integral calculus of polynomial, exponential, and logarithm functions. Emphasis is placed on application of the techniques of calculus (Not applicable as mathematics credit toward majors in chemistry, mathematics, or physics). Three credits. (Spring)

MAT 129. PRE-CALCULUS MATHEMATICS.

Prerequisite: Either a Math SAT score of at least 500 points (or the equivalent), satisfactory completion (C– or better) of MAT 090, or passing the challenge test for Pre-Calculus Mathematics.

A study of selected topics from algebra and trigonometry including equations and inequalities of the first and second degree, linear and quadratic functions, systems of linear equations, the Fundamental Theorem of Algebra, exponential and logarithmic functions, right triangle trigonometry, trigonometric functions of real numbers, trigonometric identities, and trigonometric equations. Four credits. (Fall)

MAT 165. CALCULUS I.

Prerequisite: Either a Math SAT score of at least 540 points (or the equivalent) and a knowledge of Trigonometry, satisfactory completion (C– or better) of MAT 129, or passing the challenge test for Calculus.

A study of the calculus of elementary real-valued functions. Topics studied will include the limit concept, the derivative, and the integral. This course is designed to meet the needs of all liberal arts students. Four credits. (Fall, Spring)

MAT 166. CALCULUS II.

Prerequisite: MAT 165 with a grade of C– or better or permission of instructor.

A continuation of MAT 165, which emphasizes techniques of integration, applications of the integral, inverse functions, sequences and series (including tests for convergence and power series). Four credits. (Fall, Spring)

MAT 200. DISCRETE MATHEMATICAL STRUCTURES.

Prerequisite: MAT 126 or 165 with a grade of C– or better or permission of instructor.

A one-semester course which will include the following topics: relations, functions, algorithms, mathematical induction, elementary combinatorics, graphs, and trees. Four credits. (Fall)

MAT 215. APPLIED STATISTICS.

Prerequisite: Either a Math SAT score of at least 500 points (or the equivalent), satisfactory completion (C– or better) of MAT 090, or passing the challenge test for Applied Statistics.

This course places an emphasis on core statistical methods needed to analyze and interpret statistical findings, research and everyday problems in academia, business and society. This is achieved through solving a set of problems and discussing the appropriate statistical methods for various types of data and different experiments. Students will also learn how to use computer based analysis tools to help solve these problems and visualize the results. Topics include normal probabilities, multiple regression, analysis of variance, non-parametric statistics, and an introduction to clustering, as well as their appropriate tests. A student may not receive credit for MAT 115 after successful completion of MAT 215. Four credits. (Fall, Spring)

MAT 220. INTRODUCTION TO MATHEMATICAL REASONING.

Prerequisite: MAT 165 with a grade of C– or better or permission of instructor.

A course designed to help a student make the transition from calculus to abstract mathematics. Students learn some logic and get experience with traditional language and standard proof methods in mathematics. Three credits. (Spring)

MAT 240. COLLEGE GEOMETRY.

Prerequisite: MAT 129 with a grade of C– or better or permission of instructor.

A study of topics in finite geometry postulational systems and their properties, geometric transformations, non-Euclidean geometry, plane projective geometry, constructions, and polygons. Three credits. (Even Fall)

MAT 265. CALCULUS III.

Prerequisite: MAT 166 with a grade of C– or better or permission of instructor.

This course will cover the following topics: conic sections, vectors, vector-valued functions, and differential and integral calculus of multivariable functions.

Four credits. (Fall)

MAT 270. DIFFERENTIAL EQUATIONS.

Prerequisite: MAT 166 with a grade of C– or better or permission of instructor.

A course designed to explore a variety of techniques in determining exact and approximate solutions to certain ordinary differential equations and systems of ordinary differential equations with special attention given to numerical methods using the computer. Three credits. (Spring)

MAT 280. LINEAR ALGEBRA.

Prerequisites: MAT 165 with a grade of C– or better or permission of instructor, and MAT 220 or CSC 120.

A one semester course which examines the basic concepts of linear algebra. These include vector spaces over the real numbers, linear transformations (functions), the determinant function, eigenvalues, and eigenvectors. Three credits. (Spring)

MAT 300. THEORY OF NUMBERS.

Prerequisite: MAT 220 with a grade of C– or better or permission of the instructor.

A course covering some of the widely known theorems, conjectures, unsolved problems, and proofs of number theory. Topics covered will include divisibility, prime numbers, congruencies, diophantine equations, and arithmetic functions. Three credits. (Even Spring)

MAT 330. PROBABILITY AND STATISTICS I.

Prerequisite: MAT 166 with a grade of C or better or permission of instructor.

The course includes introductory topics in combinatorial analysis, distributions of discrete and continuous random variables, expectation, and functions of random variables. Three credits. (Odd Fall)

MAT 331. PROBABILITY AND STATISTICS II.

Prerequisite: MAT 330 with a grade of C– or better or permission of instructor.

A continuation of the study begun in MAT 330. Topics include point and interval estimation, hypothesis testing, regression and correlation, and one and two-way analysis of variance. Three credits. (On demand)

MAT 345. ADVANCED ANALYSIS.

Prerequisite: MAT 220 with a grade of C– or better or permission of the instructor.

A study of fundamental concepts of analysis including the topology of Euclidean Space, functions of bounded variation, sequences of functions, integration, and Fourier series. Three credits. (Odd Spring)

MAT 370. ABSTRACT ALGEBRA I.

Prerequisites: MAT 280 with a grade of C– or better, and MAT 220 with a grade of C– or better, or permission of instructor.

A one semester course which concentrates on the concept of algebraic structures (with groups as primary emphasis), properties of the integers, induction, the division algorithm, greatest common divisors, and equivalence classes. Three credits. (Even Fall)

MAT 371. ABSTRACT ALGEBRA II.

Prerequisite: MAT 370 with a grade of C– or better or permission of instructor.

This course is an extension of MAT 370 and is designed for senior mathematics majors who expect to do graduate work. Topics include rings, fields, polynomials, and an introduction to the Galois theory. Three credits. (Odd Spring)

MAT 381, 382, 383, 384. SPECIAL TOPICS.

This course permits the study of selected areas of mathematics not offered on a regular basis. Topics might include such subjects as vector analysis, complex analysis, topology, etc. One, two, three, or four credits. (Offered on demand)

MAT 390. JUNIOR SEMINAR.

An exploration of a wide variety of topics suitable for undergraduate research in Mathematics. Students will read articles and give oral presentations. Each student will select a senior research topic and advisor. One credit.

MAT 400. HISTORY AND PHILOSOPHY OF MATHEMATICS.

Prerequisite: Nine hours of Mathematics at or above 165 with a grade of C– or better.

A study of the development of mathematics from its earliest known introduction to the present time. Emphasis is placed on relationship between mathematical and political events, as well as the development and spread of mathematical concepts and techniques. Three credits. (Odd Fall)

MAT 490. SENIOR RESEARCH.

Independent research on a mathematical subject of interest to the student under the guidance of a Mathematics faculty member. Upon completion of the research, the student must prepare a written report and make an oral presentation on the research. One credit. (Registration by permission of instructor only)

MAT 498. SENIOR HONORS RESEARCH.

Independent original research on the student's honors thesis topic under the direction of a Mathematics faculty member. Two credits. (On demand)

MAT 499. SENIOR HONORS THESIS.

A continuation of MAT 498 culminating in a written thesis on original work in Mathematics. The student will present the thesis orally before students and faculty. Two credits. (On demand)

MUSIC

MUS 090. MUSIC FUNDAMENTALS.

A study in the rudiments of music theory which includes clef reading, major and minor scales, key signatures, intervals, chords, and an introduction to aural identification of the rudiments. It is designed for all entering freshmen majoring in music and for music minors. Computerized drill and programmed testing in music rudiments are utilized. Students with a background in music rudiments may attempt a proficiency exam for this course. This course does not count toward graduation credits, but the grade and quality points will be included in the students cumulative GPA. Two credits. (Fall)

MUS 103. HARMONY AND ANALYSIS I.

Prerequisite: MUS 090 or proficiency.

A thorough study of compositional devices and their relevance to style in music from the Renaissance to the present. Harmonic analysis, formal analysis, common practice period part-writing, and basic compositional structures are addressed. Three credits. (Spring)

MUS 104. AURAL SKILLS I.

Prerequisite: MUS 090 or proficiency.

Systematic training, including computer assisted instruction, in sight singing and in the aural techniques of music for one to four voices; development of thinking musically; meeting difficulties in pitch and rhythm. One credit. (Spring)

MUS 105. CLASS PIANO I.

Designed to provide keyboard experience in the formation of intervals, chords, and scales and their application to simple melodies and harmonies. This course prepares the student to meet teacher education competencies in piano proficiency and for the piano proficiency exam. This course is eligible for credit by examination. One credit. (Spring)

MUS 106. CLASS PIANO II.

Continuation of Music 105. This course is eligible for credit by examination. One credit. (Fall)

MUS 111. INTRODUCTION TO MUSIC LITERATURE.

An introduction to the basic elements of music and to musical forms and terminology. Special emphasis on knowledge of the literature of music. Designed to provide background essential to professional study. Two credits. (Fall)

MUS 120. APPLIED MUSIC PREPARATORY DIVISION.

Private instruction in voice, piano, organ, and orchestral instruments (brass, woodwinds, percussion, and strings). One to two lessons per week with a minimum of one hour of practice per day for each one-half hour private lesson. Preparatory Division Applied Music does not fulfill the requirements for the music major or for the music minor. Preparatory Division students are not required to perform student recitals or final jury exams. Zero credit. (Fall, Spring)

MUS 121. APPLIED MUSIC PREPARATORY DIVISION.

Private instruction in voice, piano, organ, and orchestral instruments (brass, woodwinds, percussion, and strings). One to two lessons per week with a minimum of one hour of practice per day for each one-half hour private lesson. Preparatory

Division Applied Music does not fulfill the requirements for the music major or for the music minor. Preparatory Division students are not required to perform student recitals or final jury exams. One credit. (Fall, Spring)

MUS 122. APPLIED MUSIC PREPARATORY DIVISION.

Private instruction in voice, piano, organ, and orchestral instruments (brass, woodwinds, percussion, and strings). One to two lessons per week with a minimum of one hour of practice per day for each one-half hour private lesson. Preparatory Division Applied Music does not fulfill the requirements for the music major or for the music minor. Preparatory Division students are not required to perform student recitals or final jury exams. Two credits. (Fall, Spring)

MUS 130. APPLIED MUSIC—LOWER DIVISION.

Private instruction in voice, piano, organ, and orchestral instruments (brass, woodwinds, percussion, and strings). One to three lessons per week with a minimum of one hour of practice per day for each one-half hour private lesson. Applied music students are required to perform in a student recital once each semester and are required to submit a final jury exam (end of semester performance). An audition is required for lower division applied music. Zero credit. (Fall, Spring)

MUS 131. APPLIED MUSIC—LOWER DIVISION.

Private instruction in voice, piano, organ, and orchestral instruments (brass, woodwinds, percussion, and strings). One to three lessons per week with a minimum of one hour of practice per day for each one-half hour private lesson. Applied music students are required to perform in a student recital once each semester and are required to submit a final jury exam (end of semester performance). An audition is required for lower division applied music. One credit. (Fall, Spring)

MUS 132. APPLIED MUSIC—LOWER DIVISION.

Private instruction in voice, piano, organ, and orchestral instruments (brass, woodwinds, percussion, and strings). One of three lessons per week with a minimum of one hour of practice per day for each one-half hour private lesson. Applied music students are required to perform in a student recital once each semester and are required to submit a final jury exam (end of semester performance). An audition is required for lower division applied music. Two credits. (Fall, Spring)

MUS 133. APPLIED MUSIC—LOWER DIVISION.

Private instruction in voice, piano, organ, and orchestral instruments (brass, woodwinds, percussion, and strings). One of three lessons per week with a minimum of one hour of practice per day for each one-half hour private lesson. Applied music students are required to perform in a student recital once each semester and are required to submit a final jury exam (end of semester performance). An audition is required for lower division applied music. Three credits. (Fall, Spring)

MUS 150. ENSEMBLES.

Prerequisite: Permission of the instructor.

Concert band, choir, jazz ensemble, pep band, brass ensemble, percussion ensembles, handbell ensembles, orchestra, pit orchestra, and various other performing ensembles are offered (some ensembles by audition) to all students of the College with or without credit. Ensembles meet for a minimum of two hours weekly for one credit hour. Requirements for students electing non-credit are the same as for students electing credit. Students who are instrumental principals and majors are

required to participate each semester in the Concert Band unless excused by the director. Vocal principals and majors are required to participate each semester in the A Cappella Choir unless excused by the director. Zero credit. (Fall, Spring)

MUS 151. ENSEMBLES.

Prerequisite: Permission of the instructor.

Concert band, choir, jazz ensemble, pep band, brass ensemble, percussion ensembles, handbell ensembles, orchestra, pit orchestra, and various other performing ensembles are offered (some ensembles by audition) to all students of the College with or without credit. Ensembles meet for a minimum of two hours weekly for one credit hour. Requirements for students electing non-credit are the same as for students electing credit. Students who are instrumental principals and majors are required to participate each semester in the Concert Band unless excused by the director. Vocal principals and majors are required to participate each semester in the A Cappella Choir unless excused by the director. One credit. (Fall, Spring)

MUS 200. MUSIC APPRECIATION.

Fundamentals essential to the introduction and development of musical thought and judgment; aesthetic significance and other values; principal forms and historical movements; interpretation of current musical efforts. Three credits. (Fall, Spring)

MUS 201. HARMONY AND ANALYSIS II.

Prerequisite: MUS 103 or proficiency exam.

Continuation of Music 103. Three credits. (Fall)

MUS 202. AURAL SKILLS II.

Prerequisite: MUS 104 or proficiency exam.

Continuation of Music 104. One credit. (Fall)

MUS 203. HARMONY AND ANALYSIS III.

Prerequisite: MUS 201 or proficiency exam.

Continuation of Music 201. Three credits. (Spring)

MUS 204. AURAL SKILLS III.

Prerequisite: MUS 202 or proficiency.

Continuation of Music 202. One credit. (Spring)

MUS 210. BRASS TECHNIQUES.

The brass methods class is designed to provide a working knowledge of all the brass instruments of the standard band instrumentation for teaching purposes. Two class hours per week. One credit. (Even Fall)

MUS 211. PERCUSSION TECHNIQUES.

The percussion class is designed to provide a working knowledge of all major percussion instruments of the standard band instrumentation for teaching purposes. Two class hours per week. One credit. (Odd Fall)

MUS 212. STRING TECHNIQUES.

To provide a working knowledge of the string instruments for teaching purposes. Two class hours per week. One credit. (Even Spring)

MUS 213. WOODWIND TECHNIQUES.

To provide for teaching purposes a working knowledge of the basic single and double reed instruments and flute. Two class hours per week. One credit. (Odd Spring)

MUS 214. VOCAL TECHNIQUES.

Vocal methods is designed to provide a working knowledge of the voice and basic vocal pedagogy. This class emphasizes the study of voice production and basic principles of singing as well as work with voices. Two class hours per week. One credit. (Fall)

MUS 254. MUSIC HISTORY AND LITERATURE I.

Prerequisites: One year of theory, MUS 111 or 200, or permission of the instructor.
A historical survey of music history and literature from the beginning of civilization to the present time. Three credits. (Fall)

MUS 255. MUSIC HISTORY AND LITERATURE II.

Prerequisites: One year of theory, MUS 111 or 200, or permission of the instructor.
A continuation of MUS 411. A historical survey of music history and literature from the beginning of civilization to the present time. Three credits. (Spring)

MUS 270. WORSHIP.

A study of the theology and practice of Christian worship, beginning with its Jewish roots. Emphasis will be given to the historic development of liturgy, including a comparison of current orders of worship. Other topics to be covered are the church year, worship planning, musical settings of the liturgy, worship space and acoustics, and a theological framework for the use of music in worship. Three credits. Cross-listed with Religion 270. (Even Fall)

MUS 271. DEVELOPMENT OF CHILDREN'S CHOIRS.

A study of the theoretical and practical development of children's voices, dealing with vocal production, literature, choral techniques, and the practical details of organizing and managing a church or community chorus. Two credits. (Even Fall)

MUS 272. HYMNODY.

A survey of the hymnody of the Western Church, from its historical roots in Hebrew and Greek hymns to the present. The course will include a study of Gregorian chant, Reformation hymns, Genevan and English Psalters, Evangelical and Anglican hymns, early American and Gospel hymns, African-American spirituals, and contemporary hymnody. Two credits. (Odd Spring)

MUS 273. CHANTING.

A study of plainsong and its place in worship today. Students will sing liturgical examples from various systems of chant (i.e., Gregorian, Anglican, Gelineau), as well as prepare intoned material from contemporary worship orders. This course will deal with basic elements of vocal production and projection on a group level. The role of the cantor will be highlighted. One credit. (Odd Spring)

MUS 301. ORCHESTRATION.

Prerequisite: Two years of theory or permission of instructor.
Instrumentation of orchestra and band; scoring music for instrumental groups. Two credits. (Spring)

MUS 302. ADVANCED FORM AND ANALYTICAL TECHNIQUE.

Prerequisite: Two years of theory or permission of instructor.
The development of techniques of analysis of music. Two credits. (On demand)

MUS 303. COUNTERPOINT.

Prerequisite: Two years of theory.

Techniques of contrapuntal composition; analysis of polyphonic compositions of the 16th, 18th, and 20th centuries. Two credits. (On demand)

MUS 330. APPLIED MUSIC—UPPER DIVISION.

Private instruction in voice, piano, organ, and orchestral instruments (brass, woodwinds, percussion, and strings). One to three lessons per week with a minimum of one hour of practice per day for each one-half hour private lesson. Applied music students are required to perform in a student recital once each semester and are required to submit a final jury exam (end of semester performance). Successful completion of a sophomore level “Upper Divisional” jury is required for registration in upper division applied music. Zero credit. (Fall, Spring)

MUS 331. APPLIED MUSIC—UPPER DIVISION.

Private instruction in voice, piano, organ and orchestral instruments (brass, woodwinds, percussion, and strings). One to three lessons per week with a minimum of one hour of practice per day for each one-half hour private lesson. Applied music students are required to perform in a student recital once each semester and are required to submit a final jury exam (end of semester performance). Successful completion of a sophomore level “Upper Divisional” jury is required for registration in upper division applied music. One credit. (Fall, Spring)

MUS 332. APPLIED MUSIC—UPPER DIVISION.

Private instruction in voice, piano, organ and orchestral instruments (brass, woodwinds, percussion, and strings). One to three lessons per week with a minimum of one hour of practice per day for each one-half hour private lesson. Applied music students are required to perform in a student recital once each semester and are required to submit a final jury exam (end of semester performance). Successful completion of a sophomore level “Upper Divisional” jury is required for registration in upper division applied music. Two credits. (Fall, Spring)

MUS 333. APPLIED MUSIC—UPPER DIVISION.

Private instruction in voice, piano, organ and orchestral instruments (brass, woodwinds, percussion, and strings). One to three lessons per week with a minimum of one hour of practice per day for each one-half hour private lesson. Applied music students are required to perform in a student recital once each semester and are required to submit a final jury exam (end of semester performance). Successful completion of a sophomore level “Upper Divisional” jury is required for registration in upper division applied music. Three credits. (Fall, Spring)

MUS 370. HISTORY OF SACRED MUSIC.

Prerequisite: Music 111 or 200 or permission of the instructor.

A survey of music composed for worship and/or inspired by faith over the centuries. Special emphasis will be placed on the sacred music of various Christian traditions, from Gregorian Chant to the growing African scene. Three credits. (Odd Fall)

MUS 371. RESOURCES AND REPERTOIRE.

Prerequisites: Music 270, 272 or permission of the instructor.

Provides some of the necessary tools for church music ministry, including anthem selection, organ and vocal repertoire, and sacred music repertoire for keyboard with instruments. This course will also focus on musical and liturgical resources needed for worship planning—denominational hymnal companions, lectionary resources, and other worship aids. Two credits. (Even Spring)

MUS 372. SERVICE PLAYING.

Prerequisite: Permission of the instructor.

A lab course focusing on the various elements of service playing: hymn and anthem accompaniments, conducting from the keyboard, liturgical playing, modulations and reharmonizations, and registration. One credit. (Odd Fall)

MUS 381, 382, 383, 384. SPECIAL TOPICS.

Seminar and/or projects in selected topics related to music theory, music history, music composition, music performance, and music pedagogy. One, two, three, or four credits. (Fall, Spring)

MUS 397. JUNIOR RECITAL.

Junior level half or full recital. One credit. (Fall, Spring)

MUS 401. COMPOSITION.

Prerequisites: MUS 303 or permission of the instructor.

Original writing to illustrate the different forms and styles of music. Two credits. (On demand)

MUS 420. CHORAL CONDUCTING AND LITERATURE.

A study of the art of choral conducting: coordination of hand technique, breath control, sound control, diction, phrasing, and dynamics. Discussion of the organization and development of choral groups with research or choral methods and materials. Teacher Education competencies in choral conducting and graded literature are addressed. Three credits. (Odd Spring)

MUS 421. INSTRUMENTAL CONDUCTING AND LITERATURE.

The emphasis of study will be on baton and rehearsal techniques, score reading and knowledge of various instrumental group voicing. Teacher Education competencies in instrumental conducting and graded literature are addressed. Three credits. (Even Spring)

MUS 422. ELEMENTARY AND INTERMEDIATE CLASSROOM MUSIC METHODS.

Survey of the organization, administration, and supervision of early childhood and intermediate music programs; emphasis on Orff-Schulwerk and Kodaly systems of music education and the development of teaching skills. Two credits. (Odd Fall)

MUS 423. CHORAL MUSIC METHODS.

Aims and problems of music in high school; materials and methods in high music program administration. Two credits. (Even Fall)

MUS 424. INSTRUMENTAL METHODS.

Methods, materials, and organizational procedures for teaching instrumental music at the middle school and secondary levels. Two credits. (Even Fall)

MUS 454. PERIOD STUDY IN MUSIC HISTORY.

Prerequisites: MUS 245, 255.

This course is an analysis of the history and literature of a selected era or body of repertoire. May be repeated once for credit. Two credits. (Spring)

MUS 470. FIELD WORK IN SACRED MUSIC.

Prerequisite: At least two semesters of the sacred music sequence.

An experiential component of the sacred music program. The sacred music student will participate in a church music program for a minimum of three hours per week for

a full semester. A student will be placed under staff supervision in a local church setting. Students already employed as parish musicians may fulfill field work requirements at their place of employment. Observation will be made by the Music Department faculty. One credit. (Fall, Spring)

MUS 471. SACRED MUSIC PROJECT.

Prerequisite: At least three semesters of the sacred music sequence.

A summation project for the sacred music student. The student will plan, prepare, and lead a public worship service on or off campus. Involvement may include the performance or direction of choral and/or instrumental music and the necessary liturgical propers. One credit. (Fall, Spring)

MUS 472. CRITICAL ISSUES IN CHURCH MUSIC.

Prerequisite: Music 370 or permission of the instructor.

An overview of practical and difficult issues facing the church musician today, including a discussion of contemporary and traditional services, prerecorded and live worship music, appropriate instruments for accompanying worship, the call and ministry of a church musician, church staff relationships, the politics of music-making, guidelines for part-time and full-time employment, and networking. Two credits. (Even Spring)

MUS 497. SENIOR RECITAL.

Senior level half or full recital. One credit. (Fall, Spring)

MUS 499. SENIOR HONORS THESIS OR PROJECT.

Intensive study and research culminating in an honors thesis or project. In the applied music area, this may be related to the senior recital; in the area of music education, this may be either a thesis or project appropriate to the field. The selection of the topic or project is subject to approval by the music faculty. Three credits. (Fall, Spring)

NURSING

The nursing curriculum is in transition. Courses identified with an asterisk (*) represent the outgoing curriculum. Students should consult their academic advisor regarding course selection.

NUR 202. ASSESSMENT OF HEALTH STATUS.

Gateway.

Prerequisite: Admission to Nursing; BIO 281.

Concurrent or prerequisite: BIO 282.

Students are introduced to the process of assessing normal adult health status. This course focuses on the development of physical assessment skills and interviewing skills in assessing and recognizing normal health status of the individual. Theoretical content includes health history, assessment tools, and normal findings. Students are expected to utilize knowledge from previous courses. Laboratory experiences with well individuals provide opportunity to apply theoretical knowledge and demonstrate techniques of physical assessment. Each student is expected to apply principles of therapeutic communication and demonstrate responsibility and accountability in obtaining client data and recording findings. Students are expected to demonstrate independent learning abilities as they develop assessment techniques. Three credits. Class/lab. (E-Summer)

NUR 220. HEALTH ISSUES FOR YOUNG CHILDREN.

Prerequisites: PSY 100, PSY 320/EDU 220.

A study of health issues which impact children. Emphases include nutrition, safety, abuse/neglect, health assessment, management of common illnesses, pre-maturity, disabilities, and chronic health problems. Two credits. Class. (Odd Fall)

NUR 231. INTRODUCTION TO PROFESSIONAL NURSING.

Prerequisite: BIO 281. Co-requisite: BIO 282.

Students are introduced to the conceptual basis for the provision of professional nursing care. Concepts explored include: health care delivery systems, beliefs and practices about health and illness, legal issues related to the delivery of care, communication strategies, planning care, and teaching-learning strategies. In addition a focus of the course is concepts relating to improving self-awareness. Three credits. (Spring sophomore year)

NUR 235. HEALTH ASSESSMENT.

Prerequisite: BIO 281. Co-requisite: BIO 282.

Students are introduced to the process of assessing normal healthy adults across the lifespan. Theoretical content includes health history, assessment tools, and normal findings. Students are expected to utilize knowledge from previous science courses. Laboratory experiences provide opportunities to apply theoretical knowledge and principles of therapeutic communication as well as demonstrate responsibility and accountability in obtaining the health history and documenting the findings. Three credits. (Spring sophomore year)

NUR 300. INTRODUCTION TO PROFESSIONAL NURSING.

Gateway.

Prerequisite: Progression into the Gateway Program (RN-BSN status).

This introductory bridge course for RN-BSN students primarily focuses on areas not traditionally emphasized in ADN and Diploma curricula. It emphasizes the development of self within the professional dimension as well as nursing theories, processes for caring, and professional role socialization. Three credits. Class. (E-Fall)

NUR 303. CARE OF CLIENTS FROM INFANCY THROUGH ADOLESCENCE.*

Prelicensure.

Prerequisites: Completion of Level I nursing courses (NUR 201, 202, 250, 251); PSY 320/EDU 220; BIO 220, 281, 282; CHE 101; plus progression in Nursing Level II per nursing policy.

The course emphasizes the philosophy of the specialty as well as the nurse's role in health promotion and illness care of children as part of the family unit. Students use the nursing process for care of children from infancy through adolescence, considering children in a developmental context. Students are expected to demonstrate accountability for nursing judgments, quality of client care, and professional behavior in a variety of settings. Four credits. Class/clinical. (D-Spring)

NUR 304. CARE OF CLIENTS DURING THE REPRODUCTIVE YEARS.*

Prelicensure.

Prerequisite: Completion of Level I nursing courses (NUR 201, 202, 250, 251); BIO 220, 281, 282, CHE 101, plus progression in Nursing Level II per nursing policy.

Concurrent or prerequisite: Any sociology course; PSY 320 or EDU 220.

This course emphasizes the philosophy of nursing care for childbearing families and health care of women. The student uses the nursing process for care of clients

experiencing normal and complicated prenatal, intrapartum, and postpartum periods. Also included is care of the newborn as well as health alterations of the female client during reproductive years. Students are expected to demonstrate accountability for nursing judgments, quality of client care, and professional behavior in a variety of settings. Five credits. Class/clinical. (D-Fall)

NUR 305. RESEARCH IN NURSING.*

Gateway/Prelicensure.

Prerequisites: Completion of Level I nursing courses (NUR 201, 202, 250, 251) or equivalent for RN-BSN students; BIO 220, 281, 282, CHE 101, plus progression in Nursing Level II per nursing policy. Concurrent or prerequisites: MAT 115 or 215.

This course examines the research process as it relates to the practice of nursing. It provides a foundation for critiquing research studies as a basis for utilization of findings in nursing practice. Three credits. Class. (Fall, Spring)

NUR 315. PHARMACOLOGY IN NURSING.

Prerequisites: BIO 281, 282, CHE 101 or higher, NUR 231, 235. Admission to the Nursing Program.

Introduction to pharmacologic principles and application of these principles to major classes of drugs, common drugs, and their uses in the clinical setting. Two credits. (Fall junior year)

NUR 318. CONCEPTS OF HEALTH AND DISEASE MANAGEMENT.

Prerequisites: BIO 220, 281, 282, CHE 101 or higher, NUR 231, 235. Admission to the Nursing Program. Co-requisites: NUR 315, 324.

Concepts related to common sensory and mobility programs are discussed. Additional concepts of chronic pain management, sexuality across the lifespan, acid/base metabolism, regulation and homeostasis in cellular regulation and oxygenation are discussed. Three credits. (Fall junior year)

NUR 320. CARE OF ADULTS WITH PHYSIOLOGICAL PROBLEMS I.*

Prelicensure.

Prerequisites: Completion of Level I nursing courses (NUR 201, 202, 250, 251);

BIO 220, 281, 282, CHE 101, plus progression in Nursing Level II per nursing policy.

Building on previous knowledge, this course begins to prepare the student to promote, maintain, and restore the physiological health of adults. Through use of the nursing process, concepts of perioperative care, shock, electrolytes, acid-base, immune, cancer, and neurologic problems are emphasized in the context of a human caring approach. Students are expected to demonstrate accountability for nursing judgments, quality of client care, and professional behavior in a variety of settings. Five credits. Class/clinical. (D-Fall)

NUR 321. CARE OF ADULTS WITH PHYSIOLOGICAL PROBLEMS II.*

Prelicensure.

Prerequisite: Completion of Level I nursing courses (NUR 201, 202, 250, 251); BIO 220, 281, 282, CHE 101, NUR 320, plus progression in Nursing Level II per nursing policy.

Building on previous knowledge and the human caring approach, this course continues to prepare the student to promote, maintain, and restore physiological health of adults in a variety of settings. Through use of the nursing process, additional concepts of rehabilitation and post-hospital care; and endocrine, hematological, urinary, gastrointestinal, hepatic and biliary problems are addressed.

Students are expected to demonstrate accountability for nursing judgments, quality of client care, and professional behavior in a variety of settings. Five credits. Class/clinical. (D-Spring)

NUR 323. MANAGEMENT OF HEALTH AND ILLNESS IN THE EMERGING FAMILY.

Prerequisites: BIO 220, 281, 282, EDU 220 or PSY 320, NUR 231, 235, and any SOC course. Admission to the Nursing Program. Co-requisites: NUR 315, 324.

Theoretical application of nursing care to clients in the lifespan stage of childbearing is emphasized. Application of the nursing process to childbearing families is performed in acute care and outpatient clinical settings. Health promotion and health care delivery issues are also explored. Two credits. (Fall junior year)

NUR 324. FOUNDATIONAL CLINICAL PRACTICUM.

Prerequisites: BIO 220, 281, 282, CHE 101 or higher, EDU 220 or PSY 320, and any SOC course. Admission to the Nursing Program. Corequisites: NUR 315, 318, 323.

An introductory applications course in which students apply knowledge of health and disease management. Students care for clients dealing with surgical issues, chronic pain, alterations in acid/base metabolism, cellular regulation and oxygenation. Students care for adults, pregnant women, and newborns in acute and community settings emphasizing health promotion for emerging families. Clinical times may include days, evening, nights, and/or weekends. Travel to various communities may be required. Five credits. (Fall junior year)

NUR 345. MANAGEMENT OF BIOPHYSICAL ILLNESS I.

Prerequisites: HES 288, NUR 315, 318, and 324. Admission to the Nursing Program. Co-requisite: NUR 367.

Building on previous knowledge, this course begins to prepare the student to prevent, promote, and restore the biophysical health of adults. A more complex study of the concepts of protection and safety, fluid and electrolytes, concept regulation and homeostasis of oxygenation and perfusion is conducted. Three credits. (Spring junior year)

NUR 356. MANAGEMENT OF HEALTH AND ILLNESS IN THE AGING FAMILY.

Prerequisites: NUR 315, 318, 324, PSY 100, and any SOC course. Admission to the Nursing Program. Corequisite: NUR 367.

The course introduces aging as a developmental process with an emphasis on health promotion and maintenance in the older client. Management regarding more common health problems is discussed along with issues affecting the older family. Three credits. (Spring junior year)

NUR 359. MANAGEMENT OF HEALTH AND ILLNESS IN THE DEVELOPING FAMILY.

Prerequisites: NUR 315, 318, 324, EDU 220 or PSY 320, and any SOC course. Admission to the Nursing Program. Corerequisite: NUR 367.

Theoretical concepts related to nursing care of children and their families is emphasized. The course includes exploration of psychosocial and biological growth and development across the lifespan as it applied to nursing care and management of illnesses in children. Two credits. (Spring junior year)

NUR 367. INTERMEDIATE CLINICAL PRACTICUM I.

Prerequisites: NUR 315, 318. Corequisites: NUR 345, 356, 359.

This course is a clinical practicum that focuses on the nursing knowledge and skills relevant to the care of adults and children with biophysical illnesses in various healthcare settings. The course also focuses on health promotion in families across the lifespan. Clinical times may include days, evenings, nights, and/or weekends. Travel to various communities will be required. Four credits. (Spring junior year)

NUR 381, 382, 383, 384, 385, 386. SPECIAL TOPICS.

Gateway/Prelicensure.

Prerequisite: Permission of the instructor.

In-depth study of selected topic in nursing. May be class and/or clinical. One credit each to a maximum of six credits. (Subject to Division Head's approval). (D-Fall, D-Spring)

NUR 407. MANAGING THE CARE OF CLIENTS.*

Gateway/Prelicensure.

Prerequisite: Completion of the following Level II nursing courses: NUR 303, 304, 305, 320, 321, 430, 445, 446 (or equivalent for RN-BSN students).

This course expands the theoretical base for the multidimensional professional leadership role. The focus is on integration of nursing concepts, management principles, and collaboration with health care professionals directed toward improvement of the health care system and management of client care. It emphasizes nursing theory, modalities of care delivery, decision making and critical thinking, and the impact of ethical, legal, and economic issues in the delivery of health care. Three credits. Class. (D, E-Spring)

NUR 408. APPLIED NURSING CARE.*

Prelicensure.

Prerequisite: Completion of the following Level II nursing courses: NUR 303, 304, 305, 320, 321, 430, 445, 446.

Concurrent or prerequisite: NUR 407, 447.

This course provides a culminating experience in which the student synthesizes nursing knowledge with management and leadership roles in a selected setting. The student uses knowledge from nursing and liberal arts as a basis for collaboration, participation, and promotion of change in the health care system while adhering to ethical and legal standards. Students are expected to demonstrate accountability for nursing judgments, quality of client care, and professional behavior. Four credits. Clinical. (D-Spring)

NUR 410. CARE OF FAMILIES AND COMMUNITIES.

Gateway.

Prerequisites: Completion of Level I & II Nursing courses: NUR 202, 300, 305 & EDU 220 or PSY 320.

Prerequisite or corequisite: SCI 300.

This course provides the RN to BSN student opportunity to use the nursing process with families and aggregates within the community context. Emphasizes social, cultural, economic, environmental, legal, and political influences on health and health care, as well as with epidemiological principles and selected community problems. Students are expected to demonstrate accountability for nursing judgments, quality of client care, and professional behavior in a variety of settings. Four credits. Class/clinical. (E-Spring)

NUR 411. APPLIED HEALTH CARE.

Gateway.

Prerequisites: Completion of Level I & II Nursing courses: NUR 202, 300, 305 & EDU 220 or PSY 320.

This course provides a culminating experience in which the RN to BSN student synthesizes nursing knowledge with management and leadership roles in a selected setting. The student uses knowledge from nursing and liberal arts as a basis for collaboration, participation, and promotion of change in the health care system while adhering to ethical and legal standards. Students are expected to demonstrate accountability for nursing judgments, quality of client care, and professional behavior. Three credits. Clinical. (E-Spring, Summer)

NUR 425. MANAGEMENT OF BIOPHYSICAL ILLNESS II.

Prerequisites: Successful completion of all 300-level NUR courses. Corequisite: NUR 467.

This course places a special emphasis on complex health problems of adults. Concepts included are multi-system failure, trauma and complex problems related to oxygenation, perfusion and neuron-regulation. Multiple delivery care settings are discussed. Three credits. (Fall senior year)

NUR 430. CARE OF CLIENTS WITH PSYCHIATRIC AND MENTAL HEALTH PROBLEMS.*

Prelicensure.

Prerequisites: Completion of Level I: NUR 201, 202, 250, 251; BIO 220, 281, 282; CHE 101, plus progression in Nursing Level II per nursing policy.

Concurrent or prerequisites: EDU 220 or PSY 320.

The course emphasizes the philosophy of the specialty as well as the nurse's role in health promotion of clients with psychiatric and mental health problems. Students use the nursing process for care of clients with problems related to mood, anxiety, stress, addiction, personality, aggression, and thought process, as well as cognitive and sexual disorders. Special consideration is given to therapeutic communication skills. Students are expected to demonstrate accountability for nursing judgments, quality of client care, and professional behavior in a variety of settings. Four credits. Class/clinical. (D-Fall).

NUR 435. ANALYTICAL METHODS FOR EVIDENCE-BASED PRACTICE.

Prerequisites: ENG 131, 231, MAT 115 or 215, NUR 231, 235, 318, 324.

Introduction to nursing research and informatics as foundational to the development of nursing as an evidence-based practice. Emphasis is on the research process, designs, and research utilization. Ethics in research is also discussed. Three credits. (Fall senior year)

NUR 436. MANAGEMENT OF PSYCHOSOCIAL ILLNESS.

Prerequisites: Successful completion of all 300-level NUR courses, PSY 100, EDU 220 or PSY 320. Co-requisite: NUR 467.

Introduction to concepts necessary for the delivery of psychosocial nursing care to individuals with mental health problems and their families. Emphasis is placed on development of self-awareness, effective therapeutic communication skills and relationships. Three credits. (Fall senior year)

NUR 445. CARE OF ADULTS WITH PHYSIOLOGICAL PROBLEMS III.*

Prerequisites: Completion of Level I: Nursing courses NUR 201, 202, 250, 251; BIO 220, 281, 282; CHE 101, NUR 320, plus progression in Nursing Level II per nursing policy.

Prerequisites: Completion of Level I: Nursing courses NUR 201, 202, 250, 251; BIO 220, 281, 282; CHE 101, NUR 320, plus progression in Nursing Level II per nursing policy.

Concurrent or prerequisites: EDU 220 or PSY 320.

The course is a synthesis of the human caring approach and uses the nursing process to promote, maintain, and restore the health of any adult having physiological problems. A special emphasis is placed on care of adults with complex problems. Concepts include cardiac, respiratory, integumentary, musculoskeletal, and multisystem failure. Students are expected to demonstrate accountability for nursing judgments, quality of client care, and professional behavior in a variety of settings. Five credits. Class/clinical. (D-Fall)

NUR 446. CARE OF FAMILIES AND HOME HEALTH INDIVIDUALS.*

Prerequisites: Completion of Level I Nursing courses: NUR 201, 202, 250, 251, BIO 220, 281, 282; CHE 101, plus progression in Nursing Level II per nursing policy and completion of NUR 303, 304, 320.

Prerequisites: Completion of Level I Nursing courses: NUR 201, 202, 250, 251, BIO 220, 281, 282; CHE 101, plus progression in Nursing Level II per nursing policy and completion of NUR 303, 304, 320.

Concurrent or prerequisites: EDU 220 or PSY 320.

The course emphasizes the use of the nursing process for families and home health individuals as members of the community. It emphasizes the provider, designer, and coordinator nursing care roles while exploring transitional care in the home environment, transition to community settings, home health standards, as well as other legal and safety issues. Values and cultural patterns of families also are explored. Students are expected to demonstrate accountability for nursing judgments, quality of client care, and professional behavior in a variety of settings. Two credits. Class/clinical. (D-Fall)

NUR 447. COMMUNITY HEALTH NURSING AND THE AGGREGATE.*

Prerequisites: Completion of Level II nursing courses: NUR 303, 304, 305, 320, 321, 430, 445, & 446.

Prerequisites: Completion of Level II nursing courses: NUR 303, 304, 305, 320, 321, 430, 445, & 446.

Prerequisite or concurrent: SCI 300.

The course emphasizes the use of the nursing process for promoting health of the community and for its identified aggregates. Epidemiological findings are used as a basis for improving health and health care of the community. The roles of case finder, designer, collaborator, and advocate are emphasized, as are the skills used in prevention of illness or promotion and maintenance of health for clients of all ages. Students are expected to demonstrate accountability for nursing judgments, quality of client care, and professional behavior in a variety of settings. Three credits. Class/clinical. (D-Spring)

NUR 455. HEALTH PROMOTION WITH POPULATIONS AND FAMILIES.

Prerequisites: Successful completion of all 300-level NUR courses and NUR 425, 435, 436, 467. *Co-requisite:* NUR 487.

This course focuses on primary, secondary, and tertiary prevention with populations and families. Current community issues such as management of communicable disease, health disparities, and disaster planning are discussed. Political advocacy and ethical implications for vulnerable populations are integrated. Three credits. (Spring senior year)

NUR 456. CONCEPTS OF LEADERSHIP IN NURSING.

Prerequisites: Successful completion of all 300-level NUR courses and NUR 425, 435, 436, 467. *Co-requisite:* NUR 487.

This course addresses professional practice strategies including conflict management, decision making, interdisciplinary practice, and working with teams. Discussions will center around concepts related to standards of risk management, organization of delivery of care, health care regulations, and quality care management. Three credits. (Spring senior year)

NUR 467. INTERMEDIATE CLINICAL PRACTICUM II.

Prerequisites: Successful completion of all 300-level NUR courses. *Co-requisites:* NUR 425, 436.

This course includes the clinical practice nursing care of clients in various high acuity or complex health care settings. Clinical may include inpatient care units such as ICU, ER, and Stepdown units. Students are exposed to the complexities of providing acute, chronic, and home care for the mentally ill. This course emphasizes use of higher level professional judgment and critical thinking for the patient with high acuity or in complex situations. Clinical times may be days, evenings, nights, and/or weekends. Four credits. (Fall senior year)

NUR 471, 472 & 473. INDEPENDENT STUDY.

Gateway/Prelicensure.

Prerequisite: Acceptance into the nursing major.

Individual learning contract developed and completed under faculty direction. One to three credits (Subject to Division Head's approval). (D-Fall, D-Spring)

NUR 487. ADVANCED CLINICAL PRACTICUM.

Prerequisites: Successful completion of all 300-level NUR courses and NUR 425, 435, 436, 467. *Co-requisites:* NUR 455 and 456.

This course is the clinical application of concepts from leadership in nursing. Included are an intense clinical experience in various health care settings to promote transition into practice and development of leadership skills. Also included is an experience planning and implementing health promotion projects with various populations and families within the community. Clinical times may include days, evenings, nights, and/or weekends. Extended travel may be needed. Six credits. (Spring senior year)

NUR 498. SENIOR HONORS RESEARCH.

Gateway/Prelicensure.

Prerequisite: Senior status, eligibility for honors, NUR 305.

Seminar course that guides the student in development of a nursing research study. The student delineates a research problem, conducts a review of literature, and develops a research proposal. The evolution of work is guided by faculty and shared with fellow students in supportive seminar, enabling the student to clarify problems and progress in development of the research study. Three credits. Class/seminar/independent work. (D-Fall)

NUR 499. SENIOR HONORS THESIS.

Gateway/Prelicensure.

Prerequisites: Senior status, eligibility for honors, NUR 498.

This course of guided study enables the student to implement the research proposal developed in NUR 498. The student completes data collection, data analysis, evaluation and written phase of the proposed research plan. The study is communicated via oral presentation to health care peers and professionals. Three credits. Class/seminar/independent work. (D-Spring)

OCCUPATIONAL THERAPY

OCC 300. NATURE OF HUMAN OCCUPATION.

Prerequisite: PSY 100, PSY/SOC 250; Priority given to HOS majors & minors.

Introduces the philosophy and core assumptions of the paradigm of human occupation. Students will critically analyze the bio-psycho-social and cultural aspects of everyday occupations; the influence of injury illness and/or disability on engagement in occupational activities; and the use of meaningful, purposeful occupational activities as a framework for therapeutic intervention. Course includes experiences emphasizing occupational task analysis and adaptation across the lifespan. Four credits. (3 lecture, 1 lab) (Fall)

OCC 310. MEDICAL TERMINOLOGY.

Prerequisite: BIO 281, BIO 282; HOS or other health sciences major.

Course familiarizes students with anatomical, physiological, and pathological terminology and definitions commonly encountered in healthcare and rehabilitation. Class, self-paced learning, and some online work via Blackboard will be required. One credit. (Fall)

OCC 313. MUSCULO-SKELETAL ANATOMY AND MOVEMENT ANALYSIS.

Prerequisite: BIO 281, BIO 282; Priority given to HOS majors & minors.

Anatomy and physiology of the human skeletal, connective tissue, and muscular systems, including origin, insertion, action, and peripheral nerve innervation of the individual muscles involved in joint stability and mobility for various functions. Course includes a cadaver dissection lab, functional movement analysis lab, and self-paced multimedia learning activities to enhance students' comprehension. Four credits. (2 lecture, 1 lab, 1 lab) (Fall)

OCC 314. APPLIED NEUROSCIENCE FOR REHABILITATION.

Prerequisite: BIO 281, BIO 282; Priority given to HOS majors & minors.

Anatomy and physiology of central and peripheral nervous systems. Topics include: structure and function of nervous, synaptic networks, and supporting tissues; genetic and environmental influences on early neurodevelopment; sensory systems; control systems for posture and movement; basic neuropsychological processes underlying control of praxis, language, perception, cognition, and emotional regulation; and neural plasticity following recovery from injury. Four credits. (3 lecture, 1 lab) (Spring)

OCC 316. MEDICAL CONDITIONS AND DISABILITY.

Prerequisite: OCC 310, OCC 313, OCC 314; admitted as HOS major or minor.

Explores the continuum of wellness-to-disease and influence on occupational performance of major illnesses and types of injury commonly seen in rehabilitation services. Includes an overview of drug classifications and diagnostic tests as they relate to various conditions. Three credits. (Fall)

OCC 340. MEDICAL AND DEVELOPMENTAL CONDITIONS IN CHILDREN AND ADOLESCENTS.

Prerequisite: PSY 320, OCC 310; Priority given to HOS majors & minors.

Survey of the major medical and developmental conditions affecting newborns through

teenage children, with major emphasis on diagnoses most commonly referred for rehabilitation or habilitation. Includes: conditions associated with prematurity; major genetic syndromes; juvenile rheumatoid arthritis; cerebral palsy; myelomeningocele; autism and pervasive disorders of development; learning disabilities; ADHD; auditory-language disorder; and sensory-perceptual dysfunction. Two credits. (Spring)

OCC 360. ORGANIZATION AND DELIVERY OF HEALTHCARE IN THE UNITED STATES.

Prerequisite: POL 120 or ECO 121; Priority given to HOS majors & minors.

Introduces students to the historical, legal, political, economic, cultural, and organizational contexts of health care and rehabilitative services in the U.S.. Examines the legislation that has shaped health care and disability policy, such as the Americans with Disabilities Act, the Individuals with Disabilities Education Act, the regulations of the Occupational Safety and Health Administration; and public/private payment systems that support access to quality healthcare and rehabilitative services. 2 credits. (Spring)

OCC 363. PRINCIPLE-CENTERED PROFESSIONAL DEVELOPMENT.

Prerequisite: Priority given to HOS majors & minors.

Critical examination of issues, challenges, and opportunities in development of oneself as a principle-centered practitioner. Includes: development of a professional mission statement; professional conduct, ethics, and communication; documentation of services; OT/OTA collaboration; patient advocacy; opportunities for professional and community organizational involvement; engagement in continuing education & lifelong learning; and strategies for organization/provision of clinical education experiences to peers within one's clinical setting. Also covered are mechanisms and structure of national certification and state licensure. Three credits. (Fall)

OCC 364. CONCEPTS OF RESEARCH IN REHABILITATION SCIENCES.

Prerequisite: MAT 130; Priority given to HOS majors & minors.

Course designed to provide students with a grasp of the fundamental concepts, models, and ethics of research; and ability to analyze and critique healthcare literature for conduct of evidence-based practice. Strategies and styles of writing a review of the rehabilitation sciences literature will be covered, and course culminates in the writing of a review of the literature on a selected area of human occupation studies. Two credits. (Spring)

OCC 421. MENTAL HEALTH AND OCCUPATION.

Prerequisite: PSY 332; Co-requisite: OCC 300; Admission to HOS major.

Familiarizes students with application of the major psychosocial frames of reference across the spectrum of occupational therapy services, including hospital- and community-based mental health, client/family adjustment to chronic illness and/or disablement, and adult developmental disability. Course emphasizes theoretical and practical competencies in occupational therapy assessment and intervention with these populations and settings. Five credits. (4 lecture/lab, 1 fieldwork requiring 40 hours) (Fall)

OCC 432. PHYSICAL REHABILITATION AND OCCUPATION.

Prerequisite: OCC 300, OCC 313, OCC 314, OCC 316; Admission to HOS major.

Course focuses on occupational therapy practice theory and skills of assessment and treatment with orthopedically or neurologically-disabled adult clients. Major frames of reference include: occupational performance, perception and cognition,

proprioceptive-neuromuscular facilitation, neurodevelopmental treatment, and ADL. Utilization of environmental modification, orthotics and prosthetics, and selected physical agent modalities also covered. Five credits. (4 lecture, 1 lab) (Spring)

OCC 442. PEDIATRIC REHABILITATION AND OCCUPATION.

Prerequisite: OCC 300; Pre/Co-requisite: OCC 340; Admission to HOS major.

Course familiarizes students with scope of occupational therapy practice with infants, children and adolescents in major settings under medical, educational, and community models of intervention. Formal and informal evaluation procedures and interpretation are covered, as well as primary treatment approaches used to address occupational performance areas of: self-care, play, school-related, and transition to community living and vocational participation in adolescents. Treatment frames of reference include model of human occupation (MOHO), biomechanical/environmental adaptation, acquisitional, sensory integration, and neurodevelopmental treatment. Five credits. (4 lecture, 1 lab) (Fall)

OCC 451. OCCUPATIONAL ISSUES OF THE ELDERLY AND FAMILY.

Prerequisite: OCC 300, OCC 421; Health science majors, priority given to HOS majors & minors.

Examines the historical, cultural, biological, economic, and social aspects of aging; transitions from focus on work and children to retirement issues; factors which can interfere with occupational performance and sense of well-being in the elderly; and family concerns in caring for ill and aging family members. Community resources available to support connectedness and aging-in-place for older persons are surveyed, as well as structure of geriatric residential care systems. Students also become more acquainted with the impact of Medicare policy on healthcare of the elderly. Some fieldtrips to community sites may be required. Three credits. (Spring)

OCC 452. ASSISTIVE TECHNOLOGY AND OCCUPATION.

Prerequisite: OCC 43; Admission to HOS major.

Course designed to facilitate students' exploration of the use of both "low tech" and "high tech" solutions that enhance the occupational performance of clients with reduced function. Processes covered include evaluation processes, fabrication methods, interdisciplinary approaches to AT and augmentative communication; strategies to improve clients' access to AT, and payment resources. Several fieldtrips to AT centers or conferences are required. Three credits. (2 lecture, 1 field experience). (Fall)

OCC 463. PRINCIPLES OF LEADERSHIP & MANAGEMENT IN REHABILITATION SERVICES.

Prerequisite: OCC 300, OCC 361, OCC 363; Priority given to HOS majors & minors.

Course focusing on the basic administrative and management aspects of rehabilitative service delivery, including but not limited to strategies of/for: program planning; developing a budget; marketing strategies; supervision of personnel; team-building; grantsmanship; case management; and obtaining and maintaining of third-party reimbursement; implications of OSHA and ADA laws and standards; human resources legal & ethical issues; and requirements of healthcare institutional accreditation. Three credits. (Fall)

OCC 470. PRACTICUM ROTATIONS (LEVEL I FIELDWORK).

Prerequisite: Satisfactory completion of all HOS 300 and 400 level courses; Admission to HOS major.

Three weeks (120 hours) of integrated clinical practicum experiences in two major

practice venues as assigned by the program. Rotations are assigned based on programmatic educational goals and availability of sites. Three credits. (Summer)

OCC 481, 482, & 483. INDEPENDENT STUDY.

Prerequisite: Approval of plan of study and instructor permission; Priority given to OCC majors & minors.

In-depth and/or compensatory study of an approved topic in human occupation studies and application to rehabilitation. Individual learning contract must be developed by the student in collaboration with an appropriate faculty member, and completed under faculty direction. One to three credits.

PHILOSOPHY

PHI 101. LOGIC.

An introduction to the fundamental forms of logical reasoning. Introduction to modern logic. Three credits.

PHI 102. PHILOSOPHY OF HUMAN NATURE.

Critical study of various interpretations of human nature and their relationship to the meaning of human existence, the good person, the good society, and the nature of truth. Three credits.

PHI 116. ETHICS.

A study of major ethical theories in the Western philosophical tradition. Attention is given to the relationship of ethics to personal, religious, social, and political issues. Three credits.

PHI 209. TOPICS IN THE HISTORY OF ANCIENT AND MEDIEVAL PHILOSOPHY

A study of selected major philosophers from early Greece to the late Middle Ages. May be repeated on different topics with consent of the instructor. May be taken without prerequisites in philosophy with consent of the instructor. Three credits.

PHI 212. TOPICS IN MODERN PHILOSOPHY.

A study of selected major philosophers and their writings from the Renaissance through the mid-19th century. Consideration of the rise of modern science, the development of the rationalist and empiricist traditions and various responses to the problems raised by these traditions. May be repeated on different topics with the consent of the instructor. Three credits.

PHI 216. CONTEMPORARY MORAL PROBLEMS.

Prerequisite: PHI 116 or permission of instructor.

Critical examination of selected contemporary moral problems such as abortion, suicide, euthanasia, capital punishment, hunger and welfare, discrimination, affirmative action, war and violence, etc. The course will consider in-depth relevant philosophical literature from one or more contemporary problems that pose significant ethical dilemmas to individuals and society. Three credits.

PHI 217. PHILOSOPHY OF ART.

Prerequisite: One course from ART 341, 342, MUS 411, 412, PHI 102, 116, THR 260, 265 or permission of instructor.

An analysis of the principles involved in the description, interpretation, and evaluation of the arts. The relation of aesthetics to other aspects of philosophy. Three credits.

PHI 251. ENVIRONMENTAL ETHICS.

A study of significant ethical issues attendant to ecology, the environment, and conservation of natural resources. The scope includes philosophical and historical dimensions, as well as national and global perspectives. Attention is given to ethical dimensions of public policy, resource usage, economics, and questions of justice and fairness. Three credits.

PHI 307. TOPICS IN CONTEMPORARY PHILOSOPHY.

A study of selected philosophers and movements, including Anglo-American and Continental European, from approximately 1850-present. Course may be repeated with different topics and permission of the instructor. Three credits.

PHI 318. PHILOSOPHY OF RELIGION.

Selected problems of enduring and contemporary importance in the Western theistic tradition are studied. These may include the existence and nature of God, authority in religion, freedom and determinism, the problem of evil, immortality, religious epistemology, and religious language. Three credits.

PHI 381, 382, 383, 384. SPECIAL TOPICS IN PHILOSOPHY.

Prerequisite: PHI 101 or 102 or permission of the instructor.

One, two, three, or four credits.

PHI 403. DIRECTED READING AND RESEARCH.

Prerequisite: Permission of the instructor.

For philosophy majors desiring work on topics of special individual interest. Three credits.

PHI 404. SEMINAR IN EPISTEMOLOGY AND METAPHYSICS.

Prerequisite: PHI 102 or permission of the instructor.

A critical examination of selected topics and current debates in the theory of knowledge and the theory of the nature of reality. Three credits.

PHI 406. SEMINAR IN ETHICAL THEORY.

Prerequisite: PHI 116 or permission of the instructor.

A critical examination of selected ethical problems, theories and works of writers on ethical theory. Three credits.

PHI 410. ARTIFICIAL INTELLIGENCE.

Prerequisite: CSC 120 or MAT 200 or PHI 101 or permission of the instructor.

Introduces students to the basic concepts and techniques of artificial intelligence and intelligent systems. Topics include knowledge representation, natural language understanding, logical theorem proving search strategies and control, as well as introduction to artificial intelligence programming using LISP and/or Prolog. Four credits. Cross-listed with Computer Science 410.

PHI 499. SENIOR HONORS THESIS.

Intensive study of a particular problem culminating in an honors thesis. Oral examination. Three credits.

PHYSICS

PHY 100. ENGINEERING TECHNOLOGY.

Introduction to engineering for pre-engineering students. A description of the various fields of engineering is provided. In addition, students are introduced to various

mathematical and laboratory techniques useful in engineering, including measurement theory, graphing skills, design, computer aided design. One credit.

PHY 110. CONCEPTS OF PHYSICS.

An introduction to the science of physics, including the study of the history of science and technology: mechanics, heat, electricity, magnetism, optics, atomic structure, and nuclear physics. Energy: types, sources, uses, prospects and the impact of technology on culture and future trends. Two lecture hours and a two laboratory hours per week. Three credits. (Fall, Spring)

PHY 115. ENERGY, TECHNOLOGY, AND MAN.

A one semester introduction to physics, primarily intended for the student (such as a pre-engineering major) who did not have a high school physics course. Topics include mechanics, heat, sound, electricity, magnetism, optics, atomic physics, and nuclear physics. Three lecture hours and two laboratory hours per week. Four credits. (On demand)

PHY 121. GENERAL PHYSICS.

An introduction to mechanics, heat, sound, electricity, magnetism, optics, atomic and nuclear science. Designed for students who are required to take a course in physics, but who do not intend to take calculus. Three lecture hours and three laboratory hours per week. Four credits. (Fall)

PHY 122. GENERAL PHYSICS.

A continuation of PHY 121. Three lecture hours and three laboratory hours per week. Four credits. (Spring)

PHY 211. PHYSICS I: MECHANICS.

Prerequisite or corequisite: MAT 165.

Introductory mechanics, vectors, forces, energy, momentum, many particle systems, rigid body dynamics, and special relativity. Three lecture hours and three laboratory hours per week. Four credits. (Fall)

PHY 212. PHYSICS II: HEAT, LIGHT AND SOUND.

Prerequisite: PHY 211.

Prerequisite or corequisite: MAT 265 or 270.

Heat: mechanical properties of materials, specific heat, definition of temperature scale, first and second law of thermodynamics, work, efficiency of heat engines. Light: Geometric optics, wave optics, diffraction and interference. Sound: speed of sound in different mediums, standing waves on strings and pipes. Three lecture hours and three laboratory hours per week. Four credits. (Spring)

PHY 213. PHYSICS III: ELECTRICITY & MAGNETISM.

Prerequisite: PHY 212.

Prerequisite or corequisite: MAT 166.

Electricity: electrostatics, currents, circuits; magnetism: magnetic effects of current, motors, electric and magnet properties of matter, electromagnetic waves. Three lecture hours and three laboratory hours per week. Four credits. (Fall)

PHY 214. MODERN PHYSICS.

Prerequisite: PHY 213.

An overview and examination of the radically new modern physics of relativity and quantum mechanics as applied to the physics of nuclei, atoms, and the collections of

atoms, from molecules to solids and beyond. Three lecture hours and three laboratory hours per week. Four credits. (Odd Fall)

PHY 301. CLASSICAL MECHANICS.

Prerequisites: PHY 211, MAT 270.

Statics, motions of particles and rigid bodies, vibratory motion, gravitation, Lagrangian and Hamiltonian formulations, perturbation techniques. Three lecture hours and three laboratory hours per week. Four credits. (Odd Spring)

PHY 302. ELECTRICITY AND MAGNETISM.

Prerequisites: PHY 213, MAT 270.

Electric potential and electrostatic fields, solutions of Laplace's and Poisson's equations, properties of dielectrics and capacitors, electrostatic energy, current, magnetic fields and energy, magnetic properties of materials, electromagnetic induction, Maxwell's field equations with applications. Three lecture hours and three laboratory hours per week. Four credits. (Odd Fall)

PHY 303. THERMODYNAMICS AND KINETIC THEORY.

Prerequisites: PHY 213, MAT 270.

Thermal properties, temperature scales and heat; properties of gases, entropy, first and second law; applications. Kinetic theory, Maxwell distribution, statistical mechanics. Three credits. (Even Spring)

PHY 304. QUANTUM MECHANICS.

Development of quantum theory. Applications of Schrodinger theory to simple systems; hydrogen atom, hydrogen, molecular ion. Formal Quantum theory, perturbations, applications. Three credits. (Even Spring)

PHY 315. SCIENTIFIC INSTRUMENTATION.

Prerequisite: PHY 121-122 or PHY 213.

An introduction to the uses of amplifiers, filters, transducers, and properties of digital data acquisition will be explored. The use of electronic sensors and transducers will be examined in the last section of the course with emphasis on the students major interest. Three lecture hours and three laboratory hours per week. Four credits. (On demand)

PHY 320. OPTICS.

Prerequisite: PHY 212 or permission of the instructor.

Properties of light; reflection, refraction, diffraction. Thin lenses, mirrors, and thick lenses, with applications to optical instruments. Interference and diffraction of light with their applications. Modern optics: lasers, fiber optics, lightwave communication. Two lecture hours and five laboratory hours per week. Four credits. (Odd Spring)

PHY 322. MATHEMATICAL METHODS OF PHYSICS.

Prerequisites: MAT 270, PHY 211, 212, 213.

Review of ordinary differential equations, an introduction to partial differential equations, the vector calculus, vector spaces and matrices, complex variables, and the theory of special functions. Three credits. (Odd Spring)

PHY 381, 382, 383, 384. SPECIAL TOPICS.

Prerequisite: Permission of the instructor.

Selected topics chosen from relativity, solid state physics, atomic and nuclear physics, etc. One, two, three, or four credits.

PHY 401. THEORETICAL MECHANICS II.

Prerequisite: PHY 301.

Continuation of PHY 301, advanced use of Lagrangian Functions, Hamiltonian function; Keplers Laws; rigid body dynamics and other advanced concepts. Three credits. (Even Fall)

PHY 402. ELECTRICITY AND MAGNETISM II.

Pre- or corequisites: PHY 302, MAT 322 or PHY 322.

A continuation of PHY 302, this course will introduce special relativity to Maxwell's equations and solutions of wave equations with applications to wave guides and antenna theory as well as the frequency dependence of material media. Three credits. (On demand)

PHY 471, 472, & 473. RESEARCH PHYSICS.

Selected research project for seniors. One to three credits.

PHY 499. HONORS THESIS.

Honors seminar on individual research topic. Three credits.

POLITICAL SCIENCE

POL 120. AMERICAN GOVERNMENT.

A study of the American political system, institutions, processes and problems of national Government, the development of the federal system, the nature of the political process, and political behavior in the U. S. Three credits. (Fall, Spring, Summer)

POL 130. WORLD POLITICS.

The course will examine the nature and development of the state system, acquaint students with the major concepts in international politics including nationalism, sovereignty, power, national interest, law, economic interdependence, diplomacy, and war. It will also introduce students to the important current problems in world politics. Three credits. (Spring)

POL 200. STATISTICS FOR POLITICAL ANALYSIS.

Three credits.

POL 210. INTRODUCTION TO POLITICAL ANALYSIS.

A review of major works in political thought (including Plato, Aristotle, Machiavelli, Hobbes, Locke, Marx, Mill, etc.) and a survey of the major empirical approaches used in the discipline. Three credits. (Fall)

POL 222. STATE AND LOCAL GOVERNMENT.

Prerequisite: POL 120 or permission of the instructor.

Analysis of the structures, functions, and purposes of state and local governments; processes and problems of regional and local politics; comparison of different types of state and local systems and their handling of various political issues. Three credits. (Spring)

POL 240. COMPARATIVE POLITICS.

The nature of the political systems and a comparison of similarities and dissimilarities of political cultures, political socialization, participation and recruitment, and the structures and functions involved in the making, implementing

and interpreting of rules for the system. Compares several specific political systems. Three credits. (Every other Fall)

POL 250. PUBLIC ADMINISTRATION.

Prerequisite: POL 120.

The administrative process in public bureaucracies including its structural and institutional characteristics, behavioral patterns, and policy outputs. Three credits. (Fall, Spring)

POL 310. RESEARCH AND WRITING IN POLITICAL SCIENCE.

Prerequisite: Junior standing.

An integrated review of the discipline, including a major research effort. The course will include a survey of the professional journals, reference works, professional associations and their service, post-graduate and employment opportunities. Three credits. (Spring)

POL 323. CONSTITUTIONAL LAW I: DEVELOPMENT OF THE LEGAL SYSTEM.

Prerequisite: POL 120 or permission of the instructor.

A study of the federal court system and judicial process. The emphasis is on Supreme Court decision making in the areas of judicial review, separation of powers, the balancing of national and state powers, and the commerce clause. Three credits. (Odd Fall)

POL 324. CONSTITUTIONAL LAW II: CIVIL RIGHTS AND CIVIL LIBERTIES.

Prerequisite: POL 120 or permission of the instructor.

A study of Supreme Court decision making as pertains to the Bill of Rights and the Fourteenth Amendment. Areas covered include due process, the administration of justice, freedom of expression and religion, and equal protection of racial, sexual, political, and economic groups. Three credits. (Odd Spring)

POL 332. INTERNATIONAL LAW AND ORGANIZATION.

Prerequisite: POL 130 or permission of the instructor.

Examination of the nature, sources and effectiveness of international law. Review of significant cases in such areas as law of the seas, laws of war, recognition and legal subjects, etc. Also, the course will cover international organizations (purposes, structure and effectiveness) in attempting to bring order to the anarchy of international politics. Three credits.

POL 351. PUBLIC POLICY I: DECISION-MAKING AND ANALYSIS.

Prerequisite: POL 120 or permission of the instructor.

The decision-making structures and processes as they relate to the making and implementation of domestic policy. Includes a survey of decision-making theories and some approaches to policy analysis. Three credits. (Even Spring)

POL 352. PUBLIC POLICY II: FOREIGN POLICY.

Prerequisite: POL 120 or 130 or permission of the instructor.

The decision-making structures and processes as they relate to the making and implementation of foreign policy. This will be primarily a case and issue oriented course. Three credits.

POL 410. SELECTED TOPICS IN POLITICAL ANALYSIS.

Prerequisite: POL 210 or permission of the instructor.

Detailed examination of selected topics in political analysis including normative and

empirical areas of the discipline. Topics will include political violence, utopian societies and futurism, values in applied politics, behavioral models in politics, etc. This course may be taken more than once on different topics. Three credits.

POL 412. RATIONAL CHOICE THEORY.

Prerequisite: POL 210 or permission of the instructor.

This course focuses on the application of deductive reasoning to explain rational behavior in politics. It draws on "public choice" literature including game theory, Condorcet's paradox, and Arrow's theorem. Three credits.

POL 419. ETHICAL ISSUES AND PUBLIC AFFAIRS/LUTHERAN COLLEGE WASHINGTON SEMESTER.

Three courses, POL 419, 429 and 459 comprise the Lutheran College Washington Semester offered in Washington D.C. This seminar examines ethical questions that arise within, and as a consequence of, the operation of the American political process. It focuses on the institutional characteristics of government and how its operation affects such values as community, individual responsibility, equity, and economic growth. A field work component which involves the visitation of selected governmental and quasi-governmental affairs is included in the course. Four credits. (Even Fall)

POL 420. SELECTED TOPICS IN AMERICAN POLITICS.

Prerequisite: POL 120 or permission of the instructor.

In-depth treatment of such institutions and processes as: (a) the presidency, (b) the congress and the legislative process, (c) political parties and pressure groups, (d) intergovernmental relations, etc. This course may be taken more than once on different topics. Three credits. (Fall)

POL 421. NORTH CAROLINA STATE STUDENT LEGISLATURE.

This is an experiential learning course in which the student participates in a mock North Carolina General Assembly. The student researches public policy issues and submits legislation at statewide meetings attended by student delegations from across the state. The purpose of the course is to familiarize the student with the formation and adoption of state laws. The student is required to attend weekly on-campus meetings and 3 or 4 statewide meetings per semester. May be repeated for up to four credits. One credit.

POL 423. POLITICAL PARTIES AND THE ELECTORAL PROCESS.

Prerequisite: POL 120 or permission of the instructor.

A study of the development of the two party system in the United States. The course focuses on party structures and procedures as they impact the expression of political references. Emphasis is given to the process of voting, campaign finance laws, and the Electoral College. Three credits.

POL 427. CONGRESS AND THE POLICYMAKING PROCESS.

Prerequisite: POL 120 or permission of the instructor.

A study of the legislative process in the United States, focusing on Congressional procedures and the unique role of Congress in American politics. Emphasis is placed on the use of case studies to reveal the relevance of Congress to the policy making process. Three credits.

POL 429. SPECIAL TOPICS/LUTHERAN COLLEGE WASHINGTON SEMESTER.

This course is a component of the Lutheran College Washington Semester offered

in Washington D.C. This seminar examines the development of public policy with special emphasis on the formulation and implementation of policy. The seminar focuses in detail on a particular policy topic or problem. For example, special topics may include civil rights, housing, education, health care, and defense policy. A field work component, which involves the visitation of selected governmental or quasi-governmental affairs, is included in the course. Students may receive credit for a special topics course in another discipline upon approval of the Registrar and the School Chair of that discipline. Four credits. (Even Fall)

POL 430. SELECTED TOPICS IN INTERNATIONAL POLITICS.

Prerequisite: POL 130 or permission of the instructor.

Detailed examination of topics such as arms control and conflict management, big power politics and world order, theory and analysis of international politics, etc. This course may be taken more than once on different topics. Three credits. (Fall, Spring)

POL 431. UN: STRUCTURE AND FUNCTION.

Study of the structure and function of the UN, including current problems and crises. We will cover the drafting of resolutions, bloc diplomacy, and rules of procedure. Open to all students. Selection as a delegate to the New York simulation will be competitive. May be repeated once. Two credits. (Spring)

POL 433. POLITICS OF VIOLENCE, TERRORISM, AND WAR.

Prerequisite: POL 130 or permission of the instructor.

This seminar covers extensively the nature and causes of political violence, the nature and uses of terrorism, and how both relate to war. Three credits.

POL 436. MODERN GLOBAL POLITICS.

Prerequisite: POL 130 or permission of the instructor.

An advanced seminar in World Politics, including changes in the nature and role of IGO's, NGO's, and nation-states. The role of economics in globalization and the growing transparency of political boundaries will be covered. Three credits.

POL 440. SELECTED TOPICS IN COMPARATIVE POLITICS.

Prerequisite: POL 240 or permission of the instructor.

In-depth treatment of regional politics, political ideologies, political development, etc. This course may be taken more than once on different topics. Three credits.

POL 442. COMPARATIVE POLITICS OF EAST ASIA.

Prerequisite: POL 240 or permission of the instructor.

This course reviews the concepts and models in comparative political analysis and covers, in depth, the political systems of Japan and the Peoples' Republic of China. Three credits.

POL 444. POLITICS OF THE EUROPEAN UNION.

Prerequisite: POL 240 or permission of the instructor.

The historical development and growth, the policy processes and current policies, and the institutions and actors in the European Union are covered in this course. Also, covered is the role of the EU as a major player in world politics. Three credits.

POL 450. SELECTED TOPICS IN PUBLIC ADMINISTRATION AND POLICY ANALYSIS.

Prerequisite: POL 250 or 351 or 352 or permission of the instructor

Detailed examination of topics such as models in policy analysis, national security

policy, administering social programs, politics of health care, etc. This course may be taken more than once on different topics. Three credits. (Fall)

POL 451. INTERNSHIP IN ECONOMICS, POLITICAL SCIENCE AND PUBLIC ADMINISTRATION.

Prerequisite: Department invitation

Minimum of ten on-site work hours per week for one semester with an agency or office of local, state or national government, a profit or non-profit institution or political interest group. Three credits. (Fall, Spring, Summer)

POL 455. EUTHANASIA: WITH LIBERTY AND JUSTICE.

This is not simply a course on the subject of euthanasia, but rather a course that deals with public policy using euthanasia as the subject matter. Problems associated with freedom and order, collective choice vs. individual choice, and ethical, economic, and political dimensions of euthanasia will be covered. Two field trips are a part of the course. Three credits.

POL 459. LUTHERAN COLLEGE WASHINGTON SEMESTER INTERNSHIP.

This course is a component of the Lutheran College Washington Semester offered in Washington D.C. In conjunction with the Lutheran College Washington Semester, the student is required to work a total of 300 hours in a governmental or quasi-governmental organization. The student may work in a federal agency, congressional office, political interest group, government think tank, etc. The student's grade will be based on an evaluation report submitted by the on-site supervisor and a paper written in conjunction with a faculty member at Lenoir-Rhyne College. Students may receive credit for an internship course in another discipline upon approval of the Registrar and the School Chair of that discipline. Eight credits. (On demand)

POL 498. SENIOR HONORS RESEARCH.

Prerequisite: Must be an honors candidate with senior standing.

Designed to augment the student's formal course work and provide an opportunity to conduct in-depth investigations into areas of special interest. Specific readings will be determined in consultation with the faculty advisor. Three credits.

POL 499. SENIOR HONORS THESIS.

Prerequisites: POL 491 and invitation of the department.

Semester-long research project on the subject of the student's choice, with approval of the faculty advisor. Results of this research must be submitted in duplicate at least two weeks before graduation for honors nominations by the departmental faculty. Three credits.

PSYCHOLOGY

PSY 100. INTRODUCTION TO PSYCHOLOGY.

An introduction to the basic areas of psychology with emphasis on understanding human experience and the application of empirical methods to human behavior. Three credits. (Fall, Spring, Summer)

PSY 101. PSYCHOLOGY ON-LINE.

Prerequisite or co-requisite: PSY 100.

The student will receive an empirical introduction to concepts in Psychology 100 through classroom demonstration, observational study and computer simulation.

NOTE: Psychology majors must take this course in the first 2 semesters after declaring the major and it is a prerequisite to 300 level course work for majors. One credit. (Fall, Spring, Summer)

PSY 201. SOCIAL PSYCHOLOGY.

Prerequisite: PSY 100 or SOC 100.

A study of the theories and methods of the field of social psychology. Topics include: interpersonal communication, social thinking, helping, obedience, conformity, aggression, the self, stereotyping and prejudice. Special emphasis will be given to the applications of social psychology to the area of human relationships. Four credits. Cross-listed with Sociology 201. (Fall, Spring, Summer)

PSY 220. RESEARCH METHODS.

Prerequisite: MAT 215, PSY 101.

This course examines scientific methodology and its application to the social and behavioral sciences. Among the topics discussed are the philosophy of science, problem formation, measurement, ethics of research, and data collection as well as specific problems and issues relating to the principal research designs (i.e., experiment, survey research, observational and non-obtrusive research, and secondary analysis of data, including an introduction to statistical techniques). All students will learn to write a basic research document using APA format. Four credits. (Fall, Spring)

PSY 250. MULTICULTURAL PERSPECTIVES.

Prerequisite: PSY 100 or SOC 100.

A course designed to introduce the learner to cultural diversity and related topics in contemporary America. Racial, ethnic and cultural groupings are identified. The course will encourage an awareness of, and a sensitivity to, the complexity of multicultural variations and interactions. Special attention will be given to the factors that hold diverse groups together. Experiential component of the course will be required of all students. Four credits. Cross-listed with Sociology 250. (Fall, Spring)

PSY 253. PERSONALITY.

Prerequisites: PSY 100 and two other psychology courses.

Introduction to personality theory, assessment, research, and development. Special opportunity will be given for the student to do some assessment of his or her own personality as a basis for understanding the theoretical material. Four credits. (Fall, Spring, Summer)

PSY 320. DEVELOPMENTAL PSYCHOLOGY.

Prerequisite: PSY 100.

The study of human psychological development through the life span with emphasis on biological factors, research methods, behavioral phenomena, and major theories of development. Includes a required field experience component. Four credits. (Fall, Spring)

PSY 328. HEALTH PSYCHOLOGY: MIND AND BODY.

Prerequisite: PSY 100, BIO 110 or permission of the instructor.

Application of psychological principles and techniques to the fields of health and medicine. The critical role of emotional, behavioral, cognitive, and social factors in health will be emphasized. Includes coverage of topics in physiological psychology including the structure and function of bodily systems (nervous, immune, endocrine) and the relationship between mind and body. Four credits. (Fall, Spring)

PSY 332. ABNORMAL PSYCHOLOGY.

Prerequisites: PSY 100 and two other psychology courses.

A study of the types, causes, assessment, treatment, and research of psychopathology. Emphasis on alternative perspectives of mental disorder and its treatment. Covers skills in interviewing, selection of measuring instruments, evaluation of data, and formulation of recommendations. Four credits. (Fall, Spring, Summer)

PSY 340. PSYCHOLOGICAL SCIENCE.

Prerequisites: MAT 215, PSY 220, and Junior Standing.

An exploration of the many ways of doing research in experimental psychology with special focus upon research design and experimental methodology. Topics include: Thinking and problem solving, human factors, social influence, and environmental psychology. Students will develop, run, and write up a research project. Theoretical and ethical concerns will be a constant part of the course. Four credits. (Fall, Spring)

PSY 370. PSYCHOLOGY OF WOMEN.

This course is an introduction to gender differences and the effects of gender differences in social situations. Students should learn to recognize how gender influences their experiences, relationships, and assumptions and that gender differences - real and perceived - have real-world consequences. Topics of study include violence against women, social hierarchies, prejudice, and mass media portrayals of gender. Four credits.

PSY 377. LITERATURE REVIEW.

This course provides students the opportunity to thoroughly investigate a topic of interest within psychological literature. In so doing, the skills associated with finding, critiquing, and reviewing literature will be strengthened. Production of a comprehensive review paper will be the primary focus of the course. Four credits.

PSY 381, 382, 383, 384. SPECIAL TOPICS.

Prerequisite: PSY 100.

The study of a special topic or issue in psychology not covered in depth in other courses. A research paper is required. May be repeated each time the topic changes. One, two, three, or four credits.

PSY 396. SENSATION, PERCEPTION & CONSCIOUSNESS.

Prerequisite: Junior standing.

This course is designed to deepen students' understanding of how the physical world becomes realized through the organs and processes of sensation and perception and how these contribute to consciousness, the very "feeling" of being alive. Special emphasis is given to the physiological and anatomical makeup of the senses and brain, how understanding of the world is an "active construction" of these structures and processes, and the physical and philosophical issues associated with the most baffling problem in the sciences of psychology and neurology: the conscious experience. Four credits.

PSY 415. PSYCHOLOGY OF LEARNING.

Prerequisites: PSY 100 and three other psychology courses.

A detailed examination of the theories and processes of learning, with emphasis on history, research, and theorists. A research laboratory notebook and group presentations will be required. Four credits. (E-Spring)

PSY 434. COUNSELING THEORIES.

Prerequisite: PSY 332 or 330.

An in-depth exploration of basic theories and techniques of psychological counseling. Special attention is given to varieties of counseling, basic issues in the field, and ethical concerns. Four credits. (Fall, Spring)

PSY 437. PHYSIOLOGICAL PSYCHOLOGY.

Prerequisites: PSY 100 and three other psychology courses or permission of the instructor.

An introduction to the relationship between the brain and behavior, primarily in humans. The course covers basic neural anatomy as well as basic and higher—level brain functioning. It includes field trips to local hospitals to visit sites for brain study and for diagnosis of psychophysiological disorders. Four credits.

PSY 444. COGNITIVE PSYCHOLOGY.

Prerequisites: PSY 100, 220 and two other psychology courses.

The focus of this course is on the research and theories in various areas of cognitive psychology, including memory, language, and intelligence. This course develops and emphasizes a strong familiarity with research methods in and writing for psychology. Students are involved in the research currently going on in the field through an individual laboratory study and report. Four credits. (Fall)

PSY 457. INTERNSHIP IN PSYCHOLOGY.

Permission of the instructor.

Field work in some area of specialization in a school, business, social, mental health, or criminal justice setting. One class period per week dealing with professional and ethical concerns will also be required. Internships require daytime availability. Four credits.

PSY 458. INTERNSHIP IN PSYCHOLOGY.

Prerequisites: PSY 330 or 332 and permission of the instructor.

Field work in some area of specialization in a school, business, social, mental health, or criminal justice setting. One class period dealing with professional and ethical concerns will also be required. Internships require daytime availability. Four credits.

PSY 465. HISTORY AND ISSUES IN PSYCHOLOGY.

Prerequisite: Senior standing.

A capstone course required of all psychology majors designed to put the student's knowledge of psychology into historical perspective as philosophic, religious, and methodological issues are engaged. A research paper is required. A special component of the course will be exploring graduate school and career options in psychology. (The Senior Exit Exam for Psychology will be administered in this course.) Four credits.

PSY 481, 482, 483 & 484. INDEPENDENT STUDY.

Prerequisites: PSY 100, three other psychology courses, and permission of the instructor.

A study project related to the student's particular interest in a given area culminating in a research paper. One to Four credits.

PSY 498. SENIOR HONORS RESEARCH.

Prerequisites: PSY 220 and departmental approval.

Independent study in which the student proposes, designs, and carries out a

research project that deals with a problem area in psychology. This course includes conferences with instructor, familiarity with journal literature, and a complete write-up and presentation of the research in publication form at a conference. Four credits.

PSY 499. SENIOR HONORS THESIS.

Prerequisite: PSY 490.

A continuation of PSY 490 in which the student continues work on a research project in the area of psychology. Four credits.

RELIGION

REL 100. THE CHRISTIAN FAITH.

An introduction to the meaning of Christian faith, its Biblical ground, including consideration of issues in Biblical interpretation, and basic theological dimensions. Three credits.

REL 101. THE BIBLICAL HERITAGE OF THE WESTERN WORLD I.

The literature of ancient Israel considered from the literary, historical, and theological perspectives. Three credits.

REL 102. THE BIBLICAL HERITAGE OF THE WESTERN WORLD II.

The literature of the early Church considered from the literary, historical, and theological perspectives. Three credits.

REL 223, 224, 233, 234, 243, & 244. READING THE NEW TESTAMENT IN LATIN.

Prerequisites: LAT 101, 102.

Readings from the Latin New Testament Epistles and Gospels as assigned each week in the Revised Common Lectionary. Intended to develop Latin vocabulary, knowledge of grammar, awareness of ecclesiastical terms and of differences between classical and "vulgate" Latin. One credit.

REL 235. ADVANCED BIBLICAL STUDIES.

Prerequisite: REL 101 or 102 or permission of the instructor.

An examination of current methodological assumptions in Biblical exegesis with student application of methods to text. Three credits.

REL 242. PSYCHOLOGY OF RELIGION.

Prerequisite: REL 100 or permission of instructor.

Investigates the personal and individual search for transcendent meaning and holistic psychic integration, conversion, mystical status, healing, glossolalia, and other forms of religious expression. Three credits.

REL 261. SPIRITUALITY AND THE RELIGIOUS DEVELOPMENT OF CHILDREN.

A study of moral and religious development in society as well as practice in the methods used by school, home, and church in moral development and clarifying religious convictions. Emphasis is placed on family and children. Three credits.

REL 262. SPIRITUALITY AND THE RELIGIOUS DEVELOPMENT OF ADOLESCENTS AND ADULTS.

A study of religious development in adolescence and adulthood. Emphasis is placed on counseling persons of these age groups to clarify religious convictions. Methods and materials in religious development are also utilized. Three credits.

REL 264. THE LIFE AND TEACHINGS OF JESUS.

Exploration of historical background, the question of the historical Jesus, the Sermon on the Mount and Parables of Jesus. Three credits.

REL 266. ARCHAEOLOGY.

Contributions of ancient civilizations as disclosed by their artifacts; archaeological finds and data related to the Biblical world of the Old and New Testaments. Three credits. Cross-listed with History 266.

REL 272. AMERICAN RELIGION.

A study emphasizing the impact of American life and culture on religion; uniquely American features in Christianity and Judaism; religious movements of American origin-Christian Science, Mormonism, Jehovah's Witnesses, minor sects. Three credits.

REL 307. SOCIOLOGY OF RELIGION.

Prerequisite: SOC 100 or permission of instructor.

Theories of the origin of religion; ways in which society, culture, personality, and religion interact; organized religion in America. Three credits.

REL 310. EARLY CHRISTIAN THOUGHT.

A study of major movements and ideas from the close of the apostolic age to the beginning of the Middle Ages. Three credits.

REL 320. MEDIEVAL CHRISTIAN THOUGHT.

Major developments in worship, thought, and life of Western Christendom during the Medieval Period from Gregory the Great to the Council of Constance. Special attention will be given to the great saints and theologians whose love of learning and desire for God inspired monastic orders, heroic missionary efforts, the building of cathedrals, the creation of universities, the rise of science, and ecclesiastical reform. Three credits.

REL 330. THE EUROPEAN REFORMATIONS: MOVEMENTS & IDEAS.

A study of Protestant and Roman Catholic Reformations in Church and doctrine in the 16th Century with special emphasis on those aspects which are of particular relevance for today. Three credits.

REL 340. MODERN CHRISTIAN THOUGHT.

A study of major figures and ideas in Christian thought from the Enlightenment to the present. Three credits.

REL 351. FIELDWORK.

Prerequisite: Permission of the instructor.

A course designed for non-majors which places students in experiential learning opportunities in a variety of community settings. Regular readings and meetings with the college instructor are required. Three credits.

REL 352. FIELDWORK.

Prerequisite: Permission of the instructor.

A continuation of REL 351 designed for non-majors. Places students in experiential learning opportunities in a variety of community settings. Regular readings and meetings with the college instructor are required. Three credits.

REL 361. FIELD WORK.

Prerequisites: REL 261 or 262, and permission of the instructor.

Students are placed in experiential learning opportunities in a variety of community settings in which they may gain practical experience in their chosen area. Students will be under the direction of an appropriate on-site supervisor and will meet regularly with the college instructor. Six credits.

REL 362. FIELD WORK.

Prerequisites: REL 261 or 262, and permission of the instructor.

Continuation of Religion 361. Six credits.

REL 373. NON-WESTERN RELIGIONS AND PHILOSOPHY.

An introduction to the religious and philosophical movements of Asia and Africa.

Three credits.

REL 375. RELIGION IN ENCOUNTER WITH SCIENCE.

Contemporary perspectives on the dialogue between science and religion; an exploration of the possibilities for a relationship which compromises neither Christian faith nor intellectual coherence. Three credits.

REL 381, 382, 383, 384. SPECIAL TOPICS IN RELIGION.

Selected topics in religion. One, two, three, or four credits.

REL 391, 392, 393. INDEPENDENT STUDY.

Directed study or research on topics or projects of special interest. For students with a GPA of 2.5 or above with permission of the instructor. One to three credits.

Courses may be repeated with different content up to a total of six credits.

REL 400. THE CHRISTIAN PERSPECTIVE.

Prerequisites: REL 100; Junior or Senior Status.

A theological exposition of the basic elements of the Christian faith and an interpretation of their significance for selected areas of contemporary concern.

Required of all students during the junior or senior year. Three credits.

REL 450. THE THEOLOGY AND HISTORY OF LUTHERANISM.

Prerequisite: REL 303 or permission of the instructor.

A survey of the history and theology of Lutheranism with particular attention to the Lutheran confessions and the heritage and history of the Lutheran church in its global context. Three credits.

REL 499. SENIOR HONORS THESIS.

Intensive investigation of an area of religious study culminating in an honors thesis.

Oral examination. Three credits.

SCIENCE

SCI 110. PHYSICAL SCIENCE FOR ELEMENTARY TEACHERS.

Upon successful completion the student will be able to demonstrate an understanding of matter and motion and their interactions; the fundamentals of thermodynamics; the interactions between electricity and magnetism; the nature of waves, descriptions of simple atoms, and quantum mechanics; the development of chemistry from early atomic theory through the periodic table to modern theories of chemical bonding; the nature of the atmosphere and weather systems; geological processes; the nature of the universe beyond the solar system. Three lecture hours and three lab hours per week. Four credits. (Fall)

SCI 300. ENVIRONMENTAL SCIENCE.

Prerequisite: Prior laboratory science course.

A natural science offering stressing the close relationship between humans and their environment. Specific emphasis is placed on ecological principles and pressing environmental problems including: population growth, energy consumption, pollution of air and water, and land use. Three credits. Students may not receive credit for SCI 300 and ENV 100. (Fall, Spring)

SOCIAL SCIENCE**SSC 200. SOCIAL SCIENCE METHODS.**

The purpose of this course is to present a comprehensive exposition of the scientific approach to the social sciences. To this end, the course will include the philosophy of science, construction of theories and hypotheses, research design, collection of data and the formulation of generalizations, and an introduction to statistical techniques and applications. This course will, therefore, serve as the basic introduction to the methodology common to all areas of the social sciences. Three credits. (Fall, Summer)

SOCIOLOGY**SOC 100. INTRODUCTION TO SOCIOLOGY.**

Systematic study of patterned social behavior, basic sociological concepts, processes of social interaction, and social relationships of groups, classes, communities, and social institutions. Three credits. (Fall, Spring, Summer)

SOC 200. SOCIAL PROBLEMS.

Prerequisite: SOC 100.

Analysis of the processes of social and personal disorganization and reorganization in relation to poverty, crime, drug addiction, and other social problems. **Experiential component required.** Four credits. (Spring, Summer)

SOC 201. SOCIAL PSYCHOLOGY.

Prerequisite: PSY 100 or SOC 100.

A study of the theories and methods of the field of social psychology. Topics include: interpersonal communication, social thinking, helping, obedience, conformity, aggression, the self, stereotyping and prejudice. Special emphasis will be given to the applications of social psychology to the area of human relationships. Four credits. Cross-listed with Psychology 201. (Fall, Spring)

SOC 207. MARRIAGE AND FAMILY.

Prerequisite: SOC 100.

The family as a social institution; personality development within the family; marriage adjustment; changing family patterns. **Experiential component required.** Four credits. (Fall)

SOC 212. AGING AND SOCIETY.

Prerequisite: SOC 100 or PSY 100.

This course introduces the student to social gerontology, with particular emphasis on the sociology of aging, social policy issues, and the social problems of the elderly. **Experiential component required.** Four credits. (On demand)

SOC 250. MULTICULTURAL PERSPECTIVES.

Prerequisite: PSY 100 or SOC 100.

A course designed to introduce the learner to cultural diversity and related topics in contemporary America. Racial, ethnic and cultural groupings are identified. The course will encourage an awareness of, and a sensitivity to, the complexity of multicultural variations and interactions. Special attention will be given to the factors that hold diverse groups together. Four credits. Cross-listed with Psychology 250. (Fall, Spring)

SOC 302. CRIMINOLOGY.

Prerequisite: SOC 100.

Nature and types of delinquent and criminal behavior; social, cultural, and psychological factors involved in causation; efforts at control and prevention. The various stages of the criminal justice system will also be introduced. **Experiential component required.** Four credits. (Odd Fall)

SOC 303. CITIES AND URBAN LIFE.

Prerequisite: SOC 100.

This course examines the urban scene from two perspectives: the city's origin, growth, and changing spatial, social, political, and economic structure on the one hand; the city as a community within which human behavior occurs on the other hand. The course is a study of urban life growth, conflicts, interactions, and the development of various segments of urban population and subculture. **Experiential component required.** Four credits. (Odd Spring)

SOC 304. INTRODUCTION TO SOCIAL WORK IN HUMAN SERVICE AGENCIES.

Prerequisite: SOC 100.

An overview of social work as a cause, a function and a profession. Topics of study include the philosophy, values, and history of social work, the relationship to social welfare, the process and methods of practice, and evaluation and professionalism. **Experiential component required.** Four credits. Cross-listed with HCS 304. (Fall)

SOC 305. INTRODUCTION TO WOMEN'S STUDIES.

Prerequisite: SOC 100.

This course examines the contributions of feminist scholarship to the liberal arts. Issues such as differences between women's and men's ways of knowing, differences among women of different race, and ethnic traditions are raised. Four credits.

SOC 312. AMERICAN DEMOGRAPHICS.

Prerequisite: SOC 100.

This course will introduce the student to population changes in the United States. Students will learn about changes in the size and make-up of families, increases and decreases in the proportion in the population, and movements from one region to another. The course will pay special attention to the effects of these demographic changes on the demands for consumer goods, housing, jobs, and government services. **Community Research Component Required.** Four credits. (Even Spring)

SOC 317. SOCIAL STRATIFICATION.

Focusing on the United States, this course will explore the general principles and consequences of stratification, the theoretical explanations by which inequality and systems of stratifications emerge and are maintained, as well as the relationship

between social class and other forms of inequality – namely race/ethnicity, gender, sexuality, and age. Four credits.

SOC 318. COMMUNITY STUDIES.

Prerequisites: SOC 100, 220.

The purpose of this course is to involve students in a class research project in the local community. Each semester a topic for research will be picked from suggestions by local community leaders and organizations. Students, working with representatives from the community, will identify the topic, create the research design, collect information, and analyze and interpret that information in light of alternative policy implications. **Community Research Component Required.** Four credits. (Spring)

SOC 320. RESEARCH METHODS IN SOCIOLOGY.

Prerequisites: SOC 100 and MAT 115 or 215.

This course is designed to acquaint students with the principles and practices of sociological research. Different types of research will be explored. The focus will be on research design, data collection and analysis, and the ethics of research. Strengths and weaknesses of the various methods will be explored. Four credits.

SOC 340. SOCIOLOGY OF GENDER AND SEXUALITY.

Prerequisite: SOC 100.

This course will explore the sociological theories that attempt to explain the formation of gender and “appropriate” sexual expression in a cultural and sub-cultural context. Ways in which gender and sexual orientation are used to privilege and disadvantage certain groups will be explored. Additionally, the course will examine the ways that gender and sexuality play out in and among other social institutions such as work, education, and family with an emphasis on media representations of men and women. Four credits.

SOC 345. GLOBAL INEQUALITY.

Prerequisite: SOC 100.

This course will examine the sociological perspective on global inequality and “underdevelopment.” Social, economics, and political problems confronting the developing world will be explored as well as theories that have been offered to explain the problems and the poverty and misery that accompany them. Critical discussions will focus on “development” strategies, the socioeconomic and political forces promoting them, and the impact on people and the environment. Four credits

SOC 381, 382, 383, 384. SPECIAL TOPICS.

Prerequisite: SOC 100.

A study of topics in sociology not covered in other courses. May be repeated with different topics. One, two, three, or four credits. (Fall, Spring)

SOC 390. SOCIAL THEORY.

Prerequisites: SOC 100.

History and development of sociological theory with emphasis on American and European Theorists. Contemporary analyses of models of functionalism, symbolic interactionism, conflict theory, and exchange theory, as well as feminist theory and neo-functionalism. Four credits. (Fall)

SOC 450. SENIOR SEMINAR.

Prerequisites: SOC 100, MAT 115 or 215, and Senior Standing.

Students will complete a senior research thesis, including a review of the literature

on a sociological problem and field research. The course is also designed to develop professional identity and review career and professional opportunities for sociology majors. Four credit hours. (Fall)

SOC 458. INTERNSHIP IN SOCIOLOGY.

Prerequisite: SOC 100 and three additional SOC courses.

Students are assigned to work with a field supervisor within a social work or agency situation. One class period per week dealing with professional and ethical concerns will also be required. Internships require daytime availability. Four credits. (Fall, Spring)

SOC 498. SENIOR HONORS RESEARCH.

Prerequisite: SOC 450.

Directed readings for Sociology honor students within the general area in which the student plans to do honors research. A survey of the secondary literature and an examination of the basic primary sources and bibliographic tools within the general topics will be part of the course. Three credits.

SOC 499. SENIOR HONORS THESIS.

Prerequisite: SOC 498.

Intensive study of a topic chosen by the student and approved by the faculty, culminating in an honors thesis. Oral presentation required. Three credits.

SPANISH

SPA 110. INTRODUCTORY SPANISH I.

An intensive course designed to develop cultural awareness and understanding, in addition to basic proficiency in all four areas: listening, speaking, writing, and reading. A variety of activities and materials are used to promote communicative competence and confidence, and to make the students' experience with language and culture enjoyable. Three credits. (Fall, Spring, Summer)

SPA 111. INTRODUCTORY SPANISH II.

Prerequisite: SPA 110 or permission of the instructor.

A continuation of SPA 110 using the same approach and format as SPA 110. Three credits. (Fall, Spring, Summer)

SPA 210. INTENSIVE INTERMEDIATE SPANISH.

Prerequisite: SPA 111 or permission of the instructor.

Continuation of Spanish 110-111 with strong emphasis on vocabulary building and the spoken language; reading and directed conversation covering additional grammar patterns and aspects of culture. Class meets Mondays, Wednesdays and Fridays with oral drills on Tuesdays and Thursdays. Three credits. (Fall, Spring)

SPA 218. INTERMEDIATE SPANISH COMPOSITION.

Prerequisite: SPA 111 or permission of instructor.

Continued language development through reading, vocabulary expansion, and grammar review, with an emphasis on writing. Students will practice different kinds of writing, including essays, letters, stories, skits, haiku, etc. There will be an introduction to research writing in Spanish. Four credits.

SPA 228. INTERMEDIATE SPANISH CONVERSATION.

Prerequisite: SPA 111 or permission of instructor.

Continued language development through reading, vocabulary expansion, and grammar review, with an emphasis on speaking. Students will practice speaking in different ways, including extemporaneous and prepared speeches, debates, role-playing, and conversation. Four credits.

SPA 335. THE CULTURE AND CIVILIZATION OF SPAIN.

Prerequisite: SPA 218 or 228 or permission of instructor.

A study of the history, geography, and contemporary politics and economics of Spain, including its participation in the European Union. Attention is given to the values and attitudes, customs and artistic heritage of the Spanish people. Four credits.

SPA 336. THE CULTURE AND CIVILIZATION OF LATIN AMERICA.

Prerequisite: SPA 218 or 228 or permission of instructor.

A study of the history, geography, and contemporary politics and economics of Latin America. Attention is given to the values and attitudes, customs and artistic heritage of the Latin American people. Four credits.

SPA 345. ADVANCED GRAMMAR AND PHONETICS.

Prerequisite: SPA 218 or 228.

Analysis of Spanish grammar and syntax beyond the intermediate level and the application of these principles to writing, with emphasis on idiomatic expressions and structures troublesome for the English speaker. Attention given to basic phonetics, transcription, and pronunciation. Four credits.

SPA 376. MASTERWORKS OF SPANISH LITERATURE.

Prerequisite: SPA 218 or 228 or permission of instructor.

A survey of the major works and most important movements of Spanish literature, from El Cid of the medieval period, through the Golden Age, Romanticism, Realism, the Generation of '98, the post-Franco era, and the contemporary period. Four credits.

SPA 377. MASTERWORKS OF LATIN AMERICAN LITERATURE.

Prerequisite: SPA 218 or 228 or permission of instructor.

A survey of the major works and most important movements of Spanish-American literature, from the pre-Hispanic era and the chronicles of exploration, through Romanticism, Modernism, the realist and naturalist period, the Vanguard, el Boom, and the post-Boom. Four credits.

SPA 381, 382, 383, 384. SPECIAL TOPICS IN HISPANIC STUDIES.

Topics and projects chosen according to student needs and interests from such areas as literature, history, the arts, etc. May be repeated with change of topic. One, two, three, or four credits. (On demand)

SPA 411. COMMERCIAL SPANISH.

Prerequisite: SPA 221 or 222.

Study of business-oriented vocabulary and terminology as applicable in daily transactions in business and government. Stress on actual cases involving telephone communication, correspondence, interviews, oral and written reports and agreements. Terminology units tailored to interest of student: export-import documents, telecommunications/engineering, furniture, textiles, etc. Four credits. (Even Fall)

SPA 412. SPANISH FOR BUSINESS COMMUNICATION.

Prerequisite: SPA 221 or 222.

Refinement of techniques, both oral and written, encountered in business enterprises

in areas such as sales, purchases, banking, and transportation. Four credits. (Odd Spring)

SPA 421. TEACHING FOREIGN LANGUAGES IN ELEMENTARY AND MIDDLE SCHOOLS.

Objectives, methods, and materials for teaching modern foreign languages in grades K-9. Emphasis on language acquisition patterns in children, language proficiency, and integration of the second language with other content areas. Three credits. Cross-listed with Education 421. (Odd Spring)

SPA 475. INDEPENDENT STUDY.

Directed study and research on topics or projects of special interest. For majors on request with permission of instructor. May be repeated once with different content. Four credits. (On demand)

SPA 499. SENIOR HONORS THESIS.

Intensive study of a particular topic or project appropriate to the major, culminating in an honors thesis, project, etc. Oral examination. Three credits. (By invitation)

SPECIAL EDUCATION: DEAF AND HARD-OF-HEARING

SED 209. INTRODUCTION TO THE EDUCATION OF YOUNGSTERS WITH HEARING LOSS.

Minimum grade of "C" required for education majors.

Introduction to the field of deaf education and the possible ramifications of hearing loss (psychologically and sociologically) in educational settings. A study of the roles and responsibilities of teachers of children who are deaf/hard-of-hearing concomitant with the various communication and program philosophies. Continuum of services, roles, and functions of key personnel in various service delivery systems, including families. Legislative issues impacting children and hearing loss from identification through transiting from school to work. Reflection on 30 hours of observation in a variety of grades K-12, with all communication options/modalities, with a variety of ability levels, in a variety of settings. Three hours of class a week and two hours of field experience a week. Four credits.

SED 228. FUNDAMENTALS OF SPEECH PRODUCTION.

Minimum grade of "C" required for education majors.

Introduces speech science, principles of formation, and development of elementary English sounds. Anatomy and physiology of the speech mechanism. Principles of the International Phonetic Alphabet. Genesis and development of speech function contrasted in children with and without hearing loss. Three credits.

SED 235. AUDITORY ASSESSMENT AND AURAL REHABILITATION.

Principles, methods, and materials of auditory support for elementary, middle, and secondary students. Topics include the physics of sound, atypical physiology of hearing, amplification systems, auditory bionics, and assistive listening devices. Special emphasis is given to the acoustic properties of speech sounds, strategies for developing perception and generalizing auditory/oral communication skills in the school-age learner. Three credits.

SED 240. PEDIATRIC AUDITORY ASSESSMENT AND HABILITATION.

Introduction to pediatric issues in audiology and auditory learning. The course includes topics related to anatomy, developmental perception, phonemic awareness, the acoustics of early developing sound, and developmentally appropriate strategies for enhancing auditory awareness, discrimination, and identification of speech. Also included are topics related to assessment of audiological functioning including auditory brainstem response, otoacoustic emissions, behavioral observation, visual reinforcement audiometry, and conditioned response audiometry. Three credits.

SED 281. AMERICAN SIGN LANGUAGE I.

Minimum grade of "C" required for education majors.

Introduces the fundamentals of American Sign Language and its use in the Deaf community. Expressive and receptive sign vocabulary are featured at the conversational level. Course focuses on grammatical structures including but not limited to sentence types, classifiers, locatives, and pluralization. Weekly time in schools with students with hearing impairment who sign required. Three credits.

SED 282. AMERICAN SIGN LANGUAGE II.

Prerequisite: SED 281 or permission of the instructor.

Minimum grade of "C" required for education majors.

Focuses on expanding sentence structure, vocabulary, and developing fluency and cultural knowledge. Both expressive and receptive ASL skills at the intermediate conversational level are developed. Students will develop a more advanced knowledge of the linguistic structure of American Sign Language begun in Introductory ASL. Weekly time in school with students with hearing impairment who sign required. Three credits. Taught on the campus of North Carolina School for the Deaf.

SED 394. ADAPTING AND ACCOMMODATING METHODS, MATERIALS AND ENVIRONMENTS IN D/HH LEARNERS.

Minimum grade of "C" required for education majors.

Current research of the content and methods utilized in teaching traditional school subjects (e.g., science, math, social studies) to hearing children with implications for learners with and without hearing loss; curriculum materials and modification; designing and implementing instructional strategies for elementary, middle and secondary hearing and hearing-impaired students in a variety of settings, including traditional ones. Unit planning. Twice weekly observation, assisting, and co-teaching in two different settings at two different levels with children with hearing losses. Three credits.

SED 480. INTERNSHIP-DEAF AND HARD-OF-HEARING EDUCATION.

Prerequisites: EDU 201, 215, 220, 230, methods courses, 430, 431 or 432, 343, and admission to Teacher Education Council.

Corequisite: EDU 402

Minimum grade of "B-" required for education majors.

Student teaching and reflection on that teaching for a full semester at a minimum of two educational levels and in two different settings in a public school and at NCSD. Concentration at level of special interest. Placement in public-school programs for students who are deaf and hard-of-hearing. Twelve credits. Fee-\$125.00. (SPRING ONLY)

SED 492. LANGUAGE ANALYSES AND INTERVENTIONS FOR STUDENTS WITH HEARING LOSS.

Minimum grade of "C" required for education majors.

Information and insight into the language difficulties frequently experienced by students with hearing loss; fundamentals and practice in analyzing both oral and air communication of children with hearing loss; use of evaluation results to develop instructional strategies. An in-depth language analysis and intervention plan of one child with hearing loss is required. Two hours of class and two hours of fieldwork per week. Three credits.

SED 497. READING AND WRITING: LEARNERS WITH HEARING LOSS.

Minimum grade of "C" required for education majors.

Current research on reading and writing development with implications for learners with hearing loss; curriculum materials and modifications; designing and implementing instructional strategies for pre-school, elementary, middle and secondary students in a variety of settings. A class with children with hearing impairment is "adopted," and twice weekly time is spent working on components of a balanced reading program. Three credits.

THEATRE

THR 110. ACTING I.

Examination of the problems, demands, and disciplines of the actor's art. Introduction to acting techniques: movement, voice, warm-up exercises for the actor. Improvisation exercises and introduction to the Stanislavski System. Three credits. (Fall)

THR 200. THEATRE APPRECIATION.

Development of the theatre as an institution of civilization and its relationship through the ages with other arts and the social environment. Emphasis on sampling contemporary tragedy, comedy, satire, musical, and mass media productions. Three credits. (Fall, Spring)

THR 210. ACTING II.

Continued exploration of acting techniques: voice, movement, warm-up exercises for the actor, building upon the topics introduced in THR 110. Further study in improvisation exercises and stage movement. Application of the Stanislavski System in advanced scene study with emphasis on contemporary dramatic literature. Brief exploration of acting techniques for the camera. Three credits. (Fall)

THR 220. STAGE TECHNOLOGY I.

Introduction to technical theatre methods, scenery construction, stage lighting and sound. Practical experience in supervised laboratory and production program. Three credits. (Fall)

THR 230. STAGE DESIGN I.

Basic theory for theatrical design. Introduction to design principles for decor and light, color theory for pigment and light, basic drafting principles and script analysis for design. Emphasis on practical application of skills. Three credits. (Spring)

THR 235. STAGE MAKE-UP.

Basic make-up practices for the actor. Three credits. (On demand)

THR 260. HISTORY OF THEATRE AND DRAMA I.

Exploration of the development of Theatre and dramatic literature from the beginnings of the art form to the end of the Renaissance. Three credits. (Odd Fall)

THR 265. HISTORY OF THEATRE AND DRAMA II.

Exploration of Theatre and dramatic literature trends and conditions from the Restoration to the present. Three credits. (Even Spring)

THR 280. PRODUCTION LOWER DIVISION.

Practicum style course typically for first and second year theatre students. The course evaluates student production involvement in the Theatre program season, from performance responsibilities to technical and design assignments. Course may be repeated for credit. One credit. (Fall)

THR 320. STAGE TECHNOLOGY II.

Advanced exploration of technical theatre methods. Build upon techniques and practices learned in THR 220. Practical experience in supervised laboratory and production program. Three credits. (On demand)

THR 325. STAGE MANAGEMENT.

Introduction to basic principles of theatrical stage and production management. Emphasis on personnel and time management. Includes practical application of learned skills. Three credits. (Spring)

THR 330. STAGE DESIGN II.

Prerequisite: THR 230.

Continuation of design principles learned in Design for the Stage I. Practical application of learned skills for lighting, scenic and costume design; advanced drafting and rendering; procedural approaches for theatrical design. Three credits. (On demand)

THR 381, 382, 383, 384. SPECIAL TOPICS.

Advanced work in theory, design, and/or performance. Can be repeated with different topics. One to four credits. (On demand)

THR 450. DIRECTING I.

Fundamental principles of directing for the theatre, including staging, pacing and analysis. Three credits. (By invitation, Spring Even)

THR 452. DIRECTING II.

Prerequisite: THR 450.

A practicum focusing on advanced composition and actor coaching with emphasis on producing and directing the one-act play. The course will explore the production process from play selection, analysis, preliminary design, casting, scheduling, rehearsing, and performance. Three credits.

THR 480. PRODUCTION UPPER DIVISION.

Practicum style course typically for third and fourth year theatre students. The course evaluates student production involvement in the Theatre program season, from performance responsibilities to technical and design assignments. Course may be repeated for credit. One credit. (Fall)

THR 499. SENIOR HONORS THESIS OR PROJECT.

By invitation only.

Intensive study of a particular theatrical area, culminating in an honors thesis or project. This theatrical area may be in a dramatic literature or historical field, or in a performance or skills field (acting, directing, oral interpretation, or design and technical theatre work). Requires an oral examination for the dramatic literature and historical fields, a public performance or display of technical theatre work or designs for the performance or skills field. Three credits. (By invitation)

WOMEN'S STUDIES

WMS 215. INTRODUCTION TO WOMEN'S STUDIES.

This course introduces students to the interdisciplinary study of women. Students will examine a variety of theories and issues related to women and the gendered experiences that affect their lives. Three credits.

WMS 391, 392, 393, 394. INDEPENDENT STUDY IN WOMEN'S STUDIES.

An in-depth study course, under faculty direction, related to the student's particular interest in the field of Women's Studies. Permission of the instructor and the Women's Study Board is required. One to four credits.

WMS 450. SENIOR SEMINAR IN WOMEN'S STUDIES.

Prerequisite: WMS 215 and junior/senior standing.

Students will complete a senior research project, including a review of the literature on a topic relevant to Women's Studies, and conduct field research. The course is designed to prepare students for personal and professional development. Three credits.

WMS 461, 462, 463, 464. INTERNSHIP IN WOMEN'S STUDIES.

Field work in some area of specialization related to Women's Studies in an appropriate community setting. One class period dealing with professional and ethics concerns will also be required. Internships require daytime availability. Permission of the instructor and the Women's Study Board is required. One to four credits.