COURSE DESCRIPTIONS

COURSE NUMBERS:
100 - 299 indicates lower division
300 - 499 indicates upper division
500 - 599 indicates prerequisite courses for graduate work
600 – 999 indicates graduate division

UNDERGRADUATE COURSES

ACADEMIC FOUNDATIONS (ACAF)

ACAF 098 ACADEMIC COACHING (0 credit hours) [offered every semester] - provides a one-on-one relationship to help the student clarify their goals and establish an academic plan to achieve it. Regular coaching sessions assist the student in developing, practicing, and monitoring strategies for academic success. Course is a pass/fail only.

ACAF 100 ACADEMIC ACHIEVEMENT SEMINAR (1 credit hour) [offered every semester] - provides an opportunity to discover and develop skills and habits that will lead to success in the student's scholastic, personal and professional life. Students evaluate goals and past academic paths and establish strategies to successfully meet academic goals.

ACAF 101 CORE I: SPEECH COMMUNICATION (4 credit hours) [offered every fall] - employs a selected theme, "Self and Society," to develop competencies in oral communication. In addition, the course serves as an orientation to college and the liberal arts and sciences. The course is interdisciplinary, involves common lectures, cultural events and readings. It is required of all freshman students, and serves as a prerequisite for Core II. (IAI Course # C2 900)

ACAF 101 CORE I: ACADEMIC FOUNDATIONS (1 credit hour) [offered every fall] - employs a selected theme, "Self and Society," serves as an orientation to college and the liberal arts and sciences. The Academic Foundations section includes all of the course components as CORE I: SPEECH COMMUNICATION with the exception of the oral communication competencies. The course is interdisciplinary, involves common lectures, cultural events and readings. It is required of all freshman students, and serves as a prerequisite for Core II. The course is for students with credit for speech communication.

ACAF 102 CORE II: COLLEGE WRITING II (3 credit hours) [offered every spring] - continues the interdisciplinary exploration of the liberal arts and sciences and the common topics explored in Core I. The course will provide students with extensive practice in writing persuasive and referential prose with an emphasis on the process of research and writing from sources. (IAI Course # C1 901R)

ACAF 201 CORE III: FOUNDATIONS OF WESTERN THOUGHT (3 credit hours) [offered every fall] - required as a sophomore level core course, is humanities oriented and explores the important contributions of the humanities to western intellectual thought. (IAI Course # H9 900)
ACCOUNTING (ACCT)

ACCT 125 FINANCIAL ACCOUNTING (3 credit hours) [offered every semester] - presents accounting as an information system that produces financial statements, primarily for users external to a business or other enterprise. The forms of business organizations and the common transactions entered into by businesses are addressed. The emphasis is on understanding and applying basic accounting principles and concepts that guide the reporting of the effect of transactions and other economic events on the financial condition and operating results of a business. Analysis and interpretation of financial statements, as well as their limitations for making forward-looking decisions is included. Prerequisite: MATH 099 or high school algebra II. (IAI Course # BUS 903)

ACCT 126 MANAGERIAL ACCOUNTING (3 credit hours) [offered every semester] - introduces students to management accounting as a system of producing information for use in internally managing a business. This course emphasizes the identification, accumulation, and interpretation of information for planning, controlling, and evaluating the performance of the separate components of a business. Included is the identification and measurement of the cost of producing goods or services and how to analyze and control these costs. Decision models commonly used in making specific short-term and long-term business decisions also are included. Prerequisite: ACCT 125. (IAI Course # BUS 904)

ACCT 225 INTERMEDIATE ACCOUNTING I (3 credit hours) [offered every fall] - involves the study of authoritative pronouncements required for proper presentation and preparation of financial statements and an in-depth study of specific balance sheet and income statement accounts. Prerequisite: ACCT 126.

ACCT 226 INTERMEDIATE ACCOUNTING II (3 credit hours) [offered every spring] - offers a continuation of Intermediate Accounting I, covering such topics as earnings per share, leases, pensions, accounting changes, corporate income taxes, and the statement of cash flows and international accounting. Prerequisite: ACCT 225.

ACCT 230 COST ACCOUNTING (3 credit hours) [offered every fall] - presents costing techniques and applications used to aid management decision making, including topics such as job order and process cost systems, cost allocation, standard costs, and budgeting. Prerequisite: ACCT 126.

ACCT 325 TAXES I (3 credit hours) [offered every fall] - provides a study of individual federal income taxation, covering income items, exclusions, deductions, exemptions, and tax credits. Prerequisite: ACCT 226.

ACCT 326 TAXES II (3 credit hours) [offered every other year] - provides a study of federal income taxation of advanced individual topics, corporations, partnerships, estates, and trusts. Prerequisite: ACCT 325.

ACCT 327 ACCOUNTING INFORMATION SYSTEMS (3 credit hours) [offered every other year] - provides an examination of integrated enterprise information systems. Students will apply theoretical concepts and use software (e.g. Microsoft Access, Quickbooks) as a tool for developing business solutions. This course focuses primarily on understanding business processes and the pattern-based thinking that enable understanding of a wide variety of business processes in many different types of firms in various industries. Ethical issues will be emphasized throughout the course. Prerequisite: ACCT 225 or consent of instructor.

ACCT 330 AUDITING (3 credit hours) [offered every spring] - offers a balanced treatment emphasizing both the theoretical concepts of auditing and real world application of those concepts. Prerequisite: ACCT 225.
ACCT 335 INTERNATIONAL ACCOUNTING (3 credit hours) [offered when there is sufficient student demand and faculty members are available] – examines accounting issues unique to multinational enterprises and international business activity. The course will review national differences in accounting systems, the significance of international business, foreign currency issues and international accounting standards.

ACCT 336 ADVANCED ACCOUNTING (3 credit hours) [offered every spring] - offers the study of advanced topics in accounting, including mergers and acquisitions, accounting procedures used by government entities, and selected international topics. Prerequisite: ACCT 226.

ACCT 369 FINANCIAL STATEMENT ANALYSIS (3 credit hours) [offered every other year] - provides the conceptual background and analytical tools necessary to understand and interpret financial statements. The course provides a realistic and organized approach to financial reporting using textbook problems and cases, and projects using actual companies. Prerequisite: FINC 242.

ACCT 494 SELECTED ACCOUNTING TOPICS (1-3 credit hours) [offered when there is sufficient student demand and faculty members are available] - courses not specifically listed in the catalog may be taught under this title. Prerequisites may be required, depending upon the topic.

ACCT 496 INDEPENDENT STUDY (1-3 credit hours) [offered when there is sufficient student demand and faculty members are available] - allows students to select their own topic of investigation and determine their own way of pursuing and reporting work. A faculty advisor serves as a resource person. Students provide goals, materials, and criteria for evaluation. Prerequisite: approval of Dean.

ACCT 498 ACCOUNTING INTERNSHIP (1-15 credit hours) [offered every semester] - provides a supervised, practical experience for an extended period of time for advanced students through the business department. Prerequisite: must meet internship guidelines.

**BIOLOGY (BIOL)**

BIOL 112 INTRODUCTION TO THE PRINCIPLES OF HEREDITY (4 credit hours) [offered every spring] - is a lecture/lab course designed to introduce the non-science major to basic Mendelian and molecular genetics with special emphasis on human characteristics and diseases. Social, ethical and evolutionary issues are discussed. (IAI Course # L1 906)

BIOL 113 ANATOMY AND PHYSIOLOGY (4 credit hours) [offered every other spring] - provides the non-biology major with a basic survey of human anatomy and physiology. Emphasis is placed on the relationship between structure and function, homeostasis and homeostatic regulating mechanisms. This class meets three lecture periods and one two-hour laboratory period each week.

BIOL 114 HUMAN BIOLOGY (4 credit hours) [offered every fall] - is intended for the non-science major, and will consider the biological nature of humans and the role that humans play in the biosphere. Topics for discussion will include the nature of biology in society, body systems and homeostasis, genetics, cancer, and human evolution and ecology. Course includes laboratory experiences. (IAI Course # L1 904L)

BIOL 115 PLANTS AND CIVILIZATION (4 credit hours) [offered every other year] - is a lab and lecture course that introduces the non-science major to the impact of plants on the past, present, and future of human civilization. Topics include the origin of agricultural crops, plants that changed history, the green revolution, medicinal plants, supermarket botany and genetic engineering of plants. Also included is a brief introduction to plant structure,
BIOL 116 INTRODUCTION TO LIFE SCIENCE FOR EDUCATORS (4 credit hours) [offered every spring] - This course has been designed to provide elementary education majors with the background in biology needed to teach elementary life science. The course will use laboratory investigations to enhance understanding of biological concepts and to emphasize the discovery nature of science. An in-service learning experience has been added to this course to allow students to apply what they have learned by developing and teaching science lessons to 4th or 5th grade students at Farragut Elementary School. Three lecture periods and one two hour laboratory section meet each week.

BIOL 124 PRINCIPLES OF BIOLOGY I (3 credit hours) [offered every semester] - provides an introduction to basic biological concepts in the areas of biological chemistry, cell biology, genetics and evolution. Student must be concurrently enrolled in BIOL 125. Prerequisite: High school chemistry. (IAI Course # L1 900, BIO 912, CLS 902)

BIOL 125 PRINCIPLES OF BIOLOGY I LAB (1 credit hour) [offered every semester] - provides laboratory experiences to complement the lecture material presented in BIOL 124 and introduces the student to basic lab techniques and scientific method. Student must be concurrently enrolled in BIOL 124. (IAI Course # L 900L, BIO 912, CLS 901)

BIOL 126 PRINCIPLES OF BIOLOGY II (3 credit hours) [offered every spring] - provides an introduction to basic biological concepts in the areas of biological diversity, zoology, botany, and ecology. Students must be concurrently enrolled in BIOL 127. Prerequisite: Grade of “C” or higher in 124/5 or consent of instructor. (IAI Course # BIO 911, CLS 901)

BIOL 127 PRINCIPLES OF BIOLOGY II LAB (1 credit hour) [offered every spring] - emphasizes the process of biological investigation, with group and individual projects, to study evolution, biodiversity and ecology. Student must be concurrently enrolled in BIOL 126. (IAI Course # BIO 911, CLS 901)

BIOL 194 TOPICS (1-4 credit hours) [offered when there is sufficient student demand and faculty members are available] is a title given to a course which covers broad themes, practices, and subject content not currently offered in the curriculum. This course is directed primarily at non-majors and may be used for general education where approved. Generally does not have prerequisites.

BIOL 211 MICROBIOLOGY (5 credit hours) [offered every semester] - introduces the student to microbial morphology, physiology, ecology, and the identification of microorganisms through a series of investigations. The fundamentals of immunology and medical microbiology are also introduced. Three lecture periods and two two-hour laboratory periods meet per week. Prerequisite: Grade of “C” or higher in BIOL 124/5. (IAI Course # CLS 915, NUR 905)

BIOL 221 HUMAN ANATOMY (4 credit hours) [offered every semester] - provides an introduction to regional gross anatomy for students engaged in pre-professional study as well as those interested in nursing and allied health. Human anatomy will be covered from a functional and clinical perspective. In the laboratory, students use A.D.A.M. software, models, histological sections, radiographs and prosected cadavers. The class will meet for three hours of lecture and one three-hour laboratory per week. Prerequisite: Grade of “C” or higher in BIOL 124/5. (IAI Course # CLS 903, NUR 903)

BIOL 252 HUMAN PHYSIOLOGY (4 credit hours) [offered every semester] - is a detailed study of functions of the human body. Emphasis is placed on homeostasis, fundamental physiological mechanisms and the coordination and integration of major body systems. Case
studies are used to apply physiological principles to clinical applications. The class will meet for three hours of lecture and one three-hour laboratory per week. Prerequisites: Grade of “C” or higher in BIOL 124/5 and CHEM 120 or CHEM 121 or CHEM 224. (IAI Course # CLS 904, NUR 904)

BIOL 310 INVERTEBRATE ZOOLOGY (4 credit hours) [offered every other year] - acquaints the student with the general characteristics of each phylum of the animal kingdom. Detailed structure and function of organ systems are studied in specific representatives of each invertebrate phylum. Laboratory investigations include analysis of local invertebrate communities. Two lecture periods and two two-hour laboratory periods meet per week. Prerequisite: Grade of “C” or higher in BIOL 126/7.

BIOL 311 PATHOPHYSIOLOGY (3 credit hours) [offered every semester] - builds upon the knowledge of normal human structure and function gained in anatomy and physiology courses in Level I. The course begins with a discussion of the concept of health versus disease. The focus is on disease or the physiological alterations in body structure and pathological disruptions in function. These deviations are discussed using Orem’s universal self-care requisites as an organizing framework. The course is designed to allow the student to integrate principles and concepts of Pathophysiology into concurrent and subsequent clinical nursing courses. Prerequisites: Anatomy and Physiology, Chemistry, Microbiology.

BIOL 312 BIOLOGY OF TERRESTRIAL ARTHROPODS (2-4 credit hours) [offered when there is sufficient student demand and faculty members are available] - examines the biology of the arthropods; the most successful group of terrestrial invertebrates. Terrestrial crustacea, myriapoda, arachnida, and insects will be covered. The emphasis will be on the taxonomy, ecology, and evolution of the spiders and insects including their impact on humans. Laboratory will be used to 1) collect, identify, and preserve specimens, and 2) to investigate arthropod behavior and physiology. Prerequisite: Grade of “C” or higher in BIOL 124/5.

BIOL 314 COMPARATIVE VERTEBRATE ANATOMY (3 credit hours) [offered every other year] - provides the student with an understanding of the evolution of the major organ systems of the amphioxus, fishes, amphibians, reptiles, birds, and mammals including man. The comparison of organs is addressed with special emphasis on the evolutionary relationships between each class of chordates. BIOL 315 must be taken concurrently. Prerequisite: Grade of “C” or higher in BIOL 126/7 or consent of instructor.

BIOL 315 COMPARATIVE VERTEBRATE ANATOMY LABORATORY (2 credit hours) [offered every other year] - includes the study of the external anatomy of the amphioxus, comparison of the skeletal systems of the dogfish shark, frog, turtle, bird, and cat, as well as dissection of the dogfish shark, and cat. Prerequisite: Grade of “C” or higher in BIOL 126/7 and concurrent enrollment in BIOL 314.

BIOL 316 EMBRYOLOGY (4 credit hours) [offered every other year] - provides the student with insight into the development of vertebrates, beginning with gametogenesis, fertilization, cleavage, blastulation, gastrulation, and neurulation. Emphasis is placed on the nature of the primary organizer, induction, and organogenesis. Three lecture periods and one two-hour laboratory meet per week. Prerequisite: Grade of “C” or higher in BIOL 126/7 or consent of instructor.

BIOL 321 HUMAN DISSECTION ANATOMY (3) [offered when there is sufficient student demand and faculty members are available] - This is an advanced course in human anatomy. It is primarily a laboratory course involving the regional dissection of the human cadaver. Lectures covering specific regions or anatomical principles are given as appropriate. Class size is limited. Prerequisite: Grade of “C” or higher in BIOL 221A and consent of instructor.
BIOL 322 MOLECULAR BIOLOGY (4 credit hours) [offered every other year] - introduces molecular biology through a class molecular biology investigation. Techniques covered will include DNA purification, sequencing and blotting; PCR amplification; gene cloning and engineering techniques; and mRNA isolation and analysis. This class will be investigation driven with an emphasis on developing workable strategies to solving questions at the molecular level. Prerequisite: Grade of “C” or higher in CHEM 322/3.

BIOL 331 BOTANY (4 credit hours) [offered every other year] - introduces students to the basic structural, reproductive and evolutionary patterns seen in the plant kingdom. The class will meet for three hours of lecture and one three-hour laboratory per week. Prerequisite: Grade of “C” or higher in BIOL 126/7 or consent of instructor.

BIOL 342 MEDICAL MICROBIOLOGY (4 credit hours) [offered when there is sufficient student demand and faculty members are available] - is a survey of pathogenic viruses, bacteria and fungi; morphology, virulence, diagnosis, and chemotherapy will also be studied. Three lecture periods and two one-hour laboratory periods meet per week. Prerequisite: Grade of “C” or higher in BIOL 211.

BIOL 343 IMMUNOLOGY (4 credit hours) [offered every other year] - considers cellular and humoral responses to infection and disease, including mechanisms of antibody formation, structure of antibodies, consequences of antigen-antibody interactions, cell-mediated immunity, histo-compatability, tumor immunology, and autoimmune disease. Three lecture periods and one three-hour laboratory meet per week. Prerequisite: Grade of “C” or higher in BIOL 211.

BIOL 350 GENETICS (4 credit hours) [offered every spring] - addresses molecular and evolutionary genetics, linkage and mapping, chromosomal aberrations, extranuclear inheritance, genetic interaction, as well as current genetic research and its application. Three lecture periods and one two-hour laboratory meet per week. Prerequisite: Grade of “C” or higher in BIOL 124/5.

BIOL 351 PLANT PHYSIOLOGY (4 credit hours) [offered when there is sufficient student demand and faculty members are available] - will experimentally investigate the effects of water, nutrients, and light on plant growth and development. The topics will be studied at the molecular, cellular and environmental levels. Three lecture periods and one three-hour laboratory meet per week. Prerequisites: Grade of “C” or higher in BIOL 331 and CHEM 322/3.

BIOL 353 ENDOCRINOLOGY (3 credit hours) [offered every other year] - is a survey of the physiological and metabolic actions of selected endocrine glands. Strong emphasis is placed on mammalian physiology and the biochemistry of hormones. Prerequisites: Grade of “C” or higher in BIOL 352, CHEM 322/3 or consent of instructor.

BIOL 361 ECOLOGY (4 credit hours) [offered every other year] - acquaints the student with the dynamics of ecological relationships between man, animals, plants, and the environment. The laboratory will include field experiments in representative ecosystems. The class will meet for three hours of lecture and one three-hour laboratory per week. Additionally, some weekend fieldwork will be required. Prerequisite: Grade of “C” or higher in BIOL 126/7.

BIOL 390 METHODS OF TEACHING BIOLOGY IN THE SECONDARY SCHOOL (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - is for students preparing to teach in junior and senior high school (6-12). Students will develop methods and techniques of teaching biology, such as use of live and preserved organism in the lab, teaching in the field, applications of the scientific method,
use of A.V. materials, questioning and listening skills, lecture and small group techniques and assessment procedures. Professional growth will also be discussed. Students will be required to demonstrate an understanding of the various skills needed for teaching biology. The course requires an in-class presentation and videotaping for self-observation, and evaluation. (40 clock hours of clinical experience required.) Prerequisites: EDUC 210 and EDUC 220, EDUC 391.

BIOL 410 SENIOR SEMINAR (3 credit hours) [offered every spring] - provides a capstone experience for senior biology majors that can be used in place of BIOL 411 and BIOL 412. Students will work within a theme provided by the instructor (for example: ecological biology, biodiversity of Illinois communities, bioethics, and molecular biology) to demonstrate critical thinking skills, an ability to synthesize scientific literature, an understanding of the scientific process, and the ability to communicate biological concepts in writing and oral presentations. Prerequisite: Senior biology major.

BIOL 411 SENIOR THESIS I (1 credit hour) [offered every semester] - acquaints the student with research and reference facilities and offers the opportunity for independent research. Successful completion of thesis proposal, outline and bibliography are required before advancing to BIOL 412. Prerequisite: Senior biology major.

BIOL 412 SENIOR THESIS II (2 credit hours) [offered every semester] - is a continuation of BIOL 411. Students prepare and complete their thesis under the supervision of a faculty advisor. Students also prepare for the oral presentation of their research at the end of the semester. Prerequisite: BIOL 411. Required of Biology Fellows.

BIOL 480 SELECTED TOPICS IN BIOLOGY (2-4 credit hours) [offered when there is sufficient student demand and faculty members are available] - are specialized courses offered depending on student and faculty interests.

BIOL 481 SELECTED TOPICS IN BOTANY (3-4 credit hours) [offered when there is sufficient student demand and faculty are available] - offers advanced or specialized botany courses through the ACCA Cooperative College Botany Program at the Morton Arboretum. Prerequisite for all courses is BIOL 331 General Botany or consent of instructor.

BIOL 482 SELECTED TOPICS IN ZOOLOGY (3-4 credit hours) [offered when there is sufficient student demand and faculty are available]

BIOL 483 SELECTED TOPICS IN AQUATIC AND MARINE BIOLOGY (3-4 credit hours) [offered when there is sufficient student demand and faculty are available]

BIOL 494 SPECIAL PROBLEMS (1-4 credit hours) [offered when there is sufficient student demand and faculty members are available] - affords the student the opportunity of investigating a biological problem by laboratory or field experience. The study should be defined prior to registration through consultation with the supervising instructor. Prerequisite: junior standing or consent of the instructor.

BIOL 495 DIRECTED STUDY (1-4 credit hours) [offered when there is sufficient student demand and faculty are available]

BIOL 496 INDEPENDENT STUDY (1-4 credit hours) [offered when there is sufficient student demand and faculty are available]

BIOL 497 UNDERGRADUATE RESEARCH PROGRAM (1-12 credit hours) [offered when there is sufficient student demand and faculty are available] - selects students to engage in research activities with scientists at local research institutions such as Argonne National Laboratory, Morton Arboretum, Shedd Aquarium and with the Will County Forest Preserve District.

BIOL 498 INTERNSHIPS (1-6 credit hours) - allows for credit to be earned through
internships and cooperative programs such as those available through Argonne National Laboratory, Morton Arboretum, Shedd Aquarium, and the Will County Forest Preserve District.

**BUSINESS ADMINISTRATION (BSAD)**

**BSAD 201 BUSINESS LAW I** (3 credit hours) [offered every year] - provides an introduction to the procedural workings of our legal system together with substantive law subjects. During the semester students learn about common law contracts, agency, bailments, and products liability. Emphasis is on learning to identify legal issues and problem solving. The goal is that students develop the analytical skill to apply the law they learn to real life situations. (IAI Course # BUS 912)

**BSAD 202 BUSINESS LAW II** (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - includes a wide range of legal topics. The purpose is to give students expanded background they may need for licensing examinations that test legal knowledge. Students learn about business organizations and the Articles of the Uniform Commercial Code, which regulate negotiable instruments, promissory notes, and secured transactions. The course also covers insurance, real property, and government regulation. Prerequisite: BSAD 201.

**BSAD 214 ECONOMICS AND STEWARDSHIP** (3 credit hours) - explores the ethical and religious perspective on economics. Topics include utility theory in relation to consumption and happiness, income distribution, poverty, role of a welfare state in a market economy, labor markets and wage discrimination. Emphasis will be placed on economics as a social science and its effect on the overall society, as well as on communities, families, and individuals. This online course is restricted to Health Care Leadership, and Organizational Leadership students.

**BSAD 250 BUSINESS DRIVEN TECHNOLOGY** (3 credit hours) (offered every semester) – this course is designed to provide students with a broad-based understanding of technology as it relates to and impacts business on a global scale. Modules will cover how business achieves success through technology, how technology is driving global competition, the rate in which technology is accelerating, and how to successfully manage your career in the technical revolution.

**BSAD 277 BUSINESS RESEARCH** (3 credit hours) [offered every fall] - introduces conceptual tools and techniques necessary to conduct business research. Students will understand scientific research, how to use secondary and primary data, write research proposals, have a knowledge of research design and methods, and know how to analyze, interpret and present research results. Prerequisite: MKTG 175 and MATH 175 or MATH 105.

**BSAD 300 INTERNATIONAL BUSINESS** (3 credit hours) [offered every fall] – examines international business issues such as global monetary systems, international marketing and management strategies and trade alliances along with cultural literacy required in the international business environment. Prerequisite: ECON 101.

**BSAD 495 BUSINESS POLICY** (3 credit hours) [offered every semester] – serves as the capstone course for business majors, which integrates the functional areas of business required for the effective operation of an organization. Students will analyze business problems from the viewpoint of top management in the formulation and implementation of a business strategy. Interwoven within the course is the importance of business ethics. Prerequisite: senior standing and completion of core.
CHEM 105 CHEMISTRY AND THE ENVIRONMENT (4 credit hours) [offered every spring] - is intended for non-science majors. This lecture/lab course strives to develop a broad outlook on the role of chemistry in everyday life (energy, pollution, water, food, drugs, etc.) Emphasis is on the historical, scientific, political and moral dimensions of the decision process. A variety of learning techniques will be utilized, such as formal lectures, discussion groups, audio-visuals, laboratory demonstrations, collaborative learning, and field trips (where appropriate). The laboratory component is designed to show chemistry in practice and enable students to solve environmental problems using chemistry. (IAI Course # P1 903L)

CHEM 120 FOUNDATIONS OF CHEMISTRY (5 credit hours) [offered every spring] - is designed for students in health-related majors as well as for those seeking to fulfill liberal education requirements. It provides an introduction to inorganic, organic, and biological chemistry and the principles that govern them. The course will focus on the interrelatedness of all these areas as well as their practical applications to health science. The principles selected from the general and organic chemistry areas will be the ones directly lined to the topics studied in biochemistry. This will allow specific emphasis to be placed on the close link between the structure of a molecule and its function. The laboratory component will reinforce some of the lecture topics, but will also focus on how the scientific method is really used to solve problems. Prerequisite: High school chemistry; 2 years of high school algebra.

CHEM 121 GENERAL CHEMISTRY I (5 credit hours) [offered every fall] - introduces students to the fundamental principles of general chemistry including atomic structure, chemical bonding, stoichiometry, physical states of matter, thermodynamics and solution chemistry. Laboratory experiments will demonstrate the theoretical principles and give experience in laboratory techniques. Four lecture periods and one three-hour laboratory meet per week. Prerequisite: High school chemistry; 2 years of high school algebra. (IAI Course # BIO 906, CHM 911, CLS 906, EGR 961, NUR 906, P1 902L)

CHEM 122 GENERAL CHEMISTRY II (5 credit hours) [offered every spring] - is a continuation of CHEM 121 in which students use their knowledge of structure, bonding, solutions, and stoichiometry to study the concepts of acid-base and redox reactions, kinetics, equilibrium systems and electrochemistry. The laboratory will demonstrate the principles from theory while introducing the student to more sophisticated laboratory procedures and equipment, including titrations, pH measurement, and spectrophotometry. Four lecture periods and one three-hour laboratory meet per week. Prerequisite: Grade of “C” or higher in CHEM 121. (IAI Course # BIO 907, CHM 912, CLS 907, NUR 907)

CHEM 160 BIOLOGICAL CHEMISTRY (4 credit hours) [offered every spring] - is designed for students with career goals in allied health sciences. The focus of the course will be on the four major types of biomolecules, and their structures and functions. Emphasis will be placed on the close link between structure and function. The unique properties and roles of organic functional groups in the structures of the biomolecules are stressed. The laboratory component will reinforce some of the lecture topics and highlight basic biochemical laboratory techniques. Three lecture periods and one two-hour laboratory period are scheduled. Prerequisite: Grade of “C” or higher in BIOL 124/5 or CHEM 121.

CHEM 194 TOPICS (1-4 credit hours) [offered when there is sufficient student demand and faculty members are available] is a title given to a course which covers broad themes, practices, and subject content not currently offered in the curriculum. This course is directed primarily at non-majors and may be used for general education where approved. Generally does not have prerequisites.
CHEM 224 ORGANIC CHEMISTRY I (3 credit hours) [offered every fall] - is designed for science majors. The lectures will provide students with the fundamentals of organic chemistry. The general emphasis will be on the chemistry of aliphatic and aromatic hydrocarbons, stereochemistry, and ionic reactions with special emphasis on mechanisms and synthesis. CHEM 225 must be taken concurrently. Prerequisite: Grade of “C” or higher in CHEM 122. (IAI Course # BIO 908, CHM 913, CLS 908, EGR 963, NUR 908)

CHEM 225 ORGANIC CHEMISTRY I LAB (2 credit hours) [offered every fall] - is designed to teach the most common techniques used in the field of organic chemistry. The approach is investigative where theories that govern techniques are conceptualized through hands-on experience. The students will learn how to perform the following techniques: extraction, recrystallization, melting point, distillation, chromatographic separation, infrared spectroscopy, and synthesis. In addition, an introduction to chemical literature will be emphasized. (IAI Course # BIO 908, CHM 913, CLS 908, EGR 963, NUR 908)

CHEM 226 ORGANIC CHEMISTRY II (3 credit hours) [offered every spring] - is a continuation of Organic Chemistry I. The lectures will provide students with the fundamentals of organic reactions, mechanisms, and synthesis. The emphasis will be on the chemistry of alcohols, phenols, ethers, epoxides, carbonyl chemistry, amines, macromolecules, and chemistry of drugs. CHEM 226 must be taken concurrently. Prerequisite: Grade of “C” or higher in CHEM 224. (IAI Course # BIO 909, CHM 914, CLS 909, EGR 964)

CHEM 227 ORGANIC CHEMISTRY II LAB (2 credit hours) [offered every spring] - is an investigative approach where the theories that govern synthesis are conceptualized through hands-on experience. The emphasis is on chemical synthesis, biosynthesis, spectroscopy, and qualitative organic identification of organic compounds. (IAI Course # BIO 909, CHM 914, CLS 909, EGR 964)

CHEM 322 BIOCHEMISTRY (3 credit hours) [offered every spring] - is a survey course of biochemical principles, including the major classes of biomolecules, the biochemistry of catabolism and anabolism, and the biosynthesis of informational macromolecules. Prerequisite: Grade of “C” or higher in CHEM 224/5. (IAI Course # CSS 910, NUR 910)

CHEM 323 BIOCHEMISTRY LAB (2 credit hours) [offered every spring] - provides students with a basic understanding of common biochemical laboratory techniques used in the purification and characterization of proteins. These techniques will include various types of column chromatography, enzyme assays, enzyme kinetics, SDS-polyacrylamide gel electrophoresis, and assays for protein determination. The course will also include a component on isolating subcellular organelles and their DNA. (IAI Course # CSS 910, NUR 910)

CHEM 331 INSTRUMENTAL ANALYSIS (3 credit hours) [offered every other year] - designed to give the students a broad experience in the theory of instrumentation. The labs will be investigative in nature, requiring students to use the Internet and chemical literature to explore practical ways of using instruments for solving chemical problems qualitatively and quantitatively. Students will survey the theory and application of instruments such as visible, ultra-violet, infrared, and fluorescence spectrophotometry as well as nuclear magnetic resonance, atomic absorption, chromatography and mass spectrometry. Two lecture periods and one three-hour laboratory meet per week. Prerequisite: Grade of “C” or higher in CHEM 224/5.

CHEM 494 TOPICS (1-4 credit hours) [offered when there is sufficient student demand and faculty members are available] is a title given to a course which covers specific themes, practices, and subject content not currently offered in the curriculum. This course is directed primarily to student majoring in the subject area and could be used to complete major
requirements. The course will provide an in-depth study of a specific topic. Prerequisites will vary.

CHEM 495 DIRECTED STUDY (1-3 credit hours) [offered when there is sufficient student demand and faculty members are available]

CHEM 496 INDEPENDENT STUDY (1-2 credit hours) [offered when there is sufficient student demand and faculty members are available]

**COMPUTER SCIENCE (COMP)**

COMP 101 COMPUTER CONCEPTS AND APPLICATIONS (3 credit hours) [offered every semester] - serves as an introductory course which includes the following topics: an overview of technology today, computer systems design and operation, organizational data flow, emerging technologies, security and ethics, and networks. Hands-on instruction is provided in e-mail, Internet, and Windows. Students will study application software for mastery from the following categories: word processing, spreadsheet, database, desktop publishing, presentation graphics, web pages, Visual BASIC, etc. (IAI Course # BUS 902, CS 910)

COMP 104 PRACTICAL COMPUTING FOR SCIENTISTS (1 credit hour) [offered when there is sufficient student demand and faculty members are available] - serves as an introductory course for science majors. Students will learn and apply to scientific projects: word processing, spreadsheet, and presentation software. Instruction will also be provided in e-mail, Internet, and Windows.

COMP 135 INTRODUCTION TO INFORMATION TECHNOLOGY (3 credit hours) [offered every fall] - This course provides an introduction to the entire computer science discipline. The dynamics of computer science are presented in a historical perspective in which past developments, the current state of the art, and directions of research are discussed. Includes such topics as programming languages, operating systems, algorithms, software engineering, networking and the Internet, database design, artificial intelligence, machine architecture, and ethical and legal issues related to computing. Students will be introduced to web programming.

COMP 140 COMPUTER SCIENCE I (4 credit hours) [offered every spring] - provides an introduction to computer science topics including the history of computing, algorithm development, program design and modularity, documentation and debugging, program logic and flow of control, file I/O, number representations and data types, Boolean algebra, introduction to object oriented programming, structures and classes. Prerequisite: MATH 111 or consent of the instructor. (IAI Course # CS 911)

COMP 141 PROGRAMMING IN VISUAL BASIC (3 credit hours) [offered every fall] - provides an introduction to computer science topics including the history of computing, algorithm development, program design and modularity, program logic and flow of control, number representations and data types, documentation, graphical user interface design, and debugging. Problems will be solved using Visual BASIC. Prerequisite: MATH 111.

COMP 150 COMPUTER SCIENCE II (3 credit hours) [offered every fall] - provides an introduction to advanced computer science topics including software engineering, advanced design and modularization techniques; inheritance, polymorphism templates, pointers and user created class libraries; and an introduction to basic data structures including lists, stacks, queues and trees, using object-oriented programming techniques. Prerequisite: COMP 140 or consent of the instructor. (IAI Course # MTH 922)

COMP 200 MICROCOMPUTER SYSTEMS (3 credit hours) [offered every spring] -
serves as an introduction to the hardware and systems software used in contemporary IBM-compatible microcomputer systems. The topics include the CPU, the system bus, memory, BIOS, keyboard, video, disk drives, parallel, and serial ports, and the MS-DOS operating system. The internal features of the hardware and operating system are examined using several utility programs and programming languages. Prerequisites: COMP 140 or COMP 141 or consent of the instructor.

COMP 201 INTRODUCTION TO DBMS (3 credit hours) [offered every other year] - provides an introduction to the functions and capabilities of database management systems and their use in a business environment. Focus will be on a comparative examination of current DBMS packages in terms of file management versus database management, text-based and graphical interfaces, fourth generation tools (report writers, screen generators), query languages (SQL, QBE), database programming languages and multi-user issues. Prerequisite: COMP 141.

COMP 205 INFORMATION SYSTEMS: ANALYSIS AND DESIGN (3 credit hours) [offered every other year] - examines the development and use of effective information systems in organizations and software development in the framework of the systems development life cycle (SDLC). The course concentrates on the system analysis and design phases. Various approaches to system specifications, requirements analysis, process modeling, data modeling, procedural design and user interface design are presented. Prerequisite: COMP 140 or 141 are highly recommended.

COMP 207 NETWORK FUNDAMENTALS (3 credit hours) [offered every semester] - examines and implements Local Area Network and Wide Area Network technologies. Hardware, software and implementation techniques will be discussed. The focus is on the importance of providing LAN and WAN technology to a specific user base. This course integrates an understanding of business goals and objectives with current networking technologies and server installations. Prerequisite: COMP 200.

COMP 241 WEB PROGRAMMING LANGUAGES (3 credit hours) [offered every other year] - This course provides an introduction to the prevailing languages that are used to support web application development. It includes current and emerging language tools, methodologies and products. Students will create web pages and web sites using the tools of the course.

COMP 253 JAVA (3 credit hours) [offered every other year] - This course is a study of Object Oriented Programming in Java. Topics include Java applets, Java system classes, control structures and methods, arrays, developing graphical user interfaces, incorporating graphics and other multimedia, networking and Java utilities.

COMP 254 ADVANCED DATA STRUCTURES (3 credit hours) [offered every other year] - offers an advanced study of complex data structures, the algorithms that manipulate various data structures, and how to select from among the data structures available for a given application. Emphasis is placed on implementing and evaluating data structures for practical situations. Topics include: trees, graphs, networks, advanced sort and search algorithms, and memory management. Prerequisite: COMP 150 or consent of the instructor.

COMP 294 TOPICS (4 credit hours) [offered when there is sufficient student demand and faculty members are available] - is a title given to a course which covers broad themes, practices, and subject content not currently offered in the curriculum. This course is directed primarily at non-majors and may be used for general education where approved. Generally does not have prerequisites.

COMP 301 DATABASE ADMINISTRATION (3 credit hours) [offered every other year] -
describes the role of the database administrator in managing an organization’s most valuable asset – its data. Topics covered include database layout, development, security, data fragmentation, rollback segments, backup and recovery, and distributed databases. Special emphasis is given to working with current enterprise database management systems. Prerequisite: COMP 201.

COMP 312 SERVER INSTALLATION AND CONFIGURATION (3 credit hours) [offered every other year] - prepares the student to analyze, design, install, and configure mini and client-server computer systems. Topics include: enterprise analysis and design methodologies for LAN/WAN topologies, as well as server and client installations, several different operating system installations reflecting the current environment. Prerequisite: COMP 207.

COMP 324 COMPUTERS IN HEALTH CARE ADMINISTRATION (4 credit hours) – examines the professional, personal, and social factors in computers and their modern day application. It is designed as an overview and introduction to computer literacy.

COMP 335 OPERATING SYSTEMS (3 credit hours) [offered every other year] - provides an overview of the concepts, functions, data structures, and algorithms applied in the design of modern operating systems. Topics include historical developments, hardware support, operating system components and services, system calls, concurrent processes, CPU scheduling, process coordination, deadlocks, memory management, virtual memory, disk management, file systems, and protection. Current developments in operating systems are given special emphasis. Prerequisite: COMP 150.

COMP 350 NETWORK SECURITY (3 credit hours) [offered every other year] - This course investigates ways in which attackers can infiltrate systems to obtain secured data, including stealing an identity; using an IP address to gather information through port scanning, sniffing; and attacking password files. Also covered will be countermeasures to protect sensitive information, including implementation of firewalls, discussion of encryption methodologies, biometric devices, and hardening of system installations. Prerequisite: Consent of the instructor. Junior standing recommended.

COMP 356 THEORY OF PROGRAMMING LANGUAGES (3 credit hours) [offered every other year] - provides a historical study of programming language design, structure, and implementation. The emphasis is on the evolution of the imperative languages, but more recent approaches such as object-oriented, functional and procedural programming are considered. Some of the languages that may be covered include FORTRAN, ALGOL, Pascal, Ada, Lisp, Prolog, VRML, XML, Java and C++. Each language is examined in terms of its data structures, control structures, scope rules, and special syntax and semantic features. Prerequisite: COMP 150.

COMP 360 ASSEMBLER (3 credit hours) [offered every other year] - studies assembly language programming and provides an introduction to machine organization at the hardware level using microprocessor architecture. Topics include CPU design and organization, I/O hardware and programming, hardware interrupts, memory structures, and digital level hardware device interfacing. Emphasis is placed on the hardware and assembly language support for high level languages and operating systems. Prerequisite: COMP 150 or consent of the instructor.

COMP 365 GRAPHICS (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - offers an introduction to the algorithmic foundations of graphics generation, graphics hardware devices, and 2-D and 3-D modeling applications. Topics include: display algorithms for producing output primitives with various attributes, vector graphs in two and three dimensions, image generation, representation and
manipulation, modeling and hidden line/surface elimination, shading and color. Prerequisite: COMP 150, and MATH 181 or MATH 170 or consent of instructor

COMP 400 DATABASE MANAGEMENT (3 credit hours) [offered every other year] - introduces students to database theory and design. It combines database design principles with hands-on experience in designing and using a database. Emphasis is on the relational model, focusing on E-R diagrams, normalization, query languages, data definition languages, and security and integrity issues. Prerequisite: COMP 335 or consent of the instructor.

COMP 401 WEB SERVER DESIGN/ADMINISTRATION (3 credit hours) [offered every other year] - focuses on the design, implementation, and administration of a Web Server. It prepares the student to work with a variety of Web-based tools and addresses security issues. Principal projects in the course will be Website creation and database integration. Prerequisite: consent of the instructor. Junior standing recommended.

COMP 411 GRAPHICAL USER INTERFACE PROGRAMMING (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - introduces students to techniques used in programming graphical user interfaces such as those used in Microsoft Windows platforms. Students will gain experience with programming at least two of the most common GUIs currently in use. Some emphasis will be placed on the human factors (color combinations, menu placement, visual cues, etc.) associated with programming GUIs. Prerequisite: COMP 150 or consent of the instructor.

COMP 412 SYSTEMS ADMINISTRATION (3 credit hours) [offered every other year] - prepares the student to administer mini and client-server computer systems. Topics include server administration for Unix, Linux, and Windows platforms, management of large environments, automation of tasks, use of tools and understanding the functionality to support and administer environments, administering an environment with a large number of users, administering a distributed environment, administering a large desktop environment and automating processes. Prerequisite: COMP 312 or consent of the instructor.

COMP 420 DATA COMMUNICATIONS (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - serves as an introductory course in data communications. Topics include data communication functions, the OSI model, international standards, analog and digital signals, transmission media, synchronous and asynchronous communications, modems, data link protocols, LAN hardware and software, circuit switching and packet switching, network routing algorithms, communications between networks, and application layer services. Prerequisite: COMP 335.

COMP 440 ARTIFICIAL INTELLIGENCE (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - offers an overview of the history, principles, and technology underlying modern artificial intelligence. The course focuses on knowledge representation and search techniques in artificial intelligence. Topics include predicate calculus, resolution theorem proving, state space search, production systems, heuristic search, expert systems, semantic nets and frames, natural language understanding, and object-oriented knowledge representation. Students are given experience with Artificial Intelligence programming languages such as LISP and PROLOG. Prerequisite: COMP 254.

COMP 475 COMPUTER ARCHITECTURE (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - provides an introduction to the functional elements and structures of digital computers. Digital logic, combinational and sequential circuits are studied in lecture and laboratory. The hierarchy of computer organization and how the digital level, microprogramming level, conventional level and assembly language level are interrelated is studied. Also provides an understanding of present day technology including buses, modern input/output devices, operation of a typical IBM PC
clone at the chip level, pipelining, cache memories, and current architecture trends such as RISC machines and multiprocessors. Prerequisite: COMP 360 or consent of the instructor.

COMP 480 SENIOR PROJECT (3 credit hours) [offered every other year] - provides senior students with the opportunity of working on a team software development project. The project gives students experience in problem solving, applying technical knowledge obtained in previous Computer Science courses, and improving written and verbal communication skills.

COMP 494 TOPICS (1-4 credit hours) [offered when there is sufficient student demand and faculty members are available] - is a title given to a course which covers specific themes, practices, and subject content not currently offered in the curriculum. This course is directed primarily to student majoring in the subject area and could be used to complete major requirements. The course will provide an in-depth study of a specific topic. Prerequisites will vary.

COMP 495 - DIRECTED STUDY (1-3 credit hours) [offered when there is sufficient student demand and faculty members are available]

COMP 496 - INDEPENDENT STUDY (1-3 credit hours) [offered when there is sufficient student demand and faculty members are available] - requires an advanced application project selected by a team of students or an individual student dependent on interest and language desired. Emphasis is on thorough and professional design, implementation, testing procedures, evaluation, and documentation. Prerequisite: Senior standing.

COMP 498 - INTERNSHIP (3-6 credit hours) [offered every semester] - offers on-the-job career training program with regional computer application users to extend the upper level computer science concepts through experience. Prerequisite: Junior standing.

CRIMINAL AND SOCIAL JUSTICE (CSJU)

CSJU 101 INTRODUCTION TO THE CRIMINAL JUSTICE SYSTEM (3 credit hours) [offered every spring] - This course in the entry level course for freshmen, providing an introduction to the system of criminal justice. It is the prerequisite for the 200 level courses. This course, and the next four 200-level courses, is designed to provide an easily articulated and transferable introductory set of courses.

CSJU 220 CRIMINAL LAW (3 credit hours) [offered every fall] - This course will provide students with a basic understanding of the legal process of the American Criminal Justice System. We will examine criminal court jurisdiction, criminal procedure, basic criminal law concepts, the adversary system, substantive criminal law, sentencing, and the professional actors in the criminal justice system.

CSJU 225 INTRODUCTION TO CORRECTIONS (3 credit hours) [offered every spring] - This course examines the evolution of corrections from early punishments and penitentiaries to present. Modern approaches to corrections including jails and prisons, management and custody issues, prison life, differences between male and female prisoners, prisoner rights, special needs prisoners, alternatives to incarceration, rehabilitation, probation, parole, and community corrections are highlighted. The course will include appropriate field trips and guest speakers. Prerequisite: CSJU 101.

CSJU 230 JUVENILE DELINQUENCY (3 credit hours) [offered every spring] - Juvenile Delinquency examines critical theories, the philosophy of juvenile justice, the nature of juvenile delinquency, the scope of the problem in the United States, prevention and control and the juvenile justice system. The roles of family, community, policing and the courts will also be examined.
CSJU 240 CRIMINOLOGY (3 credit hours) [offered every fall] - Criminology explores the empirical, theoretical and descriptive aspects of crime. The social, political, psychological, economic and biological factors of crime will be examined in determining the cause and treatment of crime in society. Overarching questions such as the following will be answered in this course: What is crime? How are crimes defined? How does society punish crimes? What causes crime? How do we study crime? What is the impact of crime on society and victims? Prerequisite: CSJU 101.

CSJU 294 SELECTED TOPICS IN CRIMINAL AND SOCIAL JUSTICE (2-4 credit hours) [offered when there is sufficient student demand and faculty members are available]

CSJU 310 SOCIAL JUSTICE ISSUES (3 credit hours) [offered every fall] - This course focuses the students on the social justice aspects of the discipline and provides a common entry point for transfers to the mission-specific social justice perspective. As a writing-intensive course, the transfer students will be quickly introduced to the writing emphasis in the CSJU courses at USF. This course also provides the opportunity to address social justice issues from a Catholic perspective. Prerequisites: CSJU 220, 225, 230, 240.

CSJU 320 INTRODUCTION TO TERRORISM (3 credit hours) [offered every spring] - Introduction to Terrorism provides a broad framework to study the origins of terrorism, dynamics, ideologies, counterterrorism and issues of homeland security. Terrorist methods, tactics and strategies, and media will be covered. The political aspects of terrorism will also be scrutinized. Global issues of terrorism, impact of civil liberties, prevention of terrorism and concepts of nation building will also be analyzed.

CSJU 333 CRIMINAL AND SOCIAL JUSTICE RESEARCH METHODS (3 credit hours) [offered every fall] - This course is designed to introduce the students to social science research methodology, equipping them with the necessary tools to undertake their own research and evaluate research in a variety of careers and educational experiences. Prerequisite: CSJU 310.

CSJU 370 CRIMINAL JUSTICE AND DIVERSITY ISSUES (3 credit hours) [offered every fall] - Building on CSJU 310, this course examines the administration of justice in an increasingly diverse society. Issues of communication, cultural awareness and sensitivity will be examined. Changes in ethnic groups, including immigration, as well as issues of race will be examined in the context of social and public policies. As in CSJU 310 this course offers the opportunity to address issues from a Catholic perspective. Prerequisite: CSJU 310.

CSJU 494 SELECTED TOPICS IN CRIMINAL AND SOCIAL JUSTICE (2 credit hours) [offered when there is sufficient student demand and faculty members are available]

CSJU 497 SENIOR CAPSTONE PRACTICUM (6 credit hours) [2] - The Criminal and Social Justice Practicum is an on-site experience in the field of criminal and social justice. As the capstone experience, the students will be expected to integrate their learning, from both major and general education courses, demonstrating an ability to apply their learning in a non-academic environment. Possible sites include: law enforcement agencies, prisons, probation and parole offices, social service organizations, private charities, governmental agencies, department store security firms, research institutions or foundations, judicial offices, and homeland security or emergency management organizations. Prerequisite: Senior standing.

ECONOMICS (ECON)

ECON 101 PRINCIPLES OF MACROECONOMICS (3 credit hours) [offered every semester] - introduces macroeconomics, the study of the behavior of the economy as a whole.
Topics discussed include income theory, unemployment, inflation, economic growth, and fiscal and monetary policy in a global framework. (IAI Course # S3 901)

ECON 102 PRINCIPLES OF MICROECONOMICS (3 credit hours) [offered every semester] - introduces microeconomics, the study of individual economic decisions. Major emphasis is given to how individual households and firms decide how much to produce and spend, and how prices are determined in a global economy. (IAI Course # S3 902)

ECON 211 INTERMEDIATE MACROECONOMICS THEORY (3 credit hours) [offered every fall] - studies factors determining aggregate levels of income, employment, and the price level as well as analysis of current macroeconomics monetary and fiscal policies in a global framework. Prerequisite: ECON 101.

ECON 212 INTERMEDIATE MICROECONOMICS THEORY (3 credit hours) [offered every spring] - explores how prices are determined and how prices function to coordinate economic activity and explain resource allocation. Prerequisite: ECON 102.

ECON 302 CONSUMPTION ECONOMICS (3 credit hours) [offered every other year] - studies micro and macro aspects of consumption along with consumption patterns in the U.S. and an examination of the policies regulating the consumer market. Prerequisite: ECON 102.

ECON 312 INTERNATIONAL ECONOMICS (3 credit hours) [offered every other year] - compares the major economic systems in today's industrialized world: along with a discussion of the major trade groups and trade theory. Prerequisite: ECON 101.

ECON 494 TOPICS IN ECONOMICS (1-3 credit hours) [offered when there is sufficient student demand and faculty members are available] - courses not specifically listed in the catalog may be taught under this title. Prerequisites may be required, depending upon the topic.

EDUCATION (EDUC)

EDUC 100 HUMAN RELATIONS (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - introduces the student to the aspects of interpersonal communication and human relationships. Components of the course include patterns of effective communication, self-awareness, value and attitude clarification, resolving conflict, managing anger and stress, group dynamics, and recognizing culture-learned behaviors.

EDUC 121 INSTRUCTIONAL TECHNOLOGY (3 credit hours) [offered every semester] - provides students with the necessary technical skills required for classroom teacher of the twenty-first century. The course will introduce students to the technology-based productivity tools and media that support instruction, extend communication outside the classroom, enhance classroom management, perform administrative routines more effectively, and increase productivity in daily tasks.

EDUC 200 TRANSFER SEMINAR (1 credit hour) [offered every semester] - provides an orientation to the University and to the College of Education. Specific objectives address the mission of the University, the philosophy and conceptual framework of the College of Education, and assessment procedures. Goals of the seminar are both cognitive and affective. This course is required of all candidates (transfers) who transfer in education credits to substitute for EDUC 210 within the baccalaureate degree program.

EDUC 210 TEACHING IN A DIVERSE SOCIETY (3 credit hours) [offered every semester] - is designed to develop insight into the teaching profession and education in a
multicultural society. It explores the professional, political, economic, legal, and social issues affecting the past, present, and future of the field of education. While extending knowledge of cultural and ethnic groups, teacher candidates develop abilities to relate to various micro-cultural groups in a clinical setting and demonstrate understanding of values and contributions of minority groups. The course is routinely taken with a beginning field experience component that provides first-hand knowledge, through educational situations, by which students can expand their views to develop more realistic insights into the educational profession. Prerequisite: Sophomore standing. Co-requisite: EDUC 211, 212 or 213. (IAI Course # EED 901, SED 901)

EDUC 211 ELEMENTARY BEGINNING FIELD EXPERIENCE (1 credit hour) [offered every semester] – provides the elementary teacher candidate an opportunity to observe student diversity, classroom teachers and environments, perform specific duties associated with teaching, and participate in classroom instruction at multiple grade levels. The candidate through this pre-service teaching experience will learn how to teach students individually and using small/large group instruction under the guidance and supervision of classroom teachers and a University Supervisor. An additional fee will be required for the course. The teacher candidate must provide her/his own transportation to and from the assigned school site. The teacher candidate must attend the placement and orientation meetings prior to starting the experience. Prerequisite: Sophomore standing. Co-requisites: EDUC 210. (IAI Course # 251)

EDUC 212 SECONDARY BEGINNING FIELD EXPERIENCE (1 credit hour) [offered every semester] – provides the secondary teacher candidate an opportunity to observe, either in a high school or middle school; student diversity, classroom teachers and environments, perform specific duties associated with teaching, and participate in classroom instruction at multiple grade levels in their specific content areas. The candidate through this pre-service teaching experience will learn how to teach students individually and using small/large group instruction under the guidance and supervision of classroom teachers and a University Supervisor. An additional fee will be required for the course. The teacher candidate must provide her/his own transportation to and from the assigned school site. The teacher candidate must attend the placement and orientation meetings prior to starting the experience. Prerequisite: Sophomore standing. Co-requisites: EDUC 210. (IAI Course # 251)

EDUC 213 SPECIAL EDUCATION BEGINNING FIELD EXPERIENCE (1 credit hour) [offered every semester] – provides the special education teacher candidate an opportunity to observe, either in an elementary or middle school; student diversity, classroom teachers and environments, perform specific duties associated with teaching, and participate in classroom instruction at multiple grade levels focusing on students with exceptionalities. The candidate through this pre-service teaching experience will learn how to teach students individually and using small/large group instruction under the guidance and supervision of classroom teachers and a University Supervisor. An additional fee will be required for the course. The teacher candidate must provide her/his own transportation to and from the assigned school site. The teacher candidate must attend the placement and orientation meetings prior to starting the experience. Prerequisite: Sophomore standing. Co-requisites: EDUC 210. (IAI Course # 251)

EDUC 215 PHYSICAL DEVELOPMENT AND HEALTH EDUCATION (2 credit hours) [offered every semester] – examines the comprehensive nature of the physical, emotional, and social well being of children and adolescents. The teacher candidates will analyze the role of human movement and physical activity as elements central to active
healthy lifestyles; and explore methods to promote all individuals’ ability to develop and practice skills that contribute to good health and enhanced quality of life. Prerequisite: EDUC 210.

EDUC 216 FINE ARTS EDUCATION (2 credit hours) [offered every semester] - examines the educational, communicative, and aesthetic value of dance, drama, music, and visual art and the role fine arts plays in reflecting history and culture. The teacher candidates will explore methods to promote all individuals’ ability to express themselves creatively. Prerequisite: EDUC 210.

EDUC 220 EDUCATIONAL PSYCHOLOGY (3 credit hours) [offered every semester] - directs the students in the application of the principles of psychology to education. Special emphasis is given to understanding growth and development, the learning process, motivation, intelligence, evaluation, measurement and the impact of culture on learning styles. Prerequisite or Co-requisite: EDUC 210. (IAI Course # SED 902)

EDUC 230 SURVEY OF THE EXCEPTIONAL INDIVIDUAL (3 credit hours) [offered every semester] – is designed to introduce special education today and the history of special education as a field of study. Special education has been alternately defined in terms of the process, the place it is delivered, and the methods of delivery (curriculum). The teacher candidates will study the individuals with Disability Education Act (IDEA) of 1997, the process of nondiscriminatory evaluation, and the core guidelines for inclusion and collaboration. Curriculum, methods, and activities for inclusion are discussed. Prerequisite: EDUC 210. (IAI Course # ECE 913, SED 904)

EDUC 240 LEGAL AND HISTORICAL FOUNDATIONS OF EDUCATION (2 credit hours) [offered every fall] - includes the historical foundations, history of provision of services, major movements, current issues, and philosophical changes in general and special education. It also includes state, federal laws, litigation, policies, and administrative practices relevant to education and treatment of individuals with disabilities and their relation to learning and instruction will be examined. Perquisite or Co-requisite: EDUC 210.

EDUC 250 HISTORY AND PHILOSOPHY OF EDUCATION (3 credit hours) [offered every semester] - traces the history of American educational institutions and practices in relation to social and cultural developments in several eras; and examines some major philosophical ideas that have guided educational policy and practice. The teacher candidates will have opportunities to explore the origins of their education and to discover their own assumptions about education. Prerequisite: Sophomore standing; ACAF 201 or PHIL 101 is recommended.

EDUC 294 CHILDREN’S AND MIDDLE SCHOOL LITERATURE (3 credit hours) [offered every fall] - introduces the teacher candidates to a wide variety of literature available and prepares them to evaluate literature available for children and early adolescents. It requires extensive reading of books, practice in evaluating and selecting books, consideration of related media, and development of techniques for bringing children and materials together. Prerequisite: EDUC 220. Also see ENGL 294.

EDUC 330 CLASSROOM ASSESSMENT (3 credit hours) [offered every semester] - explores current theory and practice regarding assessment including formal, standardized, and informal tests and inventories; selection, evaluation and interpretation of tests used in educational settings; preparation and use of teacher-made tests; and utilizing data to improve instruction. Prerequisite: EDUC 220.

EDUC 350 ELEMENTARY INTERMEDIATE FIELD EXPERIENCE FOR MATH/SCIENCE/SOCIAL STUDIES (3 credit hours) [offered every semester] - provides
the opportunity to learn through observation and practice to teach mathematics, science and social studies content to children in small and large groups and involves individual evaluation under the supervision of an elementary cooperating teacher and a university supervisor. This experience provides an opportunity to observe and practice principles and must be taken concurrently with Methods of Teaching Mathematics in the Elementary School, Methods of Teaching Social Studies/Science in the Elementary School, and Discipline and Classroom Management Techniques. The teacher candidates will report to an assigned school each day. Prerequisite: 211 An additional fee will be required for the course. The teacher candidate must provide her/his own transportation to and from the assigned school site. The teacher candidate must attend the placement and orientation meetings prior to starting the experience.

EDUC 352 ELEMENTARY INTERMEDIATE FIELD EXPERIENCE FOR READING AND LANGUAGE ARTS I (3 credit hours) [offered every semester] - provides the opportunity to learn through observation and practice to teach reading and language arts, to mentor in small and large groups, and involves individual evaluation under the supervision of a elementary student teacher and a university resource person. Provides an opportunity to observe and practice the principles learned in Methods of Teaching Reading and Language Arts. Teacher candidates will report to their field experience site every day. Prerequisite: EDUC 211. Co-requisite: EDUC 395 An additional fee will be required for the course. The teacher candidate must attend the placement and orientation meetings prior to starting the experience.

EDUC 353 INTERMEDIATE FIELD EXPERIENCE FOR ELEMENTARY/SECONDARY MUSIC (2 credit hours) [offered every fall] - provides the opportunity to learn through observation and practice to teach music content to elementary and secondary students individually, and in small and/or large groups. This is an individualized experience under the supervision of a cooperating teacher and a university supervisor. This experience also provides an opportunity for the university student to observe and practice principles learned in Educational Psychology and Principles and Methods of Music Education. This field experience is concurrent with a classroom phase of instructional methodology, specific to the field of study. It is essential that students completing this field experience have numerous opportunities to interact with P-12 students and participate in and initiate instruction. Prerequisite: EDUC 210, EDUC 211 or 212, EDUC 220, EDUC 230, EDUC 250 An additional fee will be required for the course. The teacher candidate must provide her/his own transportation to and from the assigned school site. The teacher candidate must attend the placement and orientation meetings prior to starting the experience.

EDUC 355 THEORY AND PRACTICE OF TEACHING IN THE CATHOLIC SCHOOL (2 credit hours) [offered when there is sufficient student demand and faculty members are available] - provides experiences and insights in appreciation of the distinctiveness of Catholic schools, the ministry of the teacher, the distinctive curriculum, and the governance and organization of Catholic schools. In addition, emphasis is placed on specific catechetical methodologies, the faith development of students, and the proper role of parents. The course is for those who intend to teach in the Catholic schools. Prerequisite: Two theology courses.

EDUC 356 METHODS OF TEACHING RELIGION (2-3 credit hours) [offered when there is sufficient student demand and faculty members are available] - studies the methods of teaching religion in the elementary school. This course focuses on course design and methods
with a special emphasis on preparing students for the reception of the sacraments. It fulfills Joliet Diocese and Chicago Catholic School requirements. Prerequisites: One theology course or the consent of the instructor. An additional hour can be earned if students teach a religious education class during the semester of the course.

EDUC 360 PSYCHOLOGY AND DEVELOPMENT OF THE MIDDLE SCHOOL CHILD (3 credit hours) [offered every semester] - focuses on the developmental characteristics of early adolescents, the nature and needs of early adolescents, and the advisory role of the middle grade teacher in assessing, coordinating and referring students to health and social services. The course is required for the State of Illinois Middle School Endorsement. Prerequisite: EDUC 210 and EDUC 220.

EDUC 365 MIDDLE SCHOOL PHILOSOPHY, CURRICULUM, AND INSTRUCTION (3 credit hours) [offered every semester] - focuses on the philosophy of the middle school. It examines the middle school curriculum and instructional methods for designing and teaching developmentally appropriate programs in middle schools including content area reading instruction. The course is required for the State of Illinois Middle School Endorsement. Prerequisite: EDUC 210, EDUC 220, and EDUC 250.

EDUC 372 ASSESSMENT AND DIAGNOSIS OF SPECIAL NEEDS (3 credit hours) [offered every spring] - acquaints the teacher candidate with the formal and informal assessment techniques useful for the assessment of special needs learners. Individually administered achievement, aptitude, and information processing tests will be examined in detail. The course will present information concerning report writing, diagnostic and prescriptive planning. Also, methods of interpreting evaluation data, identifying patterns, and presenting results to a consumer in an understandable and clearly written form will be examined.

EDUC 373 DIAGNOSTIC TECHNIQUES OF TEACHING LITERACY (3 credit hours) [offered every semester] - examines guidelines, procedures and techniques for preventing, diagnosing, and remediation of reading problems. The teacher candidate will learn various reading strategies to use with students in PK-9 classrooms. These strategies will help with the ongoing assessment of the reading needs of the students in their classrooms. Prerequisite: EDUC 352 and EDUC 395. Co-requisite: EDUC 475.

EDUC 375 METHODS OF TEACHING MATH IN THE ELEMENTARY SCHOOL (3 credit hours) [offered every semester] - provides an overview of the materials, content, and methodology utilized by educators. The teacher candidates explore principles in class and utilize them to develop various lesson plan approaches, activities, and teaching aids. Concurrent participation in a field experience is included. Prerequisite: EDUC 210, EDUC 220, MATH 108, and MATH 109. Co-requisite: EDUC 350.

EDUC 380 READING AND WRITING IN THE CONTENT AREA (3 credit hours) [offered every semester] - focuses on the relationship between the language arts (reading, writing, speaking, listening) and specific content area disciplines. The process of effective classroom communication and instruction, as it pertains to increasing the reading and writing strategies of students, will be explored to enhance student learning while making reading and writing in the content area more culturally and developmentally appropriate and meaningful. Prerequisite: EDUC 220.

EDUC 383 CHARACTERISTICS AND METHODS OF TEACHING INDIVIDUALS WITH SPECIAL NEEDS (4 credit hours) [offered every fall] - emphasizes designing and assessing materials to meet the individual educational needs of individuals with mild to moderate disabilities. This course provides specific application of methods and strategies when teaching students with documented disabilities specified in IDEA (1997): Specific
Learning Disabilities (SLD), Serious Emotional Disturbance (SED), Mental Retardation (MR), Autism, Traumatic Brain Injury (TBI), Orthopedic or Other Health Impairment (34 CFR, Section 300.7).

EDUC 385 METHODS OF TEACHING SOCIAL STUDIES/SCIENCE IN THE ELEMENTARY SCHOOL (3 credit hours) [offered every semester] - provides an overview of the materials, content, and methodologies utilized by educators in the elementary science and social studies curriculum. The teacher candidate will explore principles in class and utilize them to develop various lesson plan approaches, activities, and teaching aids. Concurrent participation in a field experience is included. Prerequisites: EDUC 210 and EDUC 220. Co-requisite: EDUC 350.

EDUC 386 SPECIALIZED CURRICULUM AND INCLUSION IN SPECIAL EDUCATION (3 credit hours) [offered every semester] - centers on development of specific competencies in understanding special strategies for accommodations and modifications in the general education curriculum for individuals with mild to severe disabilities.

EDUC 389 EARLY CHILDHOOD AND LANGUAGE DEVELOPMENT (3 credit hours) [offered every fall] - describes early childhood development and the development of language, communication, and their interaction with cognitive, socio/emotional development and learning disabilities. It will also include understanding the impact of language disorders for individuals with disabilities.

EDUC 390 SECONDARY INTERMEDIATE EXPERIENCE (2 credit hours) [offered every fall] - provides participant observations and experiences in classroom to complement theoretical knowledge. Also, provides opportunity to meet requirements of clinical experience prior to student teaching (may be repeated). Prerequisite: EDUC 212 An additional fee will be required for the course. The teacher candidate must provide her/his own transportation to and from the assigned school site. The teacher candidate must attend the placement and orientation meetings prior to starting the experience.

EDUC 391 DISCIPLINE AND CLASSROOM MANAGEMENT TECHNIQUES IN THE INCLUSIONARY SECONDARY EDUCATION CLASSROOM (Grades 6-12) (2 credit hours) [offered every fall] - examines the dynamics of discipline and the latest principles and data which research has shown effective in managing behavior in today’s diverse and inclusive classroom. Numerous discipline models, techniques, methods, and constructs are presented to enable the prospective teacher to move beyond a singular approach in managing classroom behavior in a secondary education learning environment. Prerequisite: EDUC 210, EDUC 220, and EDUC 230.

EDUC 392 DISCIPLINE AND CLASSROOM MANAGEMENT TECHNIQUES IN THE INCLUSIONARY ELEMENTARY EDUCATION CLASSROOM (K-9) (2 credit hours) [offered every fall] - examines the dynamics of discipline and the latest principles and data which research has shown effective in managing behavior at the elementary level. The focus is on how the potential teacher can implement the research findings in both preventing behavior problems and in dealing with existing problems. Concurrent participation in a field experience is included. Prerequisite: EDUC 210, EDUC 220, and EDUC 230.

EDUC 395 METHODS OF TEACHING READING AND LANGUAGE ARTS IN THE ELEMENTARY SCHOOL (3 credit hours) [offered every semester] - examines the psychology and physiology of teaching reading and language arts. The course provides an overview of materials, content, technology and methodologies utilized by educators in curriculum. The teacher candidates explore principles in class and utilize them to develop
various lesson plan approaches, activities, and teaching aids. Concurrent participation in a field experience is required. Prerequisite: EDUC 210 and 220. Co-requisite: EDUC 352.

EDUC 399 CONSULTATION, COLLABORATION, AND TRANSITION FOR INDIVIDUALS WITH DISABILITIES (3 credit hours) [offered every spring] - identifies and describes strategies that show the teacher candidate how to form successful partnerships with families, other educators, outside community agencies, and other professionals in the community for individuals with disabilities. Prerequisite: EDUC 383 (Special Education Majors); Intermediate Field Experience (Non-Major).

EDUC 471 SPECIAL EDUCATION INTERMEDIATE FIELD EXPERIENCE (6 credit hours) [offered every fall] - directed practice under professional guidance. The field experience includes observation, planning and supervised teaching in a setting to work with student identified with mild to moderate disabilities. Prerequisite: EDUC 213. An additional fee will be required for the course. The teacher candidate must provide her/his own transportation to and from the assigned school site. The teacher candidate must attend the placement and orientation meetings prior to starting the experience.

EDUC 475 ELEMENTARY (K-9) ADVANCED FIELD EXPERIENCE (STUDENT TEACHING) (12 credit hours) [offered every semester] - provides a sustained opportunity to apply educational theory in a classroom setting. The teacher candidate is responsible for guiding and directing the learning of a group of students under the guidance and supervision of a professionally certified and competent member of the teaching profession and a University supervisor. Prerequisite: EDUC 352. Co-requisite: EDUC and EDUC 476. An additional fee will be required for the course. The teacher candidate must provide her/his own transportation to and from the assigned school site. The teacher candidate must attend the placement and orientation meetings prior to starting the experience.

EDUC 476 PROFESSIONAL GROWTH SEMINAR (1 credit hour) [offered every semester] – serves as the capstone of an academic and professional experience at USF. It provides an opportunity for selected educational topics to be integrated into theoretical and practical components for continued professional development. Co-requisite: EDUC 475, EDUC 478, EDUC 480 or 482.

EDUC 478 SPECIAL EDUCATION (P-12) ADVANCED FIELD EXPERIENCE (STUDENT TEACHING) (12 credit hours) [offered every spring] - provides a sustained opportunity to apply educational theory in a classroom setting. The teacher candidate is responsible for guiding and directing the learning of a group of students under the guidance and supervision of a professionally certified and competent member of the teaching profession. Co-requisite: EDUC 476. An additional fee will be required for the course. The teacher candidate must provide her/his own transportation to and from the assigned school site. The teacher candidate must attend the placement and orientation meetings prior to starting the experience.

EDUC 480 SECONDARY (Grades 6-12) ADVANCED FIELD EXPERIENCE (STUDENT TEACHING) (12 credit hours) [offered every semester] - serves as a culmination of the professional education courses. The teacher candidate is responsible for guiding and directing the learning of a group of students under the guidance and supervision of professional certified and competent members of the teaching profession. Prerequisites: EDUC 210, EDUC 212, EDUC 220, EDUC 230, EDUC 250. Co-requisite: EDUC 476. An additional fee will be required for the course. The teacher candidate must provide her/his own transportation to and from the assigned school site. The teacher candidate must attend the placement and orientation meetings prior to starting the experience.

EDUC 482 MUSIC (K-12) ADVANCED FIELD EXPERIENCE (STUDENT TEACHING) (12 credit hours) [offered every spring] - provides a sustained opportunity to apply educational theory in a classroom setting. The teacher candidate is responsible for guiding and directing the learning of a group of students under the guidance and supervision of a professionally certified and competent member of the teaching profession. Co-requisite: EDUC 476. An additional fee will be required for the course. The teacher candidate must provide her/his own transportation to and from the assigned school site. The teacher candidate must attend the placement and orientation meetings prior to starting the experience.
TEACHING) (12 credit hours) [offered every semester] – provides a sustained opportunity to apply educational theory in a classroom setting. The teacher candidate is responsible for guiding and directing the learning of a group of students under the guidance and supervision of a professionally certified and competent member of the teaching profession and a university supervisor. Prerequisites: EDUC 210, EDUC 211 or 212, EDUC 220, EDUC 230, EDUC 250. Co-requisite: EDUC 476. An additional fee will be required for the course. The teacher candidate must provide her/his own transportation to and from the assigned school site. The teacher candidate must attend the placement and orientation meetings prior to starting the experience.

EDUC 489 PROFESSIONAL DEVELOPMENT SCHOOL FELLOWSHIP (1 credit hour) [offered every semester] offers opportunities for Joliet Professional Development School Partnership (JPDSP) Fellows to develop and enhance their collaboration skills and focus on the diversity found in today’s classrooms. It includes experiences that lead to an immersion experience in the school culture.

EDUC 494 TOPICS IN EDUCATION (1-3 credit hours) [offered when there is sufficient student demand and faculty members are available] - provides for the study of selected topics in education not included in the regular curriculum. It may be repeated for credit under different topics to a total of 3 semester hours.

EDUC 495 DIRECTED STUDY (1-3 credit hours) [offered when there is sufficient student demand and faculty members are available] - provides an academic learning experience that is designed by a faculty member. Faculty direct teacher candidates in examining relevant problems and issues in the field of education, which are not covered in the regular course offerings. Strategies for dealing with the issue will be identified as well as an evaluation plan. Permission of the academic advisor is required.

EDUC 496 INDEPENDENT STUDY (1-3 credit hours) [offered when there is sufficient student demand and faculty members are available] - allows the teacher candidate to select his/her own topic of investigation and determine means to pursue and report work with faculty availability and approval of a written plan. A faculty advisor serves as a resource person. The candidate provides goals, materials, and criteria for evaluation.

EDUC 498 PRACTICUM (1-3 credit hours) [offered when there is sufficient student demand and faculty members are available] - allows the teacher candidate to select and design a field experience project approved in a written contract by a University faculty advisor. The contract includes a letter of description from the candidate's field experience supervisor. A minimum of thirty-clock hours involvement is required of the candidate, with the manner of reporting results to be decided in collaboration with the candidate’s University advisor and field experience supervisor. A final letter of recommendation from the field experience supervisor is mandatory. (The student provides her/his own transportation.)

ENGLISH (ENGL)

ENGL 101 WRITING TUTORIAL I (1 credit hour) [offered every fall] - is a structured series of individual conferences with Writing Center tutors to supplement College Writing I for designated students.

ENGL 102 WRITING TUTORIAL II (1 credit hour) [offered every spring] - is a continuation of ENGL 101. Special attention will be paid to writing from sources.

ENGL 111 COLLEGE WRITING I (3 credit hours) [offered every semester] - offers the student extensive practice in writing persuasive and referential prose. (IAI Course # C1 900)

ENGL 112 COLLEGE WRITING II (3 credit hours) [offered every semester] - offers the
opportunity for writing persuasive and referential prose with emphasis on the process of research and writing from sources. Prerequisite: ENGL 111 or equivalent. (IAI Course # C1901R)

ENGL 200 INTRODUCTION TO LITERATURE (3 credit hours) [offered every semester] - provides students with an extensive exploration of fiction, poetry, drama and/or film, and sometimes the literary essay. The components of these genres are examined in order that students will be knowledgeable and critical readers. Prerequisite: ACAF 102 or ENGL 112 or its equivalent. (IAI Course # H3900)

ENGL 210 WRITING FOR PROFESSIONALS (3 credit hours) [offered every semester] - engages students in reflective, transactional, and persuasive writing appropriate for writers in the workplace. Writing will be discussed and practiced as a tool for reporting, persuading, and learning in a variety of forms which may include journals, letters, experiential writing, memos, reports, proposals, performance reviews, etc. This on line course is restricted to Management (BS), BSN-Fast Track, Health Care Leadership, and Organizational Leadership students.

ENGL 214 IMAGES OF WOMEN IN LITERATURE (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - examines the roles that have been assigned to women in literature and explores the influence that women's literary images have upon men, women, and cultural values. Prerequisite: ENGL 200 or equivalent.

ENGL 260 RELIGIOUS THEMES IN FILM AND LITERATURE (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - examines the relationship between basic theological issues and literary expression through an intensive study of selected major works in fiction, poetry, drama and film. Prerequisite: ENGL 200 or equivalent.

ENGL 291 ADOLESCENT LITERATURE (3 credit hours) [offered every other spring] - provides an introduction to the wide variety of diverse literature targeted for adolescent/young adult readers. Surveying the field, the course highlights and analyzes recent publications as it acknowledges significant, earlier texts and their distinguishing features. It requires extensive reading of books, practice in selecting and evaluating books as well as development of a set of resources for use in teaching. Prerequisite: ACAF 102 or ENGL 112 or its equivalent.

ENGL 294 CHILDREN’S AND MIDDLE SCHOOL LITERATURE (3 credit hours) [offered every other year] - introduces the student to a wide variety of literature available and prepares him/her to evaluate literature available for children. It requires extensive reading of books, practice in evaluating and selecting books, consideration of related media and development of techniques for bringing children and materials together. See also EDUC 294.

ENGL 295 TOPICS IN LITERATURE (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - is a title given to a course which covers broad themes, practices, and subject content not currently offered in the curriculum. This course is directed primarily at non-majors and may be used for general education where approved. Prerequisite: ENGL 200 or equivalent.

ENGL 302 BRITISH LITERATURE TO 1700 (3 credit hours) [offered every other year] - is organized chronologically, from the earliest Anglo-Saxon literature through the British literature of the seventeenth century, as well as thematically. The historical period remains constant, but the thematic focus varies at the discretion of the instructor. Prerequisite: ENGL 200 or equivalent.
ENGL 303 BRITISH LITERATURE AFTER 1700 (3 credit hours) [offered every other year] - is organized chronologically, from 1700 to present, as well as thematically. The historical period remains constant, but the thematic focus varies at the discretion of the instructor. Prerequisite: ENGL 200 or equivalent.

ENGL 311 CREATIVE WRITING (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - provides, in a seminar/workshop format, extensive practice in various literary forms. (Class size limited to 15.) Prerequisite: ENGL 200 or equivalent.

ENGL 312 LITERARY NON-FICTION (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - treats selected works of non-fiction in various modes - e.g., persuasive, journalistic, belles-lettres, "creative," among others - and examines their status as "literature." Prerequisite: ENGL 200 or equivalent.

ENGL 315 ADVANCED COMPOSITION: THEORY AND PRACTICE OF RHETORIC (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - involves an examination of classical and modern rhetorical ideas in relation to thinking and writing processes. It is designed to provide students with writing practice and analysis of texts in the context of a relatively systematic understanding of rhetoric. Prerequisite: ACAF 102, or ENGL 112, or equivalent.

ENGL 316 TECHNICAL WRITING (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - provides an introduction to and practice in rhetorical contexts, organizational forms, styles, and formal conventions of transactional writing, with an emphasis on written communications (such as memoranda, reports, letters, etc.). Prerequisite: ACAF 102, or ENGL 112, or equivalent.

ENGL 317 WRITING IN THE PROFESSIONS (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - develops a general understanding of rhetorical contexts, organizational forms, styles, and formal conventions of writing in the professions and academic disciplines, and develops proficiency in the writing of one profession or discipline for both internal and external audiences. Prerequisite: ACAF 102, or ENGL 112 or its equivalent.

ENGL 318 TEACHING COMPOSITION (3 credit hours) [offered every other year] - explores those aspects of writing that are learnable and teachable in the contexts of the history of writing instruction, and cognitive, rhetorical, and pedagogical theories and practice. Intended primarily for prospective teachers. Prerequisite: ACAF 102, or ENGL 112 or its equivalent. Should follow ENGL 315 Advanced Composition: Theory and Practice of Rhetoric whenever possible.

ENGL 319 TUTORING COMPOSITION (3 credit hours) [offered every other year] - trains students to tutor writing in individual conferences and has value for future teachers and others who are interested in studying principles and techniques of composition applied to the one-on-one writing conference. Prerequisite: ACAF 102, or ENGL 112, or equivalent. Should follow ENGL 318 Teaching Composition whenever possible.

ENGL 321 THE ENGLISH LANGUAGE: HISTORY AND GRAMMARS (3 credit hours) [offered every other year] - treats the history of the English language, the relationship of English to other languages, and the process of language change. It also examines the structure of modern American English as it is described in the major grammars. Prerequisite: ACAF 102, or ENGL 112, or equivalent.

ENGL 322 STYLE (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - focuses on the analysis of prose syntax, rhythms, diction and
figurative language, primarily at the sentence level, introducing appropriate concepts and techniques.

ENGL 340 AMERICAN LITERATURE TO 1900 (3 credit hours) [offered every other year] - introduces students to selected major American literary works and related documents from the Colonial period to 1900. As in all of the historical surveys (ENGL 351-353, ENGL 360), students will study these works within the social, historical, political, philosophical, scientific, and artistic contexts of their period. Prerequisite: ENGL 200 or equivalent. (IAI Course # EGL 911)

ENGL 341 AMERICAN LITERATURE AFTER 1900 (3 credit hours) [offered every other year] - is organized chronologically, 1900 to the present, as well as thematically. The historical period remains constant, but the thematic focus varies at the discretion of the instructor. Prerequisite: ENGL 200 or equivalent.

ENGL 361 WORLD LITERATURE I (3 credit hours) [offered every other year] - surveys non-English literature in translation from Biblical times to the late Renaissance. Prerequisite: ENGL 200 or equivalent.

ENGL 362 WORLD LITERATURE II (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - surveys non-English literature in translation from the Enlightenment through the twentieth century. Prerequisite: ENGL 200 or equivalent.

ENGL 371 CHAUCER (3 credit hours) [offered every other year] – provides students with a broad understanding of the writer considered the “father of English literature” through study of selected major works. Prerequisite: ENGL 200 or equivalent.

ENGL 372 SHAKESPEARE (3 credit hours) [offered every other year] - provides the student with a broad understanding of one of the world's most revered authors through the study of selected poems and plays. Prerequisite: ENGL 200 or equivalent.

ENGL 390 METHODS OF TEACHING ENGLISH IN THE SECONDARY SCHOOL (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - allows students preparing to teach at the secondary (6-12) level to develop methods and techniques of teaching English, such as questioning and listening skills, lecture and small group techniques, use of materials, and assessment procedures. Professional growth will also be discussed. Students will demonstrate an understanding of the various specific skills needed for teaching grammar, composition, and literature. The course requires an in-class presentation and video taping for self-observation and evaluation. (In addition, 55 clock hours of clinical experience are required.) Prerequisites: EDUC 210, EDUC 220 and EDUC 391.

ENGL 400 CRITICAL THEORY (3 credit hours) [offered every other year] - treats the theory and practice of major types of literary criticism, both historical and contemporary. Prerequisite: ENGL 200 or equivalent.

ENGL 492 GENRE (3 credit hours) [offered every other year] - treats the analysis of literary works in the context of critical problems associated with the study of a selected genre or sub-genre (for example, the novel, the short story, film, or the picaresque novel, the epic poem, etc.) Prerequisite: ENGL 200 or equivalent.

ENGL 493 AUTHOR SEMINAR (3 credit hours) [offered every other year] - provides students with the opportunity to study one or two major authors, their significant works, and relevant criticism. Prerequisite: ENGL 200 or equivalent.

ENGL 494 TOPICS IN ENGLISH (1-6 credit hours) [offered every other year] - is a title given to a course which covers specific themes, practices, and subject content not currently
offered in the curriculum. This course is directed primarily to student majoring in the subject area and could be used to complete major requirements. The course will provide an in-depth study of a specific topic. Prerequisite: ENGL 200 or equivalent.

ENGL 495 DIRECTED STUDY (1-3 credit hours) [offered when there is sufficient student demand and faculty members are available]

ENGL 496 INDEPENDENT STUDY (1-3 credit hours) [offered when there is sufficient student demand and faculty members are available]

ENGL 497 SENIOR THESIS (1-3 credit hours) [offered every semester] - involves extended research on a project of original work or work previously completed for another course. Supervised as a tutorial by a member of the full-time faculty, the completed thesis is presented to the Department in both oral and written form during the final year of study. The thesis is required of all senior English and English Language Arts majors. Prerequisite: senior standing.

ENGL 498 WRITING INTERNSHIP (1-6 credit hours) [offered when there is sufficient student demand and faculty members are available] - is a supervised, practical experience involving writing in the workplace for advanced students. Arrangements are made on an individual basis. Prerequisite: must meet internship guidelines.

ENVIRONMENTAL SCIENCE (ENVS)

ENVS 105 ENVIRONMENT AND HUMANITY (4 credit hours) [course is offered every other year] - is a lecture and lab course that introduces the non-science major, through a problem-solving process, to the study of environmental science. The basic ecological processes are studied from an ecosystem perspective with an emphasis on the resources provided by the natural world. The relationship between humans and the environment is investigated by studying the effects of people and population size on the energy and resource consumption and waste production. The ecology and basic science that are involved in many environmental concerns will be investigated through experiment, data collection, and analysis. The use and limits of science for making environmental decisions is emphasized by the problem-solving component of the course. (IAI Course # L1 906, P1 908L)

ENVS 120 EARTH SCIENCE (4 credit hours) [offered every fall] - is an introduction to basic earth science concepts and methodology including geology, meteorology, and physical geography. Laboratory includes field and computer experience. Three lecture periods and one two-hour laboratory meet per week. (IAI Course # P1 905L)

ENVS 194 TOPICS (1-4 credit hours) [offered when there is sufficient student demand and faculty members are available] is a title given to a course which covers broad themes, practices, and subject content not currently offered in the curriculum. This course is directed primarily at non-majors and may be used for general education where approved. Generally does not have prerequisites.

ENVS 210 ENVIRONMENTAL SCIENCE AND SOCIAL IMPLICATIONS (3 credit hours) - focuses on environmental issues dealing with the complexities generated from the impact of science and technology on our society. The course will use the Franciscan perspective to examine the relationship between humans and the environment and will include economic, political, philosophical, ethical, and spiritual dimensions. The course will also prepare students to employ proper scientific language in order to communicate their ideas coherently and accurately. This on line course is restricted to Management (BS), BSN-Fast Track, Health Care Leadership, and Organizational Leadership.

ENVS 300 ENVIRONMENTAL ISSUES (3 credit hours) [offered every other year] - is an
issue-oriented course in which teams of students address local environmental issues with a multi-disciplinary approach. The problem will be thoroughly defined from many perspectives and potential solutions developed and presented. Prerequisites: BIOL 361 or ENVS 105 and a political science course.

ENVS 400 SENIOR INQUIRY (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - provides an opportunity for students to gain experience working with professional environmental scientists and to further develop independent problem solving skills. Options include internship, original research or preparation of an environmental grant proposal. Prerequisite: ENVS 300.

**FINANCE (FINC)**

FINC 242 PRINCIPLES OF FINANCE (3 credit hours) [offered every semester] - introduces the basic concepts of finance with emphasis on evaluating a firm’s wealth as measured by an increase in stock value. Attention is given to financial statement analysis, risk and return, cost of capital and capital budgeting. Prerequisite: ACCT 126, ECON 102.

FINC 245 FINANCIAL MARKETS (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - offers an analysis of both capital and financial in-termediary markets highlighting the in-teraction of both in maintaining economic stability. Prerequisite: FINC 242.

FINC 340 PRINCIPLES OF INSURANCE (3 credit hours) [offered every other year] - introduces risk-management techniques in the areas of life, health, property, and liability contingencies. Prere-quisite: FINC 242.

FINC 342 FINANCIAL CONCEPTS AND APPLICATIONS (3 credit hours) [offered every spring] - examines key financial concepts in analyzing the financial health of a firm, how financial statements relate to each other and how they help managers address the firm’s operations. Extensive use of spreadsheet software will also be utilized. Prerequisite: ACCT 126 For Management (BS) on line students only.

FINC 345 INVESTMENTS (3 credit hours) [offered every fall] - offers a survey of investment planning, concepts and an overview of the investment process. Special attention is given to asset allocation techniques, life cycle investing and portfolio theory. Prerequisite: FINC 242, COMP 101, and MATH 175.

FINC 353 REAL ESTATE STRATEGIES (3 credit hours) [offered every spring] - examines the ownership forms, debt instruments, and financial intermediaries concerned with financing and evaluating real estate investments. Prerequisite: FINC 242 or FINC 342.

FINC 357 COMMERCIAL BANKING (3 credit hours) [offered every fall] - studies asset/liability management of commercial banks and strategies used to improve the overall financial performance of commercial banks. Prerequisite: ECON 101, FINC 242, and COMP 101.

FINC 358 CAPITAL BUDGETING (3 credit hours) [offered every spring] - offers an analysis of financial decisions invol-ving investment in capital assets and the selection of long term funds. Prerequisite: FINC 242.

FINC 359 INTERNATIONAL FINANCE (3 credit hours) [offered every spring] - discusses financial management of multina-tional corporations with emphasis on the functioning of international monetary systems, currency risk exposures and multinational capital budgeting. Prerequisite: FINC 242 and FINC 357.

FINC 374 FINANCIAL AND BUSINESS MODELING WITH EXCEL (3 credit hours)
[offered every other year] - builds upon basic Excel analysis skill. The course exposes students to the most effective ways to build analytical models to help managers become more efficient and productive. It builds on understanding the capabilities of Excel and how those can be used to provide financial and business analysis. Student will construct statistical, forecasting, optimization, and financial analysis models using a “hands-on approach while developing spreadsheet models from scratch. Prerequisites: COMP 101 and FINC 242.

FINC 430 ADVANCED CORPORATE FINANCE (3 credit hours) [offered every fall] - examines related advanced topics in finance such as long term financing, working capital management and corporate restructuring. Prerequisite: FINC 358.

FINC 494 SELECTED FINANCE TOPICS (1-3 credit hours) [offered when there is sufficient student demand and faculty members are available] - courses not specifically listed in the catalog may be taught under this title. Prerequisites may be required, depending upon the topic.

FINC 496 INDEPENDENT STUDY (1-3 credit hours) [offered when there is sufficient student demand and faculty members are available] - allows students to select their own topic of investigation and determine their own way of pursuing and reporting work. A faculty member advisor serves as a resource person. Students provide goals, materials, and criteria for evaluation. Prerequisite: approval of Dean.

FINC 498 FINANCE INTERNSHIP (1-15 credit hours) [offered every semester] - provides a supervised, practical experience for an extended period of time for advanced students through the business department. Prerequisite: must meet internship guidelines.

FOREIGN LANGUAGE (FORL)

FORL 101 BASIC SPANISH I (3 credit hours) [offered every fall] - is an audio-lingual presentation of elementary Spanish grammar and vocabulary.

FORL 102 BASIC SPANISH II (3 credit hours) [offered every spring] - is a continuation of FORL 101. Prerequisite: FORL 101 or equivalent.

FORL 111 BASIC FRENCH I (3 credit hours) [offered when there is sufficient student demand and faculty are available] - is an introduction to the sounds, structures and dynamics of the French language. The student is expected to acquire a basic vocabulary, a command of the most common indicative verb patterns, and a sound familiarity with the notions of gender, tense, and word-order.

FORL 112 BASIC FRENCH II (3 credit hours) [offered when there is sufficient student demand and faculty are available] - is a continuation of FORL 111. This course aims at enlarging the students’ vocabulary and command of verbal structures. Idiomatic expressions are introduced along with cultural and historical material. Class work involves pattern drills, simple conversations on personal and current topics. Prerequisite: FORL 111 or equivalent.

FORL 194 TOPICS (1-4 credit hours) [offered when there is sufficient student demand and faculty are available] is a title given to a course which covers broad themes, practices, and subject content not currently offered in the curriculum. This course is directed primarily at non-majors and may be used for general education where approved. Generally does not have prerequisites.

FORL 201 INTERMEDIATE SPANISH I (3 credit hours) [offered every fall] - gives an intensive grammar review along with further development of the oral and written practices through the use of selected readings. Prerequisite: FORL 102 or equivalent.

FORL 202 INTERMEDIATE SPANISH II (3 credit hours) [offered every spring] -
provides a continuation of FORL 201. Prerequisite: FORL 201 or equivalent.

FORL 210 SPANISH CONVERSATION, READING, AND COMPOSITION I (3 credit hours) [offered when there is sufficient student demand and faculty are available] - give practice in the use of everyday Spanish; dictation, composition on ordinary themes, translation from English, and drill in practical conversation. Conducted in Spanish. Prerequisite: FORL 201 or equivalent.

FORL 211 SPANISH CONVERSATION, READING, AND COMPOSITION II (3 credit hours) [offered when there is sufficient student demand and faculty are available] - is a continuation of FORL 201, with emphasis on reading and writing along with audio-lingual skills. Conducted in Spanish.

FORL 221 INTERMEDIATE FRENCH I: READING AND COMPOSITION (3 credit hours) [offered when there is sufficient student demand and faculty are available] - emphasizes reading and writing and continues development of audio-lingual skills. Prerequisite: FORL 111 or permission.

FORL 222 INTERMEDIATE FRENCH II: READING AND COMPOSITION (3 credit hours) [offered when there is sufficient student demand and faculty are available] - continues work begun in Intermediate French I, including advanced conversational skills. Prerequisite: FORL 220 or permission.

FORL 240 SPANISH SHORT STORIES (3 credit hours) [offered when there is sufficient student demand and faculty are available] - is especially designed to introduce the student to literature through the reading of short stories of Spanish and Latin American writers. Conducted in Spanish. Prerequisite: FORL 201 or equivalent.

FORL 294 TOPICS IN LITERATURE (1-4 credit hours) [offered when there is sufficient student demand and faculty are available] - is a title given to a course which covers broad themes, practices, and subject content not currently offered in the curriculum. This course is directed primarily at non-majors and may be used for general education where approved. Prerequisite: FORL 210 or consent of instructor.

FORL 301 SPANISH CIVILIZATION AND CULTURE (3 credit hours) [offered when there is sufficient student demand and faculty are available] - is a survey study of the history, topography, art, literature, music, and social aspects of Spain. Conducted in Spanish. Prerequisite: FORL 210 or consent of instructor.

FORL 302 LATIN AMERICAN CULTURES (3 credit hours) [offered when there is sufficient student demand and faculty are available] - is a study of the history, topography, art, philosophy, literature, music, and sociological aspects of Mexico and Latin America. Prerequisite: FORL 201 or consent of instructor.

FORL 340 INTRODUCTION TO SPANISH LANGUAGE LITERATURE (3 credit hours) [offered when there is sufficient student demand and faculty are available] - introduces the student to some of the major Hispanic writers from both Spain and Latin America, through a diverse array of reading selections representing the four genres of prose, poetry, drama and the essay. Conducted in Spanish. Prerequisite Spanish 210 or Spanish for Heritage Speakers.

FORL 494 TOPICS IN FOREIGN LANGUAGE (3 credit hours) [offered when there is sufficient student demand and faculty are available] - offers advanced study in special topics in the study of foreign languages. Prerequisite: Three semesters of college level language study or equivalent.
GENERAL EDUCATION (GENS)

These courses are restricted to Health Care Leadership, Nursing Fast-Track (BSN), Management (BS), and Organizational Leadership.

These courses are offered online each semester. See the projection sheets for program schedule.

GENS 201 RESEARCH AND DECISION MAKING (3 credit hours) - is designed to engage students in methods of research useful in decision making. It will prepare students to be informed consumers of research. It will prepare students in professional leadership positions to understand, analyze, and use information to make sound judgments. This on line course is restricted to Management (BS), Health Care Leadership, and Organizational Leadership and BSN Fast-Track students.

GENS 220 LITERATURE AND ART (3 credit hours) - offers the student the opportunity to explore and study related themes in literature and the arts. The primary emphasis may be on literary, dramatic, or visual art forms, but the course will include some treatment of each. Students will be asked to respond and reflect, both affectively and intellectually, analyze (the works covered) and synthesize (their own ideas about the works), and write out their responses in cogent, effective prose. Writing intensive course; research paper required. This on line course is restricted to Management (BS), Health Care Leadership, and Organizational Leadership and BSN Fast-Track students.

GEOGRAPHY (GEOG) COURSES

GEOG 111 WORLD REGIONAL GEOGRAPHY (3 credit hours) [offered every semester] - is a geographic study of the world’s major regions, with an emphasis on multicultural and global issues. This course examines the complex interrelationships between human beings and their environment. Students develop an awareness of many diverse cultures of the world and the interdependence of diverse national and international economic markets, issues, and political groups.

HISTORY (HIST)

HIST 111 HISTORY OF WORLD CIVILIZATION TO 1500 (3 credit hours) [offered every semester] - surveys the history of world civilization from its beginnings until approximately 1500 C.E. It spans the globe, covering Asia, Africa, the Middle East, Europe, and the Americas. It covers traditional political, social and intellectual aspects of Western civilization (classical Greece, the Roman Empire, the European Middle Ages and Renaissance), but emphasizes as well the distinctiveness of other cultures and their legacies in the world. (IAI Course # S2 902)

HIST 112 HISTORY OF WORLD CIVILIZATION SINCE 1500 (3 credit hours) [offered every semester] - surveys the history of world civilization from approximately 1500 C.E. to the present. It spans the globe, covering Asia, Africa, the Middle East, Europe, and the Americas. It covers traditional political, social and intellectual aspects of Western civilization (the Reformation, Scientific Revolution, Enlightenment, expansion, modernism and world wars), but emphasizes as well the distinctiveness of other cultures and their legacies in the world. (IAI Course # S2 903)

HIST 121 THE UNITED STATES TO 1865 (3 credit hours) [offered every semester] - surveys American history from pre-contact America, through first European-Indian encounters, the colonial period, the Revolution, society and politics in the early Republic,
westward expansion, the slavery issue, and the Civil War. (IAI Course # S2 900, HST 911)

HIST 122 THE UNITED STATES SINCE 1865 (3 credit hours) [offered every semester] - encompasses Reconstruction, expansion in the West and overseas, industrialization and the labor movement, involvement in two World Wars, the Cold War, the turbulent 1960s, Civil Rights and Vietnam, and politics and culture from the 1970s to the present. (IAI Course # S2 901, HST 912)

HIST 210 FOUNDERS OF THE MODERN WORLD (3 credit hours) - explores the history of civilization through a focus on the lives and ideas of key figures that represent watershed moments in human history. We will study figures such as Cicero, St. Augustine, Charlemagne, St. Francis, Luther, Locke, Darwin, Marx, Gandhi, and others who profoundly shaped our modern world. Course readings will be heavily weighted toward primary sources. This on line course is restricted to Health Care Leadership, Management (BS), and Organizational Leadership and BSN Fast Track students.

HIST 241 HISTORY OF AFRICA (3 credit hours) [offered when there is sufficient student demand and faculty are available] - surveys early African history, examines the colonial period and its legacy; examines contemporary issues in the developing nations of the continent. (IAI Course # S2 906N)

HIST 242 THE MIDDLE EAST: CRUCIBLE OF CONFLICT (3 credit hours) [offered every other year] - surveys briefly the long history of the region from the period surrounding the life of Muhammad to the present, with an emphasis on the political developments since 1900 answering the question why the area seems so prone to conflict. Both Israel and the Arab states are studied, and their relations to one another explored as they emerge into the family of nations.

HIST 243 HISTORY OF SOUTH AFRICA (3 credit hours) [offered when there is sufficient student demand and faculty are available] - surveys the history of South Africa, with emphases on indigenous people, European Colonization, the development of Apartheid, and the “new South Africa.”

HIST 244 HISTORY OF INDIA: LAND OF WONDER (3 credit hours) [offered every other year] - surveys the history of India from ancient times to the present, with particular emphasis on the Mughal period, the British Raj, independence, post-independence, and the philosophy and activity of Gandhi.

HIST 246 HISTORY OF LATIN AMERICA (3 credit hours) [offered every other year] - surveys the history of the region, focusing on indigenous civilizations, European exploration and colonization, independence, and social and political problems and events to the present. (IAI Course # S2 910N)

HIST 294 TOPICS (1-4 credit hours) [offered when there is sufficient student demand and faculty are available] is a title given to a course which covers broad themes, practices, and subject content not currently offered in the curriculum. This course is directed primarily at non-majors and may be used for general education where approved. Generally does not have prerequisites.

HIST 301 HISTORY AND SOCIAL SCIENCES SEMINAR (3 credit hours) [offered every fall] - is a seminar course for sophomore and transfer students which introduces them to the issues and methodologies specific to the disciplines of history and the social sciences. Research and writing are emphasized.

HIST 308 POLITICS AND HISTORY OF EASTERN EUROPE AND RUSSIA (3 credit hours) [offered when there is sufficient student demand and faculty are available] - studies the political development of Eastern Europe and Russia from the formation of the
Soviet Union to contemporary times with an emphasis placed on the Khrushchev, Brezhnev, Gorbachev and Yeltsin eras; Marxist ideology; study of Soviet politics and breakdown of the Soviet Union; current social and economic problems and policies.

HIST 320 COLONIAL AMERICA (3 credit hours) [offered every other year] - studies a wide variety of colonial life, including Native Americans, southerners, slaves, New Englanders, and the French in the Midwest. Emphasizes social and cultural history.

HIST 321 NATIONAL DEVELOPMENT (3 credit hours) [offered every other year] - examines society, politics, culture, and everyday life in the early period of the American nation, from the Revolution to the 1850s. Topics covered include the struggle over the Constitution, the challenges of a republican society, the meaning of Jacksonian democracy, tensions on the early frontier, the experience of slavery, and the growing division between North and South.

HIST 322 CIVIL WAR AND RECONSTRUCTION (3 credit hours) [offered every other year] - considers in depth the causes and progress of the War Between the States and the post-war era of Reconstruction. Particular focus is placed on the experience of African-Americans during and after the war.

HIST 323 EMERGENCE OF MODERN AMERICA (3 credit hours) [offered every other year] - explores America's domestic issues and international involvement from 1877 to 1914. Special attention is given to the experience of ordinary Americans in the dramatic changes wrought by industrialization, urbanization, increased immigration, and Progressive reforms.

HIST 324 THE UNITED STATES: 1914-1945 (3 credit hours) [offered every other year] - discusses 1914 to 1945 American society that was transformed through the consumer revolution of the 1920's, the trauma of the Depression, increased government involvement with the New Deal, and the experience of two World Wars. This course examines in depth the issues and problems raised in these changes.

HIST 325 THE UNITED STATES 1945 TO PRESENT (3 credit hours) [offered every other year] - examines American society, culture, and politics from the end of World War II to the present. Topics covered include life in the 1950s, the war in Vietnam at home and abroad, the civil rights movement, the women's movement, the counterculture of the 1960s, the new conservatism of the 1970s and 1980s, and current issues in the 2000s.

HIST 326 THE UNITED STATES IN WORLD AFFAIRS (3 credit hours) [offered every year] - studies the content of United States' foreign policy since World War II; containment and communism, the Cold War, détente, impact of Vietnam; contemporary relations with Russia and Eastern Europe, China, the Western alliance and the developing countries; how American foreign policy is made; analysis of arms control, warfare, military technology and deterrence; economic policies, and contemporary issues confronting U.S. foreign policy.

HIST 327 MEDIEVAL EUROPE (3 credit hours) [offered every other year] - studies the origins and rise of Christian Civilization in Western and Central Europe in the centuries between the disintegration of the Western Roman Empire and the dawning of the Renaissance. Religious and intellectual developments receive as much attention as economic, social, and political affairs.

HIST 328 EARLY MODERN EUROPE (3 credit hours) [offered when there is sufficient student demand and faculty are available] - covers the early modern period (1600-1815) by examining society, politics, philosophy and religion; particularly emphasizing absolutism and constitutional monarchy, the Enlightenment, the French Revolution, and Napoleon.

HIST 329 CONSPIRACY AND INTRIGUE IN THE 18TH CENTURY (3 credit hours) [offered every other year] - covers many of the social, political, and intellectual aspects of
early Modern Europe, but is offered from the perspective of a story about Jacobite conspirators who attempt to pull off a coup against George I of England. The course is built on the extensive archival research of the instructor, so a major focus is helping students understand the nature of historical research so that they can begin their own practice of it.

HIST 349 MODERN EUROPE (3 credit hours) [offered every other year] - covers the later modern period (1815 to present) by examining society, philosophy and religion; particularly emphasizing revolutionary and reactionary movements, the Industrial Revolution, nationalism, World Wars I and II, and the Cold War era.

HIST 351 CLASSICAL CIVILIZATION OF GREECE AND ROME (3 credit hours) [offered every other year] - represents an intensive study of our Greco-Roman heritage in government, education, philosophy, literature, and the fine arts.

HIST 352 RENAISSANCE AND REFORMATION (3 credit hours) [offered every other year] – studies Western Europe in the period from 1350 to 1600. Political, socio-economic, and scientific developments and the fine arts are examined. Emphasis is placed on the men of ideas in the worlds of scholarship and religion.

HIST 356 THE PRESIDENCY (3 credit hours) [offered when there is sufficient student demand and faculty are available] - examines the evolution of office of the Presidency; legislative executive conflict; powers, duties and roles of modern presidents; conceptions of the office; the institutionalized presidency and the process.

HIST 390 METHODS OF TEACHING HISTORY AND THE SOCIAL SCIENCES IN THE SECONDARY SCHOOL (3 credit hours) [offered every fall] - offers students preparing to teach at the secondary (6-12) level, the opportunity to develop methods and techniques of teaching historical concepts. Questioning and attending skills, professional growth, use of materials, and assessment procedures are included. Students will demonstrate an understanding of the various skills needed for history teaching (including map study, vocabulary, graphs, charts, etc.) In-class presentations and videotaping for self-observation and evaluation are required. (40 clock hours of clinical experience required.) Prerequisite: EDUC 210, EDUC 220, and EDUC 391.

HIST 493 INTERNATIONAL EXPERIENCE (1 credit hour) [offered when there is sufficient student demand and faculty are available] - offers students credit for an international experience that has no existing course requirements or university credit. Fulfillment of this credit will involve study of historical and/or Social Science background of the region visited as well as written reflections of the trip.

HIST 494 TOPICS IN HISTORY (3 credit hours) [offered when there is sufficient student demand and faculty are available] - is a title given to a course which covers specific themes, practices, and subject content not currently offered in the curriculum. This course is directed primarily to student majoring in the subject area and could be used to complete major requirements. The course will provide an in-depth study of a specific topic. Prerequisites will vary.

HIST 495 DIRECTED STUDY (1-3 credit hours) [offered when there is sufficient student demand and faculty are available]

HIST 496 INDEPENDENT STUDY (1-3 credit hours) [offered when there is sufficient student demand and faculty are available]

HIST 497 SENIOR THESIS (1-3 credit hours) [offered every semester] - requires a senior thesis that is an extended scholarly paper based on research into both primary and secondary source materials, treated according to the canons of historical methodology. The student and the mentor determine the subject matter.
HIST 498 SENIOR SEMINAR (3 credit hours) [offered every fall] - familiarizes the senior history major with historiographical issues, covers basic methodologies for research and writing history, prepares the student for the senior thesis and/or internship, and provides vocational information.

HIST 499 INTERNSHIP (1-3 credit hours) [offered when there is sufficient student demand and faculty are available] - offers students who meet the requirements an opportunity to apply the theories which they have learned and to test their skills in real world settings. Prerequisite: consent of the instructor.

**DUNS SCOTUS HONORS (HONS)**

HONS 180 DUNS SCOTUS CORE II COLLOQUIUM (0-1 credit hour) [offered every spring] - adds an honors component onto Core II for Duns Scotus fellows. The course may include additional readings, more in-depth discussion, research, journaling and/or other writing assignments, and service-learning.

HONS 190, 290, 390, 490 DUNS SCOTUS HONORS COMPONENT (no credit awarded) [offered when there is sufficient student demand and faculty are available] - are for Duns Scotus fellows and scholars to add honors components to a regular course in order to get credit towards the fulfillment of their requirements in the Duns Scotus program. The 190 and 290 designations are to be used when adding the contract to a lower-division course, and will generally be used for General Education classes. The 390 and 490 designations are for upper-division offerings, and will most often be used for courses in the major. These course numbers may also be used when offering an honors section of a course (the section will receive the regular designation, but the appropriate honors course number will be added to the students' registration and transcript).

HONS 301 FRANCISCAN TRADITIONS SEMINAR (1 credit hour) [offered every fall] - is a seminar course on the philosophy of St. Francis and St. Clare and the intellectual, spiritual, and ministerial tradition they founded. Course topics include the historical and contemporary Franciscan contributions to theology, philosophy, aesthetics, and ministry.

HONS 394 DUNS SCOTUS SEMINAR (1 credit hour) [offered when there is sufficient student demand and faculty are available] - is an interdisciplinary seminar for Duns Scotus fellows and scholars in their junior and senior years. The seminars are designed to allow upper-class students to explore subjects not covered in standard college courses, and topics may be developed collaboratively between faculty and students. Each seminar will also have a service-learning component and will be a forum for students to share their research.

**INDIVIDUALIZED MAJOR (IDMR)**

IDMR 101 INDIVIDUALIZED MAJOR PLAN (1 credit hour) [offered when there is sufficient student demand and faculty are available] - identifies personal and career goals and appropriate areas of study, and submits his or her proposal for a major, including a list of courses, schedule, and rationale. Students will need to establish the intellectual unity of the proposed major and show an understanding of the different disciplinary traditions and methodologies on which it will draw. The student and faculty member sign the proposal and forward it the Arts and Sciences Dean. The proposal is presented to Department Chairs for review and approval. The Department Chairs must approve the proposed Individualized Major before the end of the student’s sophomore year (students must have completed 30 hours to apply but may not have completed more than 60 semester hours). Transfer students who have not completed more than 60 hours must apply for the Individualized Major and
enroll in IDMR101 during their first semester.

IDMR 294 TOPICS IN INTERDISCIPLINARY STUDIES (1-3 credit hours) [offered when there is sufficient student demand and faculty are available] - provides for courses not listed in the catalog to be taught as need arises. Prerequisites may be required.

IDMR 400 INDIVIDUALIZED MAJOR SENIOR PROJECT (3-6 credit hours) [offered when there is sufficient student demand and faculty are available] - is normally taken over two semesters as a 6-credit hour course devoted to a capstone project that culminates and integrates the Individualized Major. Normally, this is a major research paper with an oral presentation. Other options, such as a performance, multi-media product, work of literature, film, or work of art, may be approved if appropriate for a particular plan of study. Normally the project is presented at the Arts and Sciences Senior Scholarship Symposium or at another undergraduate research conference (such as NCUR). The grade for this course is recommended by the advisor and approved by the Individualized Major Committee; in some cases the Arts and Sciences Department Chairs may instead appoint a committee of experts to assist the advisor in assigning the grade.

IDMR 494 TOPICS INTERDISCIPLINARY STUDIES (1-3 credit hours) [offered when there is sufficient student demand and faculty are available] - provides for courses not listed in the catalog to be taught as need arises. Prerequisites may be required.

INTERNATIONAL STUDIES (INTS)

INTS 400 INTERNATIONAL STUDIES CAPSTONE SEMINAR (3 credit hours) [offered when there is sufficient student demand and faculty are available] - is the capstone seminar structured around assigned readings and a research project. Its purpose is to allow students to apply their international experiences and interests to a project that is related to their major and general education. In consultation with the instructor, students will develop a topic that integrates their general education, major and international experiences. During this course, students and advisors will read and discuss texts concerned with cultural identities and globalization.

MANAGEMENT (MGMT)

MGMT 150 MANAGEMENT AND ORGANIZATIONAL BEHAVIOR (3 credit hours) [offered every semester] - provides an overview of management principles; emphasis is given to the functions of management (planning, organizing, staffing, motivating, and controlling). The course analyzes and ties together those things that managers should be aware of in the pursuit of good organizational performance.

MGMT 303 ORGANIZATION DEVELOPMENT (3 credit hours) [offered when there is sufficient student demand and faculty are available] - examines the problems and dynamics of organizational change. Various leadership strategies and resources that may facilitate change and on-going personal development will be studied. The course emphasizes the learning process, OD interventions, consultant skills, reinforcement, monitoring success, and ethical issues. Prerequisite: MGMT 150.

MGMT 350 CORPORATE COMMUNICATIONS (3 credit hours) [offered every fall] - incorporates the fundamental skills of reading, writing, speaking, and listening into realistic business situations. Topics covered are writing business letters and memos, forms of business communication, barriers to effective communication, methods of communicating face to face, how to write a business report, and how to prepare a resume and a letter of application.
Prerequisites: ENGL 112 and MGMT 150.

MGMT 351 MANAGERIAL COMMUNICATION (3 credit hours) [offered every year] - examines skills central to effective managerial communication. Interpersonal skills development is emphasized focusing on active listening skills and the principles of supportive communication. Prerequisite: MGMT 150 and ACAF 102, or ENGL 112, ENG 210 or equivalent.

MGMT 360 HUMAN RESOURCE MANAGEMENT (3 credit hours) [offered every spring] - introduces the foundations and challenges of modern personnel management in dealing with human resources. Some of the topics covered are labor relations, employee motivation, compensation, development and evaluation, and job preparation and selection. Prerequisite: MGMT 150.

MGMT 366 BUSINESS, SOCIETY, AND ENVIRONMENT (3 credit hours) [offered every spring] - investigates the interrelationship between business organizations, local community, and our socio-economic system. This course studies the effects of government, labor unions, and political, religious, and business organizations on executive decision making. Major emphasis is placed on the environmental factors conducive to organizational change. Prerequisite: MGMT 150.

MGMT 367 ENTREPRENEURSHIP (3 credit hours) [offered when there is sufficient student demand and faculty are available] - applies management concepts to small business with special emphasis on problems of small business. Topics covered will be all the varied activities necessary in planning, organizing, directing, and controlling a small business operation. Prerequisite: MGMT 150.

MGMT 371 SERVICE MANAGEMENT (3 credit hours) [offered every year] - examines the theories and strategies of service management. The emphasis is on the development of a service system and the formulation of service goals. Excellence in customer service approaches that are used by the Fortune 500 companies are explored. Prerequisite: MGMT 150. (BS on line students only)

MGMT 411 TRANSPORTATION MANAGEMENT (3 credit hours) [offered every year] - introduces the concepts of logistics and supply chain management is stressed. Emphasis will be placed on analyzing the interrelationships of logistics activities in designing a successful logistics strategy. Students will study fundamental logistics management concepts and how they are woven into a refined system concerned with the move/store supply chain functions of logistics. Prerequisite: MGMT 150.
provides a broad survey of transportation concepts, methods, problems, and strategies. Emphasis will be placed on the domestic (US) motor carrier system. Topics include: modes of transportation, logistics and freight pricing, the relationship of inventory to logistics decisions, and the impact of security on logistics. Analysis and discussion will be presented from various perspectives, including the motor carrier, the shipper, and third party service providers. Prerequisite: MGMT 150.

MGMT 412 GLOBAL LOGISTICS MANAGEMENT (3 credit hours) [offered every year] - focuses on how inventory and information are moved in a global economy. A primary objective of this course is to examine how international logistics decisions are made which have an impact on functional areas of an organization trying to achieve efficiency and effectiveness. Discussions will consist of export-import procedures, multinational logistics strategy, international payment processes, review and selection of transportation modes, and risk management will be reviewed. Prerequisite: MGMT 150.

MGMT 494 TOPICS IN MANAGEMENT (1-3 credit hours) [offered when there is sufficient student demand and faculty are available] - courses not specifically listed in the catalog may be taught under this title. Prerequisites may be required, depending upon the topic.

MGMT 496 INDEPENDENT STUDY (1-3 credit hours) [offered when there is sufficient student demand and faculty are available] - allows students to select their own topic of investigation and determine their own way of pursuing and reporting work. A faculty advisor serves as a resource person. Students provide goals, materials, and criteria for evaluation. Prerequisite: approval of Dean.

MGMT 497 ASSIGNED RESEARCH (1-3 credit hours) [offered when there is sufficient student demand and faculty are available] - offers an in-depth exploration of selected problems in the student’s major area; designed for each student to fulfill individual needs and interests; reports embodying the results of conceptual exercises, experimental evidence, literature reviews, and field investigation required. Prerequisite: approval of Dean.

MGMT 498 MANAGEMENT INTERNSHIP (1-15 credit hours) [offered every semester] - provides a supervised, practical experience for an extended period of time for advanced students through the business department. Prerequisite: must meet internship guidelines.

MARKETING (MKTG)

MKTG 175 PRINCIPLES OF MARKETING (3 credit hours) [offered every semester] - introduces students to the study of marketing as a process of planning and executing product development, pricing, promotion and distribution of ideas, goods and services to accomplish organized objectives. Some of the topics covered are the marketing process, marketing research, consumer behavior, channels of distribution, industrial marketing, pricing, promotion, and international marketing.

MKTG 275 ADVERTISING AND PROMOTION (3 credit hours) [offered every fall] - helps students develop an understanding of the principles, processes, and methods employed in advertising for both business and non-profit organizations. Discussion will involve understanding the consumer behavior of the target market, developing advertising institutions, budgeting for advertising, creating the message and media strategy. Prerequisite: MKTG 175.

MKTG 371 SERVICES MARKETING (3 credit hours) [offered every spring] - is designed to provide students with an overview of the field of service marketing. Modules will cover the nature of the service industry, issues of expectations and satisfaction in creating value,
developing new services, and pricing and distribution. There will be a strong emphasis on developing customer satisfaction and improving customer retention. Ethical dilemmas will be discussed. Prerequisite: MKTG 175.

MKTG 372 INTERNET MARKETING and e-COMMERCE (3 credit hours) [offered every spring] – is designed to provide students with an overview of Internet marketing strategy with an emphasis on developing the marketing mix strategies within that context. The course will show how the Internet and other technologies have moved firms to consider on-line branding as a co-equal to traditional off-line branding strategies. Ethical issues will be emphasized throughout the course. Prerequisite: MKTG 175.

MKTG 373 NONPROFIT MARKETING (3 credit hours) [course offered every other year] – is designed to provide students with an overview of how the basic marketing function can apply to nonprofit organizations. Modules will cover service marketing, positioning the organization, segmentation analysis, consumer behavior strategic and marketing planning, branding, marketing and advertising research, fund raising, interpersonal and organizational communication strategies, recruitment and motivation of volunteers, and advertising and public relations campaign planning. A strong emphasis will be placed on the public relations function. Ethical decision platforms for decision making will be reviewed. Prerequisite: MKTG 175.

MKTG 375 MARKETING MANAGEMENT (3 credit hours) [offered every spring] - studies how companies identify customer needs and influence customers to buy the firm's products or services. Topics covered include identifying marketing opportunities, developing marketing plans and implementing and controlling marketing strategies. Prerequisite: MKTG 175 and junior-senior standing.

MKTG 376 CONSUMER BEHAVIOR (3 credit hours) [offered every fall] - analyzes the individual's buying decisions in light of the effects of environmental, social and psychological factors. Consumer motivation and behavior are discussed in relation to social class, reference groups, demographics, psychographics, and exposure to the various types of information sources. Prerequisite: MKTG 175.

MKTG 382 RETAIL MANAGEMENT (3 credit hours) [offered every other year] - analyzes the nature of retailing encompassing organizational structure, merchandising practices, promotional activities, store planning control and computerized checkout. Prerequisite: MKTG 175.

MKTG 383 PERSONAL SELLING (3 credit hours) [offered every other year] - explores the fundamentals of selling. Topics include planning the sales presentation, how to make a sale, ethics in selling, how to make a cold sales call, and the sales person's role in the economy. Prerequisite: MKTG 175.

MKTG 395 INTERNATIONAL MARKETING (3 credit hours) [offered every spring] - emphasizes multi-national marketing and the activities of multinational corporations. Time is spent discussing the environments of international marketing, as well as the formulation of a multi-national marketing program. Prerequisite: MKTG 175.

MKTG 494 TOPICS IN MARKETING (1-3 credit hours) [offered when there is sufficient student demand and faculty are available] – courses not specifically listed in the catalog may be taught under this title. Prerequisites may be required, depending upon the topic.

MKTG 496 INDEPENDENT STUDY (1-3 credit hours) [offered when there is sufficient student demand and faculty are available] – allows students to select their own topic of investigation and determine their own way of pursuing and reporting work. A faculty advisor
serves as a resource person. Students provide goals, materials, and criteria for evaluation. Prerequisite: approval of Dean.

MKTG 498 MARKETING INTERNSHIP (1-15 credit hours) [offered every semester] - provides a supervised, practical experience for an extended period of time for advanced students through the business department. Prerequisite: must meet internship guidelines.

MASS COMMUNICATION (MCOM)

MCOM 101 CONCEPTS OF COMMUNICATION (3 credit hours) [offered every spring] - provides a general introduction to interpersonal, small group, organizational and cultural communication theories, and emphasizing analysis of communication behavior in variety of settings.

MCOM 103 INTRODUCTION TO MASS COMMUNICATION (3 credit hours) [offered every fall] - introduces the MCOM major to fundamentals of human communication and emphasizes the development and function of current mass communication technologies (print, film, radio, TV and web) and their forebears. Focus on socio-cultural, aesthetic, economic, legal and political contexts and effects of mass media systems and content.

MCOM 122 BASIC PHOTOGRAPHY (3 credit hours) [offered every semester] - an introduction to the principles and techniques of photojournalism for use in print, broadcast and other journalistic mass media. The student will learn to use a traditional, film based adjustable camera, basic chemical darkroom techniques, film selection, and implement photographic composition. (IAI Course # MC 921)

MCOM 135 BROADCAST ANNOUNCING (3 credit hours) [offered when there is sufficient student demand and faculty are available] - introduction to radio and television communication principles and practical announcing techniques. Laboratory experiences are designed to cultivate professional announcing skills and to lead to the development of an effective on-air personality. Applicable to audio, video and web content production.

MCOM 142 SPEECH COMMUNICATION (3 credit hours) [offered once a year] - examines the basic theory and practice at the heart of public speaking. Draws upon both ancient and modern perspectives, from one of the original components of Western liberal arts to modern theories of persuasion, in order to reduce speech apprehension and provide practice in the research, writing, and delivery of speeches to inform, persuade, and entertain. (IAI Course # C2 900)

MCOM 201 PRINCIPLES OF PUBLIC RELATIONS (3 credit hours) [offered every spring] - introduces essential concepts and techniques, including origins and evolution of public relations, functions of public relations in and out of the organization, opinion formation and change, maintenance of organizational image and culture including writing news releases, planning and executing a public relations campaign, and event planning. Prerequisite: MCOM 213.

MCOM 211 WRITING AND REPORTING FOR THE ELECTRONIC MEDIA (3 credit hours) [offered when there is sufficient student demand and faculty are available] - deals with the unique problems and skills involved in handling sources of information and writing news, advertising and editorial copy for broadcast radio, television and the Internet. Prerequisite: ENGL 111 and ACAF 102 (or ENGL 112). (IAI Course # MC 917)

MCOM 213 WRITING ACROSS THE MEDIA (3 credit hours) [offered every semester] - Survey of the fundamentals of writing for the print and electronic media (particularly newspapers and radio) and public relations. Analyze professional writing and current trends in
MCOM 214 WRITING ACROSS THE MEDIA II (3 credit hours) [offered every spring] – Survey of the fundamentals of writing for the print and electronic media (particularly magazines, television, and the Internet) and advertising. Analyze professional writing and current trends in these media. Writing-intensive. Prerequisite: ENGL 111, ACAF 102 (or ENGL 112), MCOM 213.

MCOM 222 DIGITAL PHOTOGRAPHY (3 credit hours) [offered every spring] - offers an opportunity to study and practice film less photography using digital tools. The practice and possibilities of digital still and motion photography cameras will be presented as well as the history of photojournalism. Students will manipulate the resulting digital imagery in image editing package such as Adobe PhotoShop. Digital color models and theory will also be covered. (Mac platform) Prerequisite: MCOM 122.

MCOM 235 INTRODUCTION TO RADIO (3 credit hours) [offered every year] - teaches students the fundamentals of radio broadcasting. Writing, announcing, split-second timing, production of commercials, public service programs, promotional announcements, and equipment operation are all covered. Students will perform weekly on-air shifts on WCSF-FM. In addition, station formats, programming, basic broadcast law, and current topics are covered. (IAI Course # MC 915, MC 918)

MCOM 236 AUDIO PRODUCTION (3 credit hours) [offered every spring] - examines station operation within the broadcast day and offers integrated practice in on-the-air broadcasting functions: announcing, writing, and program building, along with an in-depth study of station management, including duties of persons involved in programming, sales, advertising, public relations, continuity, public affairs, and music. Prerequisite: MCOM 235.

MCOM 237 INTRODUCTION TO VIDEO PRODUCTION (3 credit hours) [offered every fall] - introduces the student to multi camera production. Includes terminology, conceptualization, basic script writing, audio/video operations, and lighting in a studio setting. Emphasizes aesthetic and technical aspects of video production. (IAI Course # MC 916)

MCOM 239 VIDEO PRODUCTION: STUDIO and FIELD (3 credit hours) [offered every spring] - provides the opportunity for students to produce weekly newscasts and learn to conduct interviews, write copy, and perform in front of the camera. Students will improve their skills in camera operation, audio mixing, and lighting for studio and field settings. Postproduction editing will be emphasized. Prerequisite: MCOM 237.

MCOM 241 SPORTS INFORMATION (3 credit hours) [offered when there is sufficient student demand and faculty are available] - studies techniques for describing sporting events for the print and broadcast media, web, administration of statistics, and resolution of communication problems.

MCOM 251 INTRODUCTION TO GRAPHIC COMMUNICATION (3 credit hours) [offered every semester] - provides an introduction to the theory and practice of 2D print graphics. Basic graphic design principles (proximity, alignment, repetition, contrast) and layout techniques will be explored. Digital tools in desktop publishing and image production will be used to solve typical graphic design problems. (Mac platform)

MCOM 294 TOPICS (1-4) [offered when there is sufficient student demand and faculty are available] is a title given to a course which covers broad themes, practices, and subject content not currently offered in the curriculum. This course is directed primarily at non-majors and may be used for general education where approved. Generally does not have prerequisites.

MCOM 301 PUBLIC RELATIONS CASE STUDIES AND PRACTICES (3 credit hours) [offered every spring] - gathers and analyzes public relations case studies from the mass media. The course is designed to prepare students for a career in public relations.
hours) [offered every other year] - teaches advanced public relations concepts that provide students with experience in writing, research, and practical application of theory. It also analyzes current case studies. Prerequisite: MCOM 213 and 201.

MCOM 303 GENDER and COMMUNICATION SEMINAR (3 credit hours) [offered when there is sufficient student demand and faculty are available] - examines gender as a social creation and its effect on human communication in interpersonal, organizational, rhetorical and media contexts. Examines material and ideological components of gender-as-message with emphasis on the styles men and women exhibit in communication tone, vocabulary, intent and meaning. The causes of these styles and their ramifications will be discussed. Prerequisite: MCOM 103 or consent of the instructor.

MCOM 313 ADVANCED NEWS WRITING (3 credit hours) [offered every other year] - Students write in-depth news stories as well as features and possibly editorials. Students examine the system of beats used in gathering local news, the setup of local government, and sources of information. Students then participate in a local beat. Prerequisite: MCOM 213.

MCOM 315 EDITORIAL AND FEATURE WRITING (3 credit hours) [offered when there is sufficient student demand and faculty are available] - provides the opportunity to read and analyze the best in editorial and feature writing. Students will study literary and journalistic techniques and apply these in a variety of writing projects. Prerequisite: MCOM 213.

MCOM 318 WEB PAGE DESIGN (3 credit hours) [offered every other fall] - beginning practice in the theory and design of effective web pages. Students will combine web editing, graphic design and creative copywriting. Emphasis is placed on similarities and differences for designing pages for print versus the web. Guides the student in developing technical skills to construct a web page based on sensitivity to design principles. Prerequisite: MCOM 251 or consent of the instructor.

MCOM 325 2D ANIMATION (3 credit hours) [offered every spring] - utilizes the techniques used to create and prepare 2D animations for trans-media publication. The bulk of this course combines traditional drawing techniques with animation software as a means of developing animation sequences. Using vector and bitmapped formats students will complete scripts, storyboards, exercises, projects and a final animation presentation. Color, composition, continuity and creativity will be emphasized. Using vector and bitmapped formats; students will complete scripts, storyboards, exercises, projects and a final animation presentation. Color, composition, continuity and creativity will be emphasized. Prerequisite: MCOM 251. (IAI Course # MC 923)

MCOM 330 3D ANIMATION (3 credit hours) [offered every other spring] - teaches the techniques used to create and prepare 3D animations for trans-media publication. The bulk of this course combines 3D modeling techniques and layout of effective animation sequences. Using vector and bitmapped formats; students will complete scripts, storyboards, exercises, projects and a final animation presentation. Color, composition, continuity and creativity will be emphasized.

MCOM 335 WEBSITE DESIGN (3 credit hours) [offered every other spring] - continuing practice in the theory and design of effective web pages in the context of a website—a collection of related web pages. Students will learn about design technology awareness and information architecture. In addition, students will translate copywriting and print graphics to the Web environment. Storyboard, site maps and navigation structures will be discussed and implemented through the use of current web editing software. Prerequisite: MCOM 213 and 318 or consent of the instructor.
MCOM 337 VIDEO EDITING (3 credit hours) [offered every fall] - provides instruction in nonlinear editing. Involves capturing audio/video clips, creating effective shot sequences using still and moving graphics, digital compositing, and titling. Prerequisite: MCOM 237 and 239.

MCOM 338 ELECTRONIC FIELD PRODUCTION (3 credit hours) [offered every fall] - requires students to work as a video production team in the field while learning pre-production planning, researching, writing, announcing, taping and editing techniques. Emphasis includes the development of disciplines controlling vocal and visual mechanics and interpretive performance. Prerequisite: MCOM 237 and 239, or consent of the instructor.

MCOM 351 DIGITAL IMAGING AND ILLUSTRATION (3 credit hours) [offered every other year] - is a continuation of the graphic design problem solving techniques introduced in MCOM 251. Graphic design historical context will be covered and Gestalt theory of visual perception will be practiced. Text, printing and layout production procedures will be emphasized. The student will use digital layout, vector/paint and image editing packages to solve visual communication problems. (Mac platform) Prerequisite: MCOM 251.

MCOM 380 WRITING REVIEWS AND CRITICISM (3 credit hours) [offered when there is sufficient student demand and faculty are available] - provides an opportunity to learn how to produce acceptable reviews or criticisms of artistic and athletic events and performances. Students will write reviews relating to film, television, music, drama, literature, and sports. Prerequisite: MCOM 213.

MCOM 403 MYTH AND MASS COMMUNICATION SEMINAR (3 credit hours) [offered when there is sufficient student demand and faculty are available] - examines mythic structure and function in general, and within specific cultures in particular, to illuminate the intimate connections of the mass communication industry and its programming to myth. Emphasizes depth and variety of theories of myth and practical application to media artifacts, organizations, and processes in each student’s area of concentration and interest. Prerequisite: MCOM 103 and junior status or consent of the instructor.

MCOM 412 RADIO MANAGEMENT (3 credit hours) [offered every semester] - provides a practicum experience for students interested in holding top-level management positions with WCSF-RADIO. It deals with areas such as staffing, personnel management, legal responsibility, as well as overseeing top quality copywriting and broadcasting. Prerequisite: MCOM 235 and 236 or consent of instructor. Repeatable to a maximum of 9 semester hours, 3 hours of which are applicable to the major.

MCOM 413 TV MANAGEMENT (3 credit hours) [offered every semester] - provides a practicum experience for students interested in holding top-level management positions with USF-TV. It deals with areas such as staffing, personnel management, legal responsibility, as well as overseeing top quality copywriting and broadcasting. Prerequisite: MCOM 237 and 238, or consent of instructor. Repeatable to a maximum of 9 semester hours, 3 hours of which are applicable to the major.

MCOM 414 NEWSPAPER MANAGEMENT (3 credit hours) [offered every semester] - provides a practicum experience for students interested in holding top-level management positions on the college newspaper. It deals with such areas as staffing, coordinating departments, personnel management, and legal responsibility, as well as overseeing top quality writing and editing, design, and business management. Prerequisite: MCOM 213 and 313 or consent of instructor. Repeatable to a maximum of 9 semester hours, 3 of which are applicable to the major.
MCOM 415 MEDIA ARTS MANAGEMENT (1 credit hour) [offered every other year] – This course is designed to allow students the opportunity to oversee the day-to-day operations of a graphic design / advertising agency. Therefore, the managers in this class have the primary responsibility for running the USF Design Group and the Encounter online. These managers are assisted by the students enrolled in the Media Arts management course who act as “staff” for the Design Group. Student management will take place under the guidance of a professor as the Group’s general manager. Prerequisite: Junior status or consent of instructor.

MCOM 445 DIGITAL ILLUSTRATION (3 credit hours) [offered when there is sufficient student demand and faculty are available] - advanced practice in the theories and design of effective graphics incorporating computer illustrative techniques. Students will learn to combine traditional commercial illustration practices with electronic tools. Illustration as a commercial endeavor driven by client needs will be emphasized. Guides the student in developing the technical skills to solve graphic design problems requiring extensive drawing components. A working knowledge of Adobe Illustrator and Adobe PhotoShop is required. Prerequisite: MCOM 251, 351 and VART 101, 251.

MCOM 451 GRAPHIC COMMUNICATION SEMINAR (3 credit hours) [offered when there is sufficient student demand and faculty are available] – is an advanced practical studio in graphic design. The student will develop specialized skills concentrating on print graphics, color theory, four-color printing, spot color printing and multi-page publications. Current layout and imaging software will be used to create and develop camera ready comprehensive files. Prerequisite: VART 101; MCOM 251, 222 and 351.

MCOM 460 ETHICS OF MASS COMMUNICATION (3 credit hours) [offered every other year] - explores ethical frameworks for assessing mass communication content and practice. Issues to be covered include objectivity, sensationalism, news management, access and social responsibility. Prerequisite: junior/senior standing.

MCOM 470 LAW and REGULATION OF MASS COMMUNICATION (3 credit hours) [offered every other year] – introduces the student to the key legal issues confronting the media; libel, slander, privacy, freedom of information privilege, obscenity, free press and fair trial, access to the media. It traces Supreme Court cases that are pertinent to each issue. Also included in the course are court structure, organization, and procedure. Prerequisite: junior/senior standing.

MCOM 485 MASS COMMUNICATION PORTFOLIO (3 credit hours) [offered every spring] – is a culminating capstone experience in the Mass Communication major. Students will re-assess progress made and projects produced in still/motion graphics, broadcast, writing, public relations and advertising classes. Each student will produce a professional portfolio from new and existing projects. A portfolio, professional resume, interviewing techniques and job opportunities/internships will be explored. Prerequisites: students should be second semester juniors and have taken a minimum of three studio/production courses in a Mass Communication concentration.

MCOM 490 APPLIED REPORTING (1-6 credit hours) [offered every semester] – requires students to engage in research, interviewing, and writing in a variety of modes: news, feature, editorial, and interpretive. Prerequisite: MCOM 213 or consent of instructor.

MCOM 491 APPLIED AUDIO PRODUCTION (1-6 credit hours) [offered every semester] – requires students to employ techniques of editing, scripting, announcing, mixing, dubbing, and special effects as they relate to continuity and/or programming. Prerequisite: MCOM 235 or consent of instructor.
MCOM 492 APPLIED VIDEO PRODUCTION (1-6 credit hours) [offered every semester] - requires students to be involved in researching, producing, scripting, shooting, and editing video as it relates to continuity and/or programming. Prerequisite: MCOM 237 or consent of instructor.

MCOM 493 APPLIED PUBLIC RELATIONS TECHNIQUES (1-6 credit hours) [offered every semester] - requires students to engage in public relations activities such as research, writing, planning, programming, and evaluation. Prerequisite: MCOM 213 and 201, or consent of the instructor.

MCOM 494 TOPICS IN MASS COMMUNICATION (3 credit hours) [offered when there is sufficient student demand and faculty are available] - is a title given to a course which covers specific themes, practices, and subject content not currently offered in the curriculum. This course is directed primarily to student majoring in the subject area and could be used to complete major requirements. The course will provide an in-depth study of a specific topic. Prerequisites will vary.

MCOM 495 DIRECTED STUDY (1-3 credit hours) [offered every semester]

MCOM 496 INDEPENDENT STUDY (1-3 credit hours) [offered every semester]

MCOM 498 INTERNSHIP (3-15 credit hours) [offered every semester] - Prerequisite: consent of the instructor and 2.5 or higher GPA.

MATH 099 INTERMEDIATE ALGEBRA (3 credit hours) [offered every semester] - covers polynomials, exponents, linear and quadratic equations and inequalities relations, functions, lines, graphs, and rational functions. Prerequisite: One year of high school algebra and one year of high school geometry. Note: MATH 099 Intermediate Algebra may not be taken for graduation credit.

MATH 102 CONTEMPORARY MATHEMATICAL THINKING (3 credit hours) [offered every other year] - a course for the non-major focusing on mathematical reasoning through the exploration of important mathematical concepts. Topics will be chosen from the following: geometry; number theory; logic/set theory; probability and statistics; graph theory; linear programming; game/decision theory; mathematics of finance. Prerequisites: H.S. Geometry and C or better in MATH 099 or equivalent. (IAI Course # M1 904)

MATH 105 INTRODUCTION TO STATISTICS (3 credit hours) [offered every semester] - surveys methods for describing data numerically and graphically. Explores relationships between quantitative variables using correlation and least-squares regression. Presents an overview of the data-collection process. Covers basic probability theory needed for understanding statistical inference. Inferential techniques such as interval estimation and tests of hypotheses will be explored. Prerequisites: H.S. Geometry and C or better in MATH 099 or equivalent. (IAI Course # M1 902)

MATH 108 MATH FOR TEACHERS I (3 credit hours) [offered every semester] - is intended for the elementary education major. It presents the mathematical concepts underlying the basic operations for whole numbers, integers, rational numbers, and real numbers. The course includes a study of numeration systems, bases, basic number theory, functions, measurement and geometry. Perquisites: H.S. Geometry and C or better in MATH 099. (IAI Course # M1 903)

MATH 109 MATH FOR TEACHERS II (3 credit hours) [offered every semester] - is a continuation of MATH 108 and is intended for the pre-service elementary teacher. The
course includes a study of probability, introductory statistics, Euclidean geometry and constructions, the geometry of motion, tessellations, measurement, and Cartesian coordinate graphing. Prerequisite: C or better in MATH 108. (IAI Course # M1 903)

MATH 111 COLLEGE ALGEBRA (3 credit hours) [offered every semester] - reviews relations, functions, linear and quadratic equations and logarithms; covers theory of equations, complex numbers, matrix theory, sequences and series, binomial theorem, math induction and conic sections. Prerequisites: H.S. Geometry and C or better in MATH 099.

MATH 121 FINITE MATHEMATICS (3 credit hours) [offered every semester] - reviews matrix algebra and solution of systems of equations using matrices. This course covers other matrix applications, linear programming, set theory, probability, stochastic processes, game theory, and Markov chains emphasizing applications in business and economics. Prerequisites: C or better in MATH 111. (IAI Course # M1 906)

MATH 125 PRE-CALCULUS (5 credit hours) [offered every semester] - is a standard pre-calculus course. Topics include a review of algebra; a study of functions and graphs including polynomials, rational functions, exponential and logarithmic functions; a complete introduction to trigonometry; and systems of equations and inequalities. Prerequisites: H.S. Geometry and C or better in MATH 099.

MATH 170 CALCULUS FOR BUSINESS (4 credit hours) [offered every semester] - covers limit and continuity theorems; derivatives and integrals of algebraic, logarithmic, and exponential functions. Special attention is given to business applications. Prerequisite: C or better in MATH 111. (IAI Course # M1 900-B)

MATH 175 STATISTICS (4 credit hours) [offered every semester] - surveys descriptive measures of central tendency, dispersion, and association, along with graphical techniques for describing data. Generation of data through surveys and experiments is discussed. The inference techniques of interval estimation and tests of hypotheses will be discussed in detail. The Chi-square test, analysis of variance, and inference for regression will also be addressed. Prerequisite: C or better in MATH 111. (IAI Course # M1 902, BUS 901)

MATH 181 CALCULUS WITH ANALYTIC GEOMETRY I (5 credit hours) [offered every semester] - addresses functions, limits, continuity, derivatives, integrals, integration techniques, trigonometric and hyperbolic functions and applications. Prerequisite: C or better in MATH 125 or equivalent. (IAI Course # EGR 901, M1 900-1, MTH 901)

MATH 182 CALCULUS WITH ANALYTIC GEOMETRY II (5 credit hours) [offered every semester] - is a continuation of MATH 181, and further addresses differentiation and integration techniques, polar coordinates, improper integrals, L' Hopital's Rule and power series. Prerequisite: MATH 181. (IAI Course # EGR 902, M1 900-2, MTH 902)

MATH 271 CALCULUS III (3 credit hours) [offered every fall] - covers calculus of functions of several variables; potential functions; maxima and minima; line integrals; multiple integrals; Green's and Stokes' Theorems; Taylor series of several variables. Prerequisite: MATH 182. (IAI Course # EGR 903, M1 900-3, MTH 903)

MATH 275 LINEAR ALGEBRA (3 credit hours) [offered every other year] - covers vectors, matrix operations, determinants, linear functions, vector spaces and subspaces, basis and dimension, linear transformations, inner product spaces, and applications. Prerequisite: MATH 271 or concurrent enrollment. (IAI Course # MTH 911)

MATH 280 DIFFERENTIAL EQUATIONS (3 credit hours) [offered every other year] - covers ordinary differential equations of first order, applications, linear differential equations, simultaneous linear differential equations, Laplace Transforms, numerical techniques, and series solution of differential equations. Prerequisite: MATH 271. (IAI Course # EGR 904,
MTH 912

MATH 290 THEORY OF INTEREST (3 credit hours) [offered every other year] - examines the topics of measurement of interest, including accumulated and present value, annuities, yield rates, amortization schedules and sinking funds, and bonds. Prerequisite: MATH 182 or MATH 170.

MATH 294 TOPICS IN MATHEMATICS (1-3 credit hours) [offered when there is sufficient student demand and faculty are available] - provides for the study of selected topics not included in the regular curriculum. It may be repeated for credit if the content changes substantially.

MATH 320 HISTORY OF MATHEMATICS I (3 credit hours) [offered every other year] - surveys the growth and contributions of mathematics to knowledge and learning from ancient times to the mid-17th century. Development of mathematics is traced through study of mathematicians and their ideas. Prerequisites: MATH 181.

MATH 321 HISTORY OF MATHEMATICS II (3 credit hours) [offered every other year] - surveys the growth and contributions of mathematics to knowledge and learning from the mid-17th century to present day. The development of mathematics is traced through study of mathematicians and their ideas. Prerequisite: MATH 181.

MATH 326 DISCRETE MATHEMATICS (3 credit hours) [offered every spring] - begins with the foundations of logic and mathematical reasoning, deductive and inductive proof. The study of discrete structures may include set theory, functions, relations, number theory, matrices, combinatorics, algorithms, recursion, graph theory, trees, Boolean algebra, and computation models. Prerequisite: MATH 181.

MATH 331 MATHEMATICAL STATISTICS I (3 credit hours) [offered every other year] - is a calculus-based coverage of set-theoretic probability, random variables, discrete and continuous probability distributions, mathematical expectation, and multivariate probability distributions. Prerequisite: MATH 271.

MATH 332 MATHEMATICAL STATISTICS II (3 credit hours) [offered every other year] - is a continuation of MATH 331. It covers sampling distributions, the central limit theorem, point and interval estimation, hypothesis testing, and goodness of fit. Nonparametric methods will also be addressed. Prerequisite: MATH 331.

MATH 351 COLLEGE GEOMETRY (3 credit hours) [offered every other year] - covers the foundations of Euclidean geometry based on axioms equivalent to those of Hilbert. The course includes an introduction to non-Euclidean geometries. Prerequisite: MATH 181.

MATH 365 OPERATIONS RESEARCH (3 credit hours) [offered every other year] - presents the quantitative modeling techniques of linear programming, dynamic programming, queuing theory, PERT-CPM, and simulation. Prerequisites: MATH 175 and MATH 182 or MATH 170.

MATH 370 APPLIED REGRESSION ANALYSIS (3 credit hours) [offered every other year] - includes a study of inference, diagnostics, and remedial measures for both simple and multiple linear regression; polynomial regression; model building; single- and two-factor analysis-of-variance; and experimental design. Prerequisite: MATH 175 or MATH 331.

MATH 371 INTRODUCTION TO ANALYSIS (3 credit hours) [offered every other year] - includes a rigorous discussion of real numbers, infinite sets, point set topology, sequences of functions, continuity and Riemann integrals. Prerequisite: MATH 326 or MATH 351.

MATH 372 INTRODUCTION TO COMPLEX VARIABLES (3 credit hours) [offered when there is sufficient student demand and faculty are available] - covers complex numbers
and their geometric representation, sequences and mappings, analytic functions, elementary functions, integration, power series, calculus of residues, and conformal mappings. 
Prerequisite: MATH 271.

MATH 375 ABSTRACT ALGEBRA I (3 credit hours) [offered every other year] - covers binary operations, groups, subgroups, permutations, cyclic groups, cosets, normal subgroups, homomorphisms, and isomorphisms. Prerequisite: MATH 275.

MATH 380 NUMERICAL ANALYSIS (3 credit hours) [offered every other year] - covers computational methods for error estimation, solution of nonlinear equations and systems of linear equations, finite difference calculus, numerical differentiation and integration. 
Prerequisite: MATH 271.

MATH 389 METHODS OF TEACHING MATHEMATICS IN THE MIDDLE SCHOOL (Grades 6-8) (3 credit hours) [offered every spring] - is a pre-service course for prospective teachers of middle school mathematics. The course includes an examination of mathematics curriculum, instructional techniques, the preparation of lessons, motivation techniques, design of homework assignments, preparation of tests, evaluation of student performance, and classroom management in the middle school setting. Students will develop a working knowledge of NCMT Principles and Standards for School Mathematics. 
Prerequisites: MATH 181, EDUC 360, Junior/Senior Standing.

MATH 390 METHODS OF TEACHING MATHEMATICS IN THE SECONDARY SCHOOL (Grades 9-12) (3 credit hours) [offered every fall] - is a pre-service course for prospective teachers of high school mathematics. The course will include an examination of the high school mathematics curriculum, particularly the study of algebra, geometry and mathematics for the non-college bound student, as well as appropriate instructional techniques. The course will also include discussions on the preparation of lessons, motivation techniques, design of homework assignments, preparation of tests, and evaluation of student performance in a high school setting. Classroom diversity, discipline, and management issues as they are relate to instructional planning and assessment will also be covered. 
Prerequisites: Enrollment in Professional Semester I.

MATH 391 JUNIOR SEMINAR (1 credit hour) [offered every spring] – provides an introduction to mathematical research methods, with the express purpose of transitioning the student to the Senior Seminar course the following term. This course will focus on exploring mathematical topics, reading the mathematical literature, and writing about one's understanding of the material. Library and internet source material will be utilized. At completion, the student will have identified a suitable topic for his/her senior paper with an initial outline and bibliography. 
Prerequisite: Junior Mathematics major standing.

MATH 490 SENIOR SEMINAR (2 credit hours) [offered every fall] - offers seniors the opportunity to research and present topics of special interest not previously covered in depth by a mathematics course. Topics may be from analysis, algebra, geometry, history of mathematics, probability and statistics, or applied mathematics. Journal articles will be read and discussed. In addition, Major Portfolios will be assembled and evaluated as a significant portion of the grade awarded. 
Prerequisites: Senior Mathematics major standing.

MATH 494 TOPICS IN MATHEMATICS (1-3 credit hours) [offered when there is sufficient student demand and faculty are available] - is a title given to a course which covers specific themes, practices, and subject content not currently offered in the curriculum. This course is directed primarily to student majoring in the subject area and could be used to complete major requirements. The course will provide an in-depth study of a specific topic. 
Prerequisites will vary.
MATH 495 DIRECTED STUDY (1-3 credit hours) [offered when there is sufficient student demand and faculty are available] Prerequisite: Consent of instructor.
MATH 496 INDEPENDENT STUDY (1-3 credit hours) [offered when there is sufficient student demand and faculty are available] Prerequisite: Consent of instructor.

MEDICAL TECHNOLOGY (MEDT)

MEDT 345 INTRODUCTION TO MEDICAL TECHNOLOGY (3 credit hours) [offered when there is sufficient student demand and faculty are available] - is designed to orient the student to the various laboratory departments in preparation for the medical technology internship. Clinical laboratory automation, registration exams, professional societies, postgraduate training, and job opportunities are also discussed. Prerequisite: BIOL 211.

MEDT 410 CLINICAL CHEMISTRY I (3-5 credit hours) [offered every fall] - addresses the theory and practice of analytical biochemistry as applied to pathologic states, methodology, and instrumentation. Statistics as applied to reagent preparation, results determination, and quality control are also addressed.

MEDT 412 CLINICAL CHEMISTRY II (4-5 credit hours) - addresses the theory and practice of analytical biochemistry as applied to specialized tests for drugs, endocrine function, urine, and body fluids.

MEDT 420 CLINICAL HEMATOLOGY (5 credit hours) [offered every fall] - is the study of the origin, development, morphology, physiology and pathophysiology of the formed elements of the blood and bone marrow. Manual and automated methods of cell counting, differentiation and other special hematological procedures on blood and body fluids used in disease diagnosis are included.

MEDT 430 CLINICAL HEMOSTASIS (1-2 credit hours) [offered every fall] - is the study of the platelet, vascular and coagulation and fibrinolytic systems. Testing procedures and the application of the principles of hemostasis as relates to disease states and therapeutic monitoring are also included.

MEDT 440 CLINICAL IMMUNOHEMATOLOGY (4 credit hours) [offered every spring] - is the study of the red cell antigen-antibody systems, antibody screening and identification, compatibility testing and immunopathologic conditions. Also included are donor requirements and blood component preparation and therapy.

MEDT 450 CLINICAL IMMUNOLOGY (3 credit hours) [offered every fall] - is the study of the principles of the protective and advesive aspects of the cellular and humoral immune responses. Theory and performance of test procedures based on antigen-antibody reactions and clinical significance of test results are included.

MEDT 460 CLINICAL MICROBIOLOGY I (2-5 credit hours) [offered every fall] - addresses the theory and practice of the isolation and identification of pathogenic bacteria and mycobacteria in clinical specimens through cultures, morphology, biochemical and/or serological reactions to their drug susceptibility. The relation of clinical testing to disease states also included.

MEDT 462 CLINICAL MICROBIOLOGY II (3-4 credit hours) [offered every spring] - addresses the theory and practice of the isolation and identification of fungi, parasites, rickettsia and viruses utilizing morphological, cultural, biochemical and serologic methods. The relation of clinical testing to disease states and epidemiology as it applies to microbiology is included.
MEDT 470 SPECIAL TOPICS IN CLINICAL LABORATORY SCIENCE (1 credit hour) [offered every fall] - is an overview of medical ethics, patient approach, the theory and practice of phlebotomy techniques, laboratory safety, applications of laboratory computer systems and independent clinical research and development.

MEDT 480 CLINICAL MANAGEMENT AND EDUCATION (1 credit hour) [offered every fall] - is a basic introduction to the principles and theory of management and education as relates to the clinical laboratory. The special job responsibilities of the clinical laboratory scientist in management and education are addressed.

MEDT 482 CLINICAL MICROSCOPY (2 credit hours) [offered every spring] - addresses the theory of renal function in health and disease, renal function tests including chemical and microscopic examination of urine and other body fluids.

MEDT 484 CLINICAL PARASITOLOGY / MYCOLOGY (1 credit hour) [offered every spring] - addresses general specimen considerations, safety, terminology, epidemiology, classification, morphological characteristics, laboratory protocol and clinical manifestations of the common and rarer yeasts, molds and parasites.

MUSIC (MUSC)

MUSC 101 FUNDAMENTALS OF MUSIC (2 credit hours) [offered every fall] – Acquaints the student with a practical understanding of musical notation, chord and scale structures, intervals, key signatures, and a basic knowledge of the keyboard.

MUSC 105 MUSIC THEORY I (2 credit hours) [offered every spring] - provides the student with basic music theory concepts leading to an understanding of tonal harmony and voice leading. This course features an integrated, historical approach through written work, listening, and analysis. (For music majors; others may enroll with permission of instructor.)

MUSC 106 MUSIC THEORY II (2 credit hours) [offered every fall] – is a continuation of Music Theory I, providing the student with a more in-depth understanding of tonal harmony and voice-leading through written work, listening, and analysis. It features an integrated, historical approach to understanding music theory concept. Prerequisites: MUSC 105 and MUSC 115.

MUSC 115 EAR-TRAINING/SIGHT-SINGING I (1 credit hour) [offered every spring] – provides the student with the first semester of an integrated two year ear-training and sight-singing course. Students gain critical listening and performance skills through dictation, sight-singing, and aural analysis. MUSC 115 is coordinated with MUSC 105 and will parallel the concepts presented there as much as possible. For music majors; others may enroll with permission of instructor.

MUSC 116 EAR-TRAINING/SIGHT-SINGING II (1 credit hour) [offered every fall] – provides the student with the second semester of an integrated two-year ear-training and sight-singing course. Students gain critical listening and performance skills through dictation, sight-singing, and aural analysis. MUSC 116 is coordinated with MUSC 106 and will parallel the concepts there as much as possible. Prerequisites: MUSC 105 and MUSC 106. For music majors; others may enroll with permission of instructor.

MUSC 121 OUR MUSICAL HERITAGE (3 credit hours) [offered every semester] - provides an introduction to music and musical styles. Selected pieces and composers are studied within a historical-cultural context; provides an examination of works from the medieval era through the twentieth century. (IAI Course # F1 900)

MUSC 140 CONCERT/RECITAL ATTENDANCE (no credit awarded) [offered every
semester] - requires music majors to attend a minimum of eight music performances on or off-campus each semester. Students document attendance by submitting a list of performances and printed programs to the faculty coordinator.

MUSC 151 KEYBOARD SKILLS – CLASS PIANO (1 credit hour) [offered every semester] - provides piano lessons in a group setting. Music majors must pass a keyboard proficiency exam by the end of the first semester of their junior year. Majors may test out of this class at any time. The course may be repeated to a maximum of 4 hours.

MUSC 194 TOPICS (1-4 credit hours) [offered when there is sufficient student demand and faculty are available] is a title given to a course which covers broad themes, practices, and subject content not currently offered in the curriculum. This course is directed primarily at non-majors and may be used for general education where approved. Generally does not have prerequisites.

MUSC 205 MUSIC THEORY III (2 credit hours) [offered every spring] – is a continuation of Music Theory II, providing the student with a historical perspective on tonal harmonies and forms through written work, listening, and analysis. It features an integrated, historical approach to understanding music theory concepts. Prerequisites: MUSC 106 and MUSC 116.

MUSC 206 MUSIC THEORY IV (2 credit hours) [offered every fall] – is a continuation of Music Theory III, but focuses primarily on music of the 19th and 20th Centuries through written work, listening, and analysis. It features an integrated, historical approach to understanding music theory concepts. Prerequisites: MUSC 205 and MUSC 215.

MUSC 215 EAR-TRAINING/SIGHT-SINGING III (1 credit hour) [offered every spring] - provides the student with the third semester of an integrated, two-year training and sight-singing course. Students gain critical listening and performance skills through dictation, sight-singing, and aural analysis. MUSC 215 is coordinated with MUSC 205 and will parallel the concepts presented there as much as possible. Prerequisites: MUSC 106 and MUSC 116. For music majors; others may enroll with permission of instructor.

MUSC 216 EAR-TRAINING/SIGHT-SINGING IV (1 credit hour) [offered every fall] - provides the student with the final semester of an integrated two-year ear-training and sight-singing course that culminates in a focus on 20th Century techniques and idioms. Students gain critical listening and performance skills through dictation, sight-singing, and aural analysis of 20th Century styles and literature. MUSC 216 is coordinated with MUSC 205 and will parallel the concepts presented there as much as possible. Prerequisites: MUSC 205 and MUSC 215. For music majors; others may enroll with permission of instructor.

MUSC 222 MUSIC HISTORY I (3 credit hours) [offered every other year] - presents an in-depth study of the music and musical styles of the Medieval (c. 400 A.D.) through Baroque (c. 1750) eras, in a historical-cultural context. Examination of musical scores and listening to recordings is required. Prerequisite: MUSC 121. (IAI Course # F1 901)

MUSC 241 APPLIED PIANO (1-4 credit hours) [offered every semester] - provides private lessons to students in a private studio setting. Master classes are organized for each student during the semester with an informal recital/jury at the end of each semester. May be repeated to a maximum of 10 semester hours. (IAI Course # MUS 909)

MUSC 242 APPLIED VOICE (1-4 credit hours) [offered every semester] - provides private lessons to students in a studio setting. Students are expected to participate in one performance class each semester, and may be invited to sing in the Spring/Winter Recital or for a faculty jury. May be repeated to a maximum of 10 semester hours. (IAI Course # MUS 909)
MUSC 244 APPLIED VIOLIN (1-4 credit hours) [offered every semester] - provides private lessons to students in a private studio setting. Master classes are organized for each student during the semester with an informal recital/jury at the end of each semester. May be repeated to a maximum of 10 semester hours. (IAI Course # MUS 909)

MUSC 245 APPLIED VIOLA (1-4 credit hours) [offered when there is sufficient student demand and faculty members are available] - provides private lessons to students in a private studio setting. Master classes are organized for each student during the semester with an informal recital/jury at the end of each semester. May be repeated to a maximum of 10 semester hours. (IAI Course # MUS 909)

MUSC 246 APPLIED CELLO (1-4 credit hours) [offered when there is sufficient student demand and faculty members are available] - provides private lessons to students in a private studio setting. Master classes are organized for each student during the semester with an informal recital/jury at the end of each semester. May be repeated to a maximum of 10 semester hours. (IAI Course # MUS 909)

MUSC 247 APPLIED BASS (1-4 credit hours) [offered when there is sufficient student demand and faculty members are available] - provides private lessons to students in a private studio setting. Master classes are organized for each student during the semester with an informal recital/jury at the end of each semester. May be repeated to a maximum of 10 semester hours. (IAI Course # MUS 909)

MUSC 248 APPLIED FLUTE (1-4 credit hours) [offered when there is sufficient student demand and faculty members are available] - provides private lessons to students in a private studio setting. Master classes are organized for each student during the semester with an informal recital/jury at the end of each semester. May be repeated to a maximum of 10 semester hours. (IAI Course # MUS 909)

MUSC 249 APPLIED OBOE (1-4 credit hours) [offered when there is sufficient student demand and faculty members are available] - provides private lessons to students in a private studio setting. Master classes are organized for each student during the semester with an informal recital/jury at the end of each semester. May be repeated to a maximum of 10 semester hours. (IAI Course # MUS 909)

MUSC 250 APPLIED CLARINET (1-4 credit hours) [offered when there is sufficient student demand and faculty members are available] - provides private lessons to students in a private studio setting. Master classes are organized for each student during the semester with an informal recital/jury at the end of each semester. May be repeated to a maximum of 10 semester hours. (IAI Course # MUS 909)

MUSC 251 APPLIED SAXOPHONE (1-4 credit hours) [offered when there is sufficient student demand and faculty members are available] - provides private lessons to students in a private studio setting. Master classes are organized for each student during the semester with an informal recital/jury at the end of each semester. May be repeated to a maximum of 10 semester hours. (IAI Course # MUS 909)

MUSC 252 APPLIED BASSOON (1-4 credit hours) [offered when there is sufficient student demand and faculty members are available] - provides private lessons to students in a private studio setting. Master classes are organized for each student during the semester with an informal recital/jury at the end of each semester. May be repeated to a maximum of 10 semester hours. (IAI Course # MUS 909)

MUSC 253 APPLIED TRUMPET (1-4 credit hours) [offered when there is sufficient student demand and faculty members are available] - provides private lessons to students in a private studio setting. Master classes are organized for each student during the semester with
an informal recital/jury at the end of each semester. May be repeated to a maximum of 10 semester hours. (IAI Course # MUS 909)

MUSC 254 APPLIED HORN (1-4 credit hours) [offered when there is sufficient student demand and faculty members are available] - provides private lessons to students in a private studio setting. Master classes are organized for each student during the semester with an informal recital/jury at the end of each semester. May be repeated to a maximum of 10 semester hours. (IAI Course # MUS 909)

MUSC 255 APPLIED TROMBONE (1-4 credit hours) [offered when there is sufficient student demand and faculty members are available] - provides private lessons to students in a private studio setting. Master classes are organized for each student during the semester with an informal recital/jury at the end of each semester. May be repeated to a maximum of 10 semester hours. (IAI Course # MUS 909)

MUSC 256 APPLIED TUBA (1-4 credit hours) [offered when there is sufficient student demand and faculty members are available] - provides private lessons to students in a private studio setting. Master classes are organized for each student during the semester with an informal recital/jury at the end of each semester. May be repeated to a maximum of 10 semester hours. (IAI Course # MUS 909)

MUSC 257 APPLIED PERCUSSION (1-4 credit hours) [offered when there is sufficient student demand and faculty members are available] - provides private lessons to students in a private studio setting. Master classes are organized for each student during the semester with an informal recital/jury at the end of each semester. May be repeated to a maximum of 10 semester hours. (IAI Course # MUS 909)

MUSC 265 DICTION I: LATIN, ITALIAN AND ENGLISH (2 credit hours) [offered every other year] – introduces students to the International Phonetic Alphabet (IPA), and using the IPA, develops skill in pronunciation and articulation of the Italian and English languages for use in vocal and choral literature.

MUSC 271 SCHOLA CANTORUM (1 credit hour) [offered every semester] - performs a variety of choral literature ranging from Gregorian Chant to contemporary works and presents a concert at the end of each semester. This is a select ensemble of 16-20 advanced singers that sings primarily, though not exclusively, a capella choral literature. Audition required for participation. May be repeated to a maximum of 8 semester hours.

MUSC 272 CONCERT CHORALE (1 credit hour) [offered every semester] - provides performance opportunities for all singers, including members of the University faculty and staff and the community. The ensemble sings a wide variety of choral literature. Audition or invitation required for participation. May be repeated to a maximum of 8 semester hours.

MUSC 273 MUSIC THEATRE / OPERA THEATRE (1 credit hour) [offered every year] - provides exposure to all aspects of the production of a play, opera or musical. Productions will vary in style and period each year. Students may participate in a sung or spoken role, as a dancer, or in the chorus, orchestra or crew for credit. Prerequisite: Audition/permission of director.

MUSC 275 JOLIET SYMPHONY ORCHESTRA (JSO) (1 credit hour) [offered every semester] - JSO is an orchestra consisting of students from the University of St. Francis as well as members of the community. The orchestra performs a variety of symphonic literature from various historical eras. Prerequisite: Audition/permission of director. May be repeated to a maximum of 8 semester hours.

MUSC 276 INSTRUMENTAL CHAMBER ENSEMBLE (1 credit hour) [offered when there is sufficient student demand and faculty are available] - focuses on performing chamber
music from various historical eras, utilizing diverse instrument combinations. The group may vary in size from trio or quartet up to a Baroque chamber orchestra and may perform with other ensembles within the University. Prerequisite: Audition/permission of director. May be repeated to a maximum of 8 semester hours.

MUSC 280 INTRODUCTION TO MUSIC EDUCATION (2 credit hours) [offered every spring] - provides historical, philosophical, and practical foundations for the teaching of music. This is a beginning course to prepare students for a career in Music Education.

MUSC 311 COUNTERPOINT (3 credit hours) [offered when there is sufficient student demand and faculty are available] - provides an understanding of the principles of tonal and atonal counterpoint from the origins of past-music to the present. The course will focus primarily, however, on the music and compositional techniques of 18th Century style.

MUSC 312 COMPOSITION (3 credit hours) [offered when there is sufficient student demand and faculty are available] - provides the student with experience in the art and technique of composing original pieces of music. A highly individualized practice, compositions will be done in a variety of media – vocal and instrumental – and in a variety of musical styles, including computer-assisted works.

MUSC 322 MUSIC HISTORY II (3 credit hours) [offered every other year] - offers students a continuation of Western Music Tradition I. It provides an in-depth examination of music and musical styles from the Classical era (c. 1750) through the present. The course relates musical styles to historical, cultural, and societal developments. Examination of musical scores and listening to recordings is required. Prerequisite: MUSC 121. (IAI Course # F1 902)

MUSC 331 INTRODUCTION TO ETHNOMUSICOLOGY (3 credit hours) [offered every other year] - provides an exploration of world music cultures; allows students to develop an understanding of diverse musical styles, aesthetic viewpoints of differing cultures, and the function of music in western and non-western societies. The student will not only encounter new musical expressions but also the philosophies and world views which accompany them. Prerequisite: Junior year or permission of instructor.

MUSC 340 JUNIOR RECITAL (no credit awarded) [offered every semester] - provides the music major with experience performing 20-30 minutes of music before an audience and helps to prepare them for the recital in the senior year. Recital is done in conjunction with private applied music instruction. Permission of applied music instructor required. Permission of applied instructor required.

MUSC 341 ADVANCED APPLIED PIANO (1-4 credit hours) [offered every semester] - provides private lessons to students in a private studio setting. Master classes are organized for each student during the semester with an informal recital/jury at the end of each semester. May be repeated to a maximum of 12 semester hours. Prerequisite: Minimum of 4 hours of MUSC 241. (IAI Course # MUS 909)

MUSC 342 ADVANCED APPLIED VOICE (1-4 credit hours) [offered every semester] - provides private lessons to students in a studio setting. Students are required to perform in at least one performance per semester, and sing two or more vocal solos from memory for the Winter/Spring Recital and/or a faculty jury. Prerequisite: Minimum of 4 hours of MUSC 242. (IAI Course # MUS 909)

MUSC 343 ADVANCED APPLIED GUITAR (1-4 credit hours) [offered every semester] - provides private lessons to students in a private studio setting. Master classes are organized for each student during the semester with an informal recital/jury at the end of each semester. May be repeated to a maximum of 12 semester hours. Prerequisite: Minimum of 4 hours of
MUSC 243. (IAI Course # MUS 909)

MUSC 355 INSTRUMENTAL TECHNIQUES FOR WINDS (1 credit hour) [offered every other year] - provides an introduction to playing techniques for woodwind instruments and the study of methods of individual and class instruction.

MUSC 356 INSTRUMENTAL TECHNIQUES FOR BRASS (1 credit hour) [offered every other year] - provides an introduction to playing brass instruments and to the study of methods of individual and class instruction.

MUSC 357 INSTRUMENTAL TECHNIQUES FOR STRINGS (1 credit hour) [offered every other year] - provides an introduction to playing string instruments and to the study of methods of individual and class instruction.

MUSC 358 INSTRUMENTAL TECHNIQUES FOR PERCUSSION (1 credit hour) [offered every other year] - provides an introduction to playing techniques for percussion instruments and the study of methods of individual and class instruction.

MUSC 361 CHORAL CONDUCTING I (2 credit hours) [offered every year] - provides basic choral conducting techniques, score reading and interpretive skills for choral organizations. Students utilize a capella choral scores as well as those with piano and other instrumental accompaniment. Also deals with selection of repertoire, program planning, and rehearsal techniques. Prerequisites: MUSC 206 and MUSC 216.

MUSC 362 KEYBOARD ACCOMPANYING (1 credit hour) [offered when there is sufficient student demand and faculty are available] - provides experience in the art and technique of accompanying singers and instrumentalists, both solo and ensemble. Student keyboardists may accompany other students for lessons, recitals, and concerts under faculty supervision; students may also accompany University choral ensembles. Permission of instructor required.

MUSC 363 OPERA THEATRE / MUSIC THEATRE WORKSHOP (1 credit hour) [offered when there is sufficient student demand and faculty are available] - provides basic training in opera, theatre and musical theatre performance, including stage movement, improvisation, vocal coaching, and the stage arts. Scenes and portions of works will be performed. Two class meetings per week with additional rehearsals scheduled as needed. May be repeated for credit.

MUSC 365 DICTION II: FRENCH AND GERMAN (2 credit hours) [offered every other year] - using the International Phonetic Alphabet, develops skill in pronunciation and articulation of the French and German languages for use in vocal and choral literature. Prerequisite: MUSC 265 or instructor permission.

MUSC 380 MUSIC TECHNOLOGY (3 credit hours) [offered when there is sufficient student demand and faculty are available] - provides an introduction to the music technologies available to music professionals. Topics to be included are computer proficiency, MIDI, computer-based music notation, sequencing, music and the Internet, and current trends in music technology.

MUSC 381 PRINCIPLES AND METHODS OF MUSIC EDUCATION: ELEMENTARY AND MIDDLE SCHOOL (3 credit hours) [offered every year] - provides the study of instructional procedures, techniques, resources, and the tools for teaching elementary and middle school students. The course also provides an understanding of instructional innovations, classroom organization and management, and measurement and evaluation techniques. Prerequisites: MUSC 206 and MUSC 280.

MUSC 382 PRINCIPLES AND METHODS OF MUSIC EDUCATION: MIDDLE AND SECONDARY SCHOOL (3 credit hours) [offered every other year] - provides the
study of instructional procedures, techniques, resources, and the tools for teaching middle and high school students. The course also provides an understanding of instructional innovations, classroom organization and management, and measurement and evaluation techniques. Prerequisites: MUSC 206 and MUSC 280.

MUSC 384 VOCAL PEDAGOGY (2 credit hours) [offered every other year] - provides an understanding of the physiological workings of the voice and pedagogical methods for teaching singing, and includes clinical, critiqued student teaching experience.

MUSC 387 PIANO PEDAGOGY I (2 credit hours) [offered when there is sufficient student demand and faculty are available] - provides students with the concepts and materials necessary for successful piano and keyboard teaching at the elementary level. Business aspects, elementary methods, ensemble literature, lesson planning, and software programs appropriate for beginner students will be included.

MUSC 413 ORCHESTRATION AND ARRANGING (3 credit hours) [offered when there is sufficient student demand and faculty are available] - provides the skills to arrange and orchestrate pieces of music for a variety of vocal and instrumental media.

MUSC 425 VOCAL LITERATURE (3 credit hours) [offered every other year] - provides a survey of sacred and secular literature for the solo voice from approximately 1650 to the present. Designed for music majors. Prerequisites: MUSC 206, MUSC 223 and permission of instructor.

MUSC 426 PIANO LITERATURE (3 credit hours) [offered every other year] - provides a survey of keyboard music from the Renaissance era through the present. Designed for music majors. Prerequisites: MUSC 206, MUSC 223 and permission of instructor.

MUSC 427 CHORAL LITERATURE, METHODS AND MATERIALS (2 credit hours) [offered every other year] - provides students with the pedagogical techniques and materials required for the direction of singers in large and small choral ensembles. The course places an emphasis on vocal technique, diction, rehearsal methods and repertoire selection for choral groups. Prerequisites: MUSC 206 and MUSC 361.

MUSC 440 SENIOR RECITAL (no credit awarded) [offered every semester] - a half recital or a full recital (to be determined by the applied teacher) is intended to be the capstone performing experience for the Music Major. The recital allows students to master a select repertoire in their applied area and to perform it in a public venue.

MUSC 461 CHORAL CONDUCTING II (3 credit hours) [offered every other year] - provides the student with advanced choral conducting techniques, score reading and interpretive skills. Students utilize more complex and difficult choral scores, analyzing and preparing them for rehearsal and performance. Students may rehearse and perform with one of the University choral ensembles as part of the course. Prerequisite: MUSC 361.

MUSC 487 PIANO PEDAGOGY II (2 credit hours) [offered when there is sufficient student demand and faculty are available] - provides students with the concepts and materials necessary for successful piano and keyboard teaching at the intermediate and advanced levels. Business aspects, teaching methods, ensemble literature, lesson planning, and software programs appropriate for intermediate and advanced students will be included.

MUSC 494 TOPICS IN MUSIC (3 credit hours) [offered when there is sufficient student demand and faculty are available] - is a title given to a course which covers specific themes, practices, and subject content not currently offered in the curriculum. This course is directed primarily to student majoring in the subject area and could be used to complete major requirements. The course will provide an in-depth study of a specific topic. Prerequisites will vary.
NUCLEAR MEDICINE TECHNOLOGY (NUCM)

NUCM 401 ADMINISTRATIVE MANAGEMENT METHOD AND HOSPITAL ORIENTATION (1 credit hour) [offered every fall] - discusses the basis of Nuclear Medicine Department administration, management, and communication issues. Career skills are developed through student participation and seminars. Professional approach, patient care guidelines, medical ethics, communication skills, and medico-legal considerations are discussed. The interview process, resume preparation, and other related skills are also developed.

NUCM 402 CLINICAL CORRELATION: ANATOMY, PHYSIOLOGY, AND PATHOLOGY (3 credit hours) [offered every fall] - is a lecture series of topics of current interest selected and presented by nuclear medicine physicians. Emphasis is on clinical interpretation of organ systems pathophysiology as reviewed by the practicing nuclear medicine physician.

NUCM 405 RADIATION PROTECTION - RS PRACTICUM (2 credit hours) [offered every fall] – This clinical Practicum addresses the principles of Radiation Detection which include the design and function of instrumentation used in the nuclear medicine laboratory. Principles and theory of radiation measurement, event counting activity, exposure, absorbed energy dose, biological effects, unit analysis, absolute and comparative counting, detector types, scintillation detectors, pulse height spectra, detection efficiency, resolving time and statistics are discussed.

NUCM 407 NUCLEAR PHYSICS AND INSTRUMENTATION (3 credit hours) [offered every fall] - addresses basic facts and physical principles associated with the atom, nucleus and quantum physics related to radioactive decay. The theory of electron shells and its relation to the properties of the elements and the production of characteristic X and gamma rays, anger electrons and Bremstrahlung; the nucleus and modes of nuclear decay; radiation dosimetry, interaction with ionizing radiation with matter, and performance characteristics of gamma cameras are discussed.

NUCM 409 APPLIED TECHNICAL AND BASIC MATHEMATICS (1 credit hour) [offered every fall] - explores mathematics as applied to nuclear medicine technology, radiation unit conversion, radioactive dose calculations, determination of specific activity and solution concentration in radioimmunoassay and imaging laboratory. The topic is a continuation of NUCM 407.

NUCM 412 CLINICAL NUCLEAR PRACTICUM I (5 credit hours) [offered every fall] - is a supervised clinical practice to develop advanced static dynamic and SPECT organ imaging techniques to produce planar and three-dimensional images of pathophysiological processes. PET and PET/CT imaging are also practiced. Fundamental skills of patient care - preparation and positioning; radiopharmaceutical dose preparation and administration; film critique, image identification and evaluation; scintillation camera use and collimator selection; anatomy and physiology related radiopharmaceutical localization; patient scheduling and record keeping are addressed.

NUCM 413 CLINICAL NUCLEAR PRACTICUM II (5 credit hours) [offered every spring] - is a continuation of NUCM 412.

NUCM 415 RADIOPHARMACY/LABORATORY (2 credit hours) [offered every spring] - supervised clinical practice, which provides instruction in the physical and biological properties of radiopharmaceuticals. Emphasis is given to radioactive properties, decay and half-life, tissue localization, production techniques, chemical impurities, generator systems, patient dose and preparation, regulatory agencies and S.I. units in radiopharmacy.
NUCM 416 NUCLEAR MEDICINE QUALITY CONTROL PROGRAM (2 credit hours) [offered every spring] – supervised clinical practice, which provides instruction in the elution of Mo/Tc generator, preparation and testing of radiopharmaceutical products as well as gamma camera uniformity, relative sensitivity and spatial linearity and resolution testing. Also practiced is the use of flood field and bar phantoms on in vitro imaging detectors in the nuclear medicine imaging laboratory.

NUCM 418 CLINICAL PROCEDURES REVIEW (2 credit hours) [offered every fall] – classroom instruction emphasis is placed on theory and techniques of clinical procedures used in nuclear medicine, including SPECT and PET imaging. The fundamental skills of patient care, radiopharmaceutical preparation, and administration are covered. Emphasis is also on computer processing techniques used in coordination with imaging procedures.

NUCM 419 RADIOBIOLOGY (2 credit hours) [offered every spring] – explores cellular and organ responses to the effect of ionizing radiation sources and radionuclides including units of exposure and dose and their potential effects on biological systems. Methods of organ dose calculation and body distribution are also explained.

NUCM 420 GAMMA CAMERAS (1 credit hour) [offered every fall] – consists of lectures and laboratory sessions relating to the gamma camera from a physics point of view, principles of gamma camera operation, methods of measuring and maintaining camera performance, and the theory and practice of acquiring tomographic studies are addressed.

NUCM 423 PRINCIPLES OF RADIOCHEMISTRY (2 credit hours) [offered every spring] – classroom instruction relating to the clinical practice provided in NUCM 415 and NUCM 416. Classroom discussion focuses on properties of radiopharmaceuticals in medicine and preparation and quality testing of those radiopharmaceuticals. Also covered are regulatory principles involving hot-lab activities.

NUCM 427 COMPUTER APPLICATIONS IN NUCLEAR MEDICINE (3 credit hours) [offered every spring] – addresses the clinical application of “hardware and software” processing used in the clinical medicine laboratory. Emphasis is on the basic definition of computer concepts such as devices, memory usage, and SPECT imaging. Introduction to the computer processing of digital images is taught.

NUCM 499 INDEPENDENT STUDY (1 credit hour) [offered every spring] – requires that oral and written communication skills be developed as used by the nuclear medicine technologist. Emphasis is on clinical articles, laboratory procedures, special patient case history, and continuing education projects.

NURSING (NURS)

NURS 250 CONCEPTS OF PROFESSIONAL NURSING (3 credit hours) [offered every semester] – is a course designed to provide a foundation for the study of professional nursing. The philosophy and the organizing framework of the educational program of the College of Nursing and Allied Health are introduced. Special emphasis will be placed on Orem’s Self-Care Deficit theory. Through critical thinking application, the student is guided in conceptualizing how knowledge previously attained in the liberal arts, sciences, and the humanities interrelates with nursing practice.

NURS 251 OREM CONCEPTS (1 credit hour) [offered when there is sufficient student demand and faculty members are available] – is a course designed for transfer students who have previously taken a course in Concepts of Nursing. This course will examine the philosophy and the organizing framework of the education program of the College of Nursing and Allied Health. Special emphasis of this course will be on Orem’s Self-Care
Deficit Theory. The theoretical framework will be thoroughly examined. The student is
guided in conceptualizing how knowledge previously attained in the liberal arts, sciences, and
the humanities interrelates with nursing practice.

NURS 260 HUMAN NUTRITION (2 credit hours) [offered every semester] - expands the
students’ knowledge of nutritional concepts and issues. Student will examine their own
dietary practices and devise strategies to modify them to improve their nutritional health.
Open to all students.

NURS 265 HEALTH PROMOTION AND FAMILY ASSESSMENT (3 credit hours)
[offered every semester] - focuses on assessment of Orem’s universal and developmental self-
care requisites across the lifespan. Concepts related to health promotion and wellness are
applied for individuals and families. The complex interrelationships that exist between health
and functional levels of individuals, families, and communities are explored. Assessment of
family dynamics is addressed with emphasis on the development of self, personal boundaries,
family crisis, culture, and parenting. Professional, legal ethical ramifications related to these
content areas are also discussed.

NURS 270 HEALTH AND AGING (3 credit hours) [offered every semester] - is a course
designed to address the aging process across the health care continuum from wellness to
illness. It provides an increased awareness of the special considerations important for
maximizing the health of this population. The course provides students with a theoretical
foundation concerning concepts and issues relevant to the care of older adults. The nursing
process is utilized as a framework to strengthen the student’s ability to utilize critical thinking
skills, increase therapeutic communication effectiveness, and enhance professional nursing
practice in providing care for the gerontological client.

NURS 308 HEALTH ASSESSMENT (3 credit hours) [offered every semester] - includes
assessment of Orem’s universal and developmental self-care requisites from childhood
through senescence. Health deviation self-care requisites of clients from childhood through
senescence are identified. Professional, legal and ethical ramifications underlying the
assessment process are emphasized. Students are given the opportunity to practice and
validate interviewing and physical assessment skills in the basic skills laboratory prior to
application in various clinical settings. Prerequisite: Eligibility for clinical course progression
completed, NURS 250; NURS 265; NURS 270, Anatomy and Physiology, Chemistry,
Microbiology. Prerequisite or Co-requisite NURS 311 and NURS 313.

NURS 310 PROFESSIONAL NURSING PRACTICE I (8 credit hours) [offered every
semester] - builds upon the knowledge acquired in the prerequisites, NURS 250, NURS 265
and NURS 270 while continuing to incorporate health promotion, protection and
maintenance. Through classroom and clinical experiences, the students begin the application
of critical thinking in clinical situations as they examine the self-care requisites of clients from
young adulthood through senescence. The course focuses on professional nursing
interventions for health deviations. Clinical experiences provide further development and
utilization of therapeutic communication. Opportunities for written and verbal
communication are provided through client interaction, nursing care, nursing care plans, and
legal documentation. The nursing process is applied to clients of various ethnocultural origins
who require primary and/or secondary levels of health care in a variety of settings. This
course emphasizes supportive educative and partly compensatory nursing systems.
Prerequisites: Eligibility for clinical course progression completed, NURS 250, NURS 265,
NURS 270. Prerequisites or Co-requisite: NURS 308, NURS 311 and NURS 313.
(Withdrawal from NURS 308, 311 OR 313 also requires withdrawal from NURS 310).

NURS 311 PATHOPHYSIOLOGY (3 credit hours) [offered every semester] - builds upon

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the knowledge of normal human structure and function gained in anatomy and physiology courses in Level I. The course begins with a discussion of the concept of health versus disease. The focus is on disease or the physiological alterations in body structure and pathological disruptions in function. These deviations are discussed using Orem's universal self-care requisites as an organizing framework. The course is designed to allow the student to integrate principles and concepts of Pathophysiology into concurrent and subsequent clinical nursing courses. Prerequisites: Anatomy and Physiology, Chemistry, Microbiology.

NURS 313 PHARMACOLOGY (3 credit hours) [offered every semester] - includes a broad overview of the historical development, regulatory control, and current practices which govern drug therapy. The relationship of drug therapy to the universal self-care requisites across the life span is presented. Drug classifications with related actions, effects, and interactions are examined. The roles and responsibilities of the professional nurse in pharmacotherapy are identified. The course is designed to allow the student to integrate principles and concepts of drug therapy into clinical nursing courses. Prerequisites: Anatomy and Physiology, Chemistry, Microbiology.

NURS 360 PROFESSIONAL NURSING PRACTICE II (8 credit hours) [offered every semester] - builds upon the knowledge and skills acquired in previous courses. Through classroom and clinical experiences, the student examines the self-care requisites of the childbearing and childrearing family and related health care needs. Critical thinking skills are strengthened through the application of the nursing process in client care experiences and written assignments. Students work with clients requiring primary and/or secondary levels of health care in a variety of health care settings. Students are provided with the opportunity to practice therapeutic nursing interventions across diverse cultural and ethnic groups. Communication skills are developed with peers and members of the health team, legal documentation, and client/family teaching. Ongoing development of the profession's role is supported through group discussion, analysis of client experience and care setting. Students are asked to apply research to clinical situations. Prerequisites: NURS 308, NURS 310, NURS 311, NURS 313. Co-requisite: NURS 362.

NURS 362 ETHICAL AND LEGAL ISSUES FOR HEALTH CARE (2 credit hours) [offered every semester] - focuses on the ethical and legal considerations which impact the nursing practice and the health care delivery system. Established standards are utilized as framework to promote ethical decision-making. Legal parameters, which affect the health care delivery system and their relationship to nursing practice, are explored. The course is designed to allow the student to integrate legal and ethical concepts into concurrent and subsequent clinical nursing courses. Prerequisite: NURS 310 or consent of the instructor.

NURS 364 SPIRITUAL AND ETHNOCULTURAL ASPECTS OF NURSING (3 credit hours) [offered every year] - builds upon previous courses in the curriculum. The influence of culture, ethnicity, and spiritual belief systems upon individuals is explored. The adaptation of the nursing process to include unique interpretations related to culture, ethnicity, and spiritual belief systems is presented. A variety of beliefs and practices regarding health and illness are discussed. Prerequisite: NURS 310, RN status or consent of the instructor.

NURS 365 PHYSICAL ASSESSMENT (3 credit hours) [offered every year] - is a course that focuses on assessment of Orem's universal and developmental self-care requisites across the lifespan. Emphasis is on the physical assessment techniques of inspection, auscultation, percussion and palpation, which are utilized in the assessment of each body system. Concepts related to health promotion and wellness are integrated into the course and professional, legal and ethical ramifications underlying the assessment process are discussed. Students are expected to practice and validate interviewing and physical assessment skills. Prerequisite:
RN status.

NURS 366 PERIOPERATIVE NURSING (2 credit hours) [offered when there is sufficient student demand and faculty members are available] - focuses on the care of patients who experience the prospect or performance of operative or other invasive procedures. Concepts related to natural, behavioral, and social sciences are integrated and applied to the care of the patient and family. Perioperative nursing practice includes providing direct care, coordinating comprehensive care, education, and collaborating with other health professionals to meet the patients' needs. Prerequisite: NURS 308 and NURS 310.

NURS 367 COMPLEMENTARY THERAPIES IN NURSING (1 credit hour) [offered when there is sufficient student demand and faculty members are available] - This course is designed to provide the theoretical basis for select complementary and alternative medicine (CAM). Published research as well as scientific and consumer internet resources will be used to evaluate the indications, contraindications, safety and efficacy of CAM therapies such as Ayurveda, Homeopathy, acupuncture, herbal remedies, bioelectromagnetic therapies, massage and pet therapy.

NURS 368 ISSUES IN BOLIVIA (3 credit hours) [offered every spring] - requires participation is a field based group experience in Bolivia. This course will focus on acquiring knowledge of health care through research and practice in an underdeveloped country, Bolivia. Students will have the opportunity to compare cultures and health issues with those of the U.S. This course will include online course work, both pre and post trip. Students must contact Sister Sharon Fredericks (ext 3415) the semester prior to this course to learn about the selection process. Prerequisite: NURS 308 and NURS 310.

NURS 410 PROFESSIONAL NURSING PRACTICE III (8 credit hours) [offered every semester] - builds upon the knowledge and skills acquired in Level I and II courses. The course focuses on the application of the nursing process to clients across the life span who are adapting to acute and chronic physiologic and/or psychiatric alterations within their internal and external environment. Self-care requisites and the care of the older adult are integrated into both didactic and clinical components. Student assignments emphasize care of clients requiring partly compensatory, and wholly compensatory nursing interventions in secondary and tertiary health care settings. Prerequisites: NURS 360, and NURS 362.

NURS 412 NURSING RESEARCH (3 credit hours) [offered every semester] - introduces the student to the research process and its application to nursing practice. The course focuses on an analysis of the steps of the research process, interpretation of research findings and evaluation of research outcomes. The value of research for the advancement of nursing knowledge is discussed. Prerequisites: Statistics, NURS 360 or consent of the instructor.

NURS 413 HEALTH POLICY, FINANCE AND INFORMATICS (2-3 credit hours) [offered when there is sufficient student demand and faculty members are available] - studies the complex client system interactions with economic and political forces through class project-work. Hospitals case management is explored to illustrate quality and financial impacts on patient care and bottom lines. Innovative methods, skills, and tool essential for nurses are developed through four project-based case studies. The student is immersed in the business of healthcare through four different projects utilizing their current clinical knowledge base and learned management principles. Emphasis is given to the structure and function of healthcare in different in real-time healthcare environment settings. The course encourages student to harness their current practice skills to help them identify with principles of management, negotiation and selling, and communicate results.

NURS 416 CLIENT EDUCATION (3 credit hours) [offered every year] - examines the supportive educative role of the nurse in assisting clients and families with self care deficits.
The teaching process is used as a systematic approach to assess both the teacher and learner as biological, psychological, social, spiritual, and cultural beings. The student will assess client's readiness to learn, develop various teaching strategies, and implement a plan for instruction for selected clients and families. The student will then evaluate the teaching-learning process. Prerequisite: NURS 310.

NURS 420 THE MINISTRY OF NURSING (3 credit hours) [offered every year] - will enhance personal growth and integration of a value/belief system with professional nursing practice. This will occur by using the critical thinking skills of discrimination/contemplation, discernment, reflection, and meditation. Students will focus on nursing as a ministry and relate that to a personal sense of mission. Journal writing as a skill will be practiced. A condensed format will be used to maintain the student’s focus and concentration. Co-requisite or Prerequisite: NURS 410, RN status, or consent of the instructor.

NURS 421 PAIN-CONCEPT MANAGEMENT (3 credit hours) [offered every year] - is designed to be a culminating experience in which the student has an opportunity to apply, evaluate, and synthesize previously learned knowledge and skills from nursing and related disciplines. It is designed to facilitate the development of the student’s decision-making style, and critical thinking skills within a variety of health care settings. The focus of the course is the use of the nursing process with individuals, families, and groups experiencing pain. This course emphasizes supportive-educative, partly compensatory and wholly compensatory nursing systems. Prerequisite: NURS 360, RN status, or consent of the instructor.

NURS 422 HEALTH CARE AND AGING (3 credit hours) [offered every year] – is designed to address the aging process across the healthcare continuum from wellness to illness. It provides an increased awareness of the special considerations important for maximizing the health of this population. The course provides students with a theoretical foundation concerning concepts and issues relevant to the care of older adults. The nursing process is utilized as a framework to strengthen the student’s ability to utilize critical thinking skills, increase therapeutic communication effectiveness, and enhance professional nursing practice in providing care for the gerontological client. Prerequisite: RN status.

NURS 460 PROFESSIONAL NURSING PRACTICE IV (8 credit hours) [offered every semester] - is the culminating experience in which the student has an opportunity to apply, evaluate and synthesize previously learned knowledge and skills from the nursing discipline and related disciplines. It is designed to facilitate the development of the student's own leadership potential, decision-making style, and critical thinking skills within a variety of health care settings. The focus of the course is the use of the nursing process with individuals, families, and groups experiencing physiological and/or psychosocial deficits. The student will examine and utilize the process of planned change within the health care system to improve the overall quality of health/life within the community. This course emphasizes supportive-educational, partly compensatory and wholly compensatory nursing systems with a particular emphasis upon the wholly compensatory. Prerequisite: NURS 410.

NURS 461 PRINCIPLES OF MANAGEMENT IN HEALTH CARE (3 credit hours) [offered every semester] - provides an overview of management principles. Emphasis is given to the function of management within a health care setting. Co-requisite: NURS 460 or consent of the instructor.

NURS 462 PROFESSIONAL NURSING SEMINAR (2 credit hours) [offered every semester] - is designed to assist the student in role transition to that of a registered nurse. Issues discussed include: the health care system, political implications for health care, and for professional nursing. The student focuses on the role and responsibilities of the professional nurse. Prerequisites: NURS 410 and co-requisite: NURS 460.

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NURS 471 COMMUNITY HEALTH (4 credit hours) [offered every semester] - provides an overview of community health principles. This course provides the student with the opportunity to apply and synthesize theoretical concepts with clients who have multiple acute and/or chronic health deviations. Ongoing development of the professional role is supported through group discussion, analysis of client experiences and care settings, and exposure to formal nursing research. (Clinical hours are required for this course). Prerequisite: RN status; BIOL 211, 221, 252, and CHEM 121 (or equivalents).

NURS 473 APPLIED CLINICAL CONCEPTS (4 credit hours) [offered every semester] – is a course designed to be a culminating experience in which the student has an opportunity to apply, evaluate and synthesize previously learned knowledge and skills from the nursing discipline and related disciplines. It is designed to facilitate the development of the student’s own leadership potential, decision-making style, and critical thinking skills within a variety of health care settings. The focus of the course is the use of the nursing process with individuals, families and groups experiencing physiological and/or psychosocial deficits. Students are given the opportunity to apply and synthesize theoretical concepts with clients who have multiple, acute and chronic health deviations. This course emphasizes supportive-educative, partly compensatory and wholly compensatory nursing systems with a particular emphasis upon the wholly compensatory. Various experiences are provided to enhance communication skills in the areas of verbal communication with peers and members of the health team, legal documentation, and client/family teaching. Ongoing development of the professional role is supported through group discussion, analysis of client experiences and care settings, and exposure to formal nursing research. (Clinical hours are required for this course). Prerequisite: RN status; BIOL 211, 221, 252, and CHEM 121 (or equivalents).

NURS 474 LEADERSHIP AND MANAGEMENT (3 credit hours) [offered every semester] - presents basic concepts of leadership and management, with an emphasis on their application to today’s changing health care system. Prerequisite: RN status.

NURS 494 NURSING SPECIAL TOPICS (1-3 credit hours) [offered when there is sufficient student demand and faculty members are available] – offers advanced study of selected topics in nursing. Not available all semesters.

NURS 496 INDEPENDENT STUDY NURSING (1-3 credit hours) [offered when there is sufficient student demand and faculty members are available] - is designed to allow the student to investigate and develop expertise in a specialized area of nursing. The intent of this course is to permit the student to increase competency in a selected area of interest in collaboration with a designated faculty member. The student is responsible to formulate objectives for the experience, plan and implement the learning activities, and evaluate the total experience under supervision of the faculty. Prerequisites: GPA 3.0+, approval of Dean, and completion of NURS 360 or equivalent.

ORGANIZATIONAL LEADERSHIP/HEALTH CARE LEADERSHIP (ORGL)

ORGL 331 LEADERSHIP PRINCIPLES (3 credit hours) - introduces a broad range of concepts, theories, and practices important for a basic understanding of leadership. Topics focus on the various styles and environments of effective leaders. The course will examine application of leadership principles to realistic situations and problems such as quality, productivity, and profitability. It will also examine the role of leadership in achievement of organizational goals. This is a prerequisite for MGMT 303, 351 and 360.

ORGL 332 INTERPERSONAL COMMUNICATION (3 credit hours) - explores basic
communication concepts and their implication for one-on-one interaction in the workplace. It establishes an understanding of oneself and others. It explores the skills, medium, environment, and means of communication that will allow the student to be more effective in a complex work environment.

ORGL 333 TEAM BUILDING AND DEVELOPMENT (3 credit hours) - focuses on strategies for building teams that are capable of fostering problem solving, innovation and continuous performance improvement. Topics include: stages of group development, conflict management, task and interpersonal skill development and designing and evaluating an effective team-building program.

ORGL 334 TECHNOLOGY IN LEADERSHIPS (3 credit hours) - focuses on developing an understanding of current and emerging technologies and technology issues - computer systems design and operation, networks, privacy, security, and ethics. Students will also gain an advanced level of mastery in application software that is critical to maintaining high levels of productivity among executive, professional, and support personnel. This course will provide an overview of various applications and their functions in assisting leaders in directing teams and creating business reports.

ORGL 335 STRATEGIES FOR CHANGE (3 credit hours) - addresses the complex issues that a mid-level leader faces in the processes of organizational change. He or she many times is the middle person, having a supportive role in decisions about change and needing to implement those changes in the workplace. This course provides an understanding of the human elements and the processes of change within organizations.

ORGL 336 ETHICS IN THE WORKPLACE (3 credit hours) - explores the issues and processes related to ethics in the workplace. The course will also give special attention to the role of ethics in professional leadership. Insights from the intellectual and moral content of the university’s Catholic Franciscan tradition will help enrich the moral discussion.

ORGL 337 HUMAN RESOURCES FOR LEADERS (3 credit hours) - addresses personnel issues for the mid-level leader who is responsible for the performance of employees who report to him or her. It focuses on the policies, practices, and systems that influence employee’s behavior, attitudes, and performance. It includes strategies for understanding and carrying out the personnel policies of the organization.

ORGL 338 CONTEMPORARY ISSUES IN LEADERSHIP (3 credit hours) - examines leadership issues that have been significant in the past two years. This course will involve flexible topics and innovative approaches to help learners reach an understanding of the contemporary national and world forces that are influencing leadership decisions.

ORGL 341 HEALTH ORGANIZATIONS AND LEADERSHIP (3 credit hours) - explores the leadership roles and functions in the modern health care organization. Included is working with boards and organized medical staffs.

ORGL 342 HEALTH CARE DELIVERY (3 credit hours) - explores health care delivery in the United States in its various forms and functions. Acute and long-term care systems will be explored. An analysis of the impact of health policy on health care delivery will be included.

ORGL 343 HISTORY OF AMERICAN HEALTH CARE (3 credit hours) - explores the history of medicine and health care in America. Issues in medical education, hospital care, mental health, and the institutionalization of health care will be explored. Included is the integration of this history with current health care issues.

ORGL 344 HEALTH CARE COMMUNICATIONS AND INFORMATION (3 credit hours) - examines the skills central to effective communication in health care organizations.
Speaking, writing, and electronic skills are emphasized as they apply to the unique needs of professionals in the health care field.

ORGL 345 HEALTH INFORMATION MANAGEMENT (3 credit hours) - is a comprehensive introduction to health information management. It includes discussions of setting, patient records, registers, legal aspects, coding, and reimbursement.

ORGL 346 HEALTH CARE ACCOUNTING AND BUDGETING (3 credit hours) - provides an introduction to and an analysis of selected financial issues relative to the health care industry in general. Particular attention will be given to healthcare finances and accounting practices. It is intended that at the conclusion of the course, non-financial managers of health care institutions will obtain an appreciation for and understanding of the financial implications of operational and strategic management decisions. The course provides a foundation of knowledge that will assist students who pursue future courses of study in health care accounting or finance.

ORGL 347 HEALTH CARE REGULATION AND POLICY (3 credit hours) - provides an introduction to the political, legislative, and regulatory forces in the industry. It will include discussions of the healthcare political process, how healthcare policies are developed, passed and implemented, and how consumer protections are intertwined with public health policy.

ORGL 351 STRATEGIC HUMAN RESOURCE DEVELOPMENT (3 credit hours) - is an overview of the principles and practices of organizational learning, performance, and change. It includes the four components of HRD: training and development, organization development, career development, and performance improvement. It addresses the roles and competencies necessary for a mid-level employee to bring about individual and organizational effectiveness.

ORGL 352 TRAINING AND DEVELOPMENT (3 credit hours) - gives students an overview of the planning, implementation, and evaluation of employee training and development.

ORGL 353 PERFORMANCE IMPROVEMENT (3 credit hours) - examines the characteristics of effective performance improvement systems. Special attention is given to the roles and responsibilities of employees, managers, and organizations when improving individual and organizational performance.

ORGL 354 ORGANIZATIONAL DEVELOPMENT (3 credit hours) - examines the problems and dynamics of organizational change. Various leadership strategies and resources that may facilitate change and ongoing personal development will be studied. The course emphasizes the learning process, OD interventions, consultant skills, reinforcement, monitoring success, and ethical issues.

ORGL 355 ORGANIZATION CULTURE (3 credit hours) - focuses on organizational culture as the personality of the organization. Culture is comprised of the assumptions, values, norms and tangible signs (artifacts) of organization members and their behaviors. Organization culture influences organizational behaviors, strategies, group dynamics, perceptions, and the capacity culture has on achieving corporate objectives. The emphasis of the course will be on the role organization culture plays in a system-wide organizational change effort.

ORGL 356 PROCESS CONSULTATION (3 credit hours) - emphasizes that process consultation is an applicable concept towards the process of helping people, groups, and organizations. Process consultation is not a set of techniques or steps but rather a process of moving the consulting assignment forward to achieve success for the consultant and client.
Process consultation is a behavioral attitude towards improving the client-consultant relationship.

ORGL 357 CAREER DEVELOPMENT (3 credit hours) - provides an overview of how career development concepts, theories, and practices can be used as a change strategy in organizations. Through personal exploration and evaluation of commonly utilized tools and models, learners will gain insights and competencies that will improve their personal development and organizational effectiveness.

ORGL 494 TOPICS (1-3 credit hours) - provides for the study of selected topics in leadership not included in the regular curriculum. It may be repeated for credit.

ORGL 497 ASSIGNED RESEARCH IN LEADERSHIP (1-3 credit hours) - provides an opportunity for in-depth exploration of special interest to a student. The student is supervised by a member of the full-time faculty to establish a research project and determine the requirements for completion.

**PHILOSOPHY (PHIL)**

All courses except PHIL 101 have a prerequisite of one course in philosophy – preferably PHIL 101.

PHIL 101 INTRODUCTION TO PHILOSOPHICAL THINKING (3 credit hours) [offered every semester] - attempts to identify the types of questions historically central to philosophical inquiry and to show how fundamental philosophical issues are embedded in the ordinary concerns of the other disciplines and everyday life. Through an exploration of the origin and nature of philosophic problems, the course exhibits the value, function, and branches of the discipline and develops the student’s analytical, critical and communicative abilities. (IAI Course # H4 900)

PHIL 202 PHILOSOPHY OF THE HUMAN PERSON (3 credit hours) [offered every year] - surveys selected classical and contemporary theories of human nature such as: Plato, Aristotle, Thomas Aquinas, Sartre, Skinner and Freud. Special attention will be given to an explication of "person" including intellectual and volitional powers.

PHIL 228 TOPICS IN CONTEMPORARY PHILOSOPHY (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - develops a student’s ability to critically analyze contemporary philosophical works. The content may center around a theme or a school of philosophy. Attempts will be made to indicate the importance of the philosophical theme or school for understanding contemporary life.

PHIL 294 TOPICS (1-4 credit hours) [offered when there is sufficient student demand and faculty members are available] is a title given to a course which covers broad themes, practices, and subject content not currently taught in the curriculum. This course is directed primarily at non-majors and may be used for general education where approved. Generally does not have prerequisites.

PHIL 310 ANCIENT GREEK PHILOSOPHY (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - explores the cosmological theories of the Pre-Socratics and the beginnings of metaphysics and ethics. Then through an analysis of some Platonic dialogues, students will critically examine some key issues in philosophy. Further development of the student’s critical thinking will be encouraged through reading and analyzing excerpts from the writings of Aristotle. Implications will be drawn and applications made to life today. Designed for the eager and serious student of philosophy.

PHIL 312 PHILOSOPHY OF RELIGION (3 credit hours) [offered every other year] - is
designed to meet the liberal education requirements for either philosophy or theology. It is able to do this since it touches upon those basic issues at the heart of these disciplines. The course will focus on the relationship of reason and revelation. It is precisely in an examination of this issue that the unique natures of philosophy and theology become evident. Questions concerning the nature of faith, the intelligibility of reality, nature and creation, the nature of God and the relationship between man and God will be examined. These questions are foundation to the understanding of human existence both from a theological and philosophical perspective. (IAI Course # H4 905)

PHIL 320 CONTEMPORARY ISSUES IN ETHICS (3 credit hours) [offered every year] - begins with a review of the metaphysical foundations of ethics and then proceeds to a survey of ethical approaches. Then it will delve into several issues with which our society, our world is struggling. Areas of concern may include: world hunger/poverty, the morality of nuclear war, stewardship of this planet’s resources, ethics in the marketplace and medical ethics. Students will practice ethical deliberation and decision-making, applying the various ethical theories.

PHIL 321 WESTERN POLITICAL PHILOSOPHY (3 credit hours) [offered every other year] - involves the study of basic concepts of political philosophy from a historical point of view. Through a comparison with ancient political philosophy, the development of modern political philosophy will be assessed. Topics to be studied include the nature and purpose of political association; the origin of obligation in natural law, natural rights and historical process; the role of authority, law, and liberty; property, equality and justice. Philosophers to be studied may include Aristotle, Plato, Augustine, Aquinas, Machiavelli, Hobbes, Locke, Rousseau, Hegel, Burke, and Marx.

PHIL 323 ETHICS AND ENVIRONMENTAL ISSUES (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - introduces students to several theories of normative ethics: classical, contemporary and specifically environmental. The environmental issues to be studied will be determined in terms of those issues which appear to be most urgent in our world today and also those which appear currently in daily living. Practice in the application of ethical theories, discussion of the attitudes, values and virtues needed by individuals and society in today's world as well as research pertaining to the environmental issues discussed will form the structure and content of the course.

PHIL 330 - BUSINESS ETHICS (3 credit hours) [offered every semester] - examines major ethical issues in business such as the social responsibilities of a corporation, marketing, truth in advertising, environmental impact, insider trading and corporate takeovers, hiring, discrimination and affirmative action. The course begins with an overview of ethical theories as applied to business. Case studies will be employed.

PHIL 494 TOPICS IN PHILOSOPHY (1-4 credit hours) [offered when there is sufficient student demand and faculty members are available] - is a title given to a course which covers specific themes, practices, and subject content not currently taught in the curriculum. This course is directed primarily to student majoring in the subject area and could be used to complete major requirements. The course will provide an in-depth study of a specific topic. Prerequisites will vary.

PHIL 495 DIRECTED STUDY (1-3 credit hours) [offered when there is sufficient student demand and faculty members are available]
PSCI 101 INTRODUCTION TO PHYSICAL SCIENCE (4 credit hours) [offered every spring] - designed to provide the non-science major with an understanding of the scientific process as seen through physics and chemistry and their impact on modern technology. A conceptual as well as empirical approach will be utilized in both theory and experiments. Topics covered are force and motion, work and energy, electricity and magnetism, nuclear physics, atomic structure, periodic table, chemical reactions and organic molecules. Three lecture periods and one two-hour laboratory meet per week. (IAI Course # P9 900L)

PSCI 104 ASTRONOMY (4 credit hours) [offered when there is sufficient student demand and faculty members are available] - is a non-mathematical lecture/lab survey of astronomy from the ancient Egyptians to satellite space probes. The course is especially designed for non-science majors. Students with no mathematics or science courses should find the course as understandable and enjoyable as those with strong science-math backgrounds. Outdoor (telescopic) and planetarium viewing of the night sky is included. Prerequisite: MATH 125. (IAI Course # P1 906)

PSCI 111 GENERAL PHYSICS I (4 credit hours) [offered every fall] - is a non-calculus study of mechanics, fluids and heat with special emphasis on applications of these concepts in various fields of science and technology. Three lecture periods and one two-hour laboratory meet per week. Prerequisite: Grade of “C” or higher in MATH 125. (IAI Course # P1 900L)

PSCI 112 GENERAL PHYSICS II (4 credit hours) [offered every spring] - is a non-calculus study of electricity, light, atomic and nuclear physics with special emphasis on applications of these concepts in various fields of science and technology. Three lecture periods and one two-hour laboratory meet per week. Prerequisite: Grade of “C” or higher in PSCI 111.

PSCI 211 PHYSICS I (4 credit hours) [offered when there is sufficient student demand and faculty members are available] – is a calculus-based study of classical kinematics, work, energy, impulse, momentum, collisions, and thermodynamics. Students should, at the end of the course, have a basic understanding of the physical concepts involved in the physics of motion. This includes the concepts of velocity, acceleration, circular motion, work, energy, momentum, rotation, and the laws of thermodynamics. Prerequisite or Co-requisite: MATH 181.

PSCI 212 PHYSICS II (4 credit hours) [offered when there is sufficient student demand and faculty members are available] - is a calculus-based study of waves, electrostatics, magnetostatics, electric circuits, and optics. Students should, at the end of the course, have a basic understanding of the physical concepts involved in the physics of electricity and magnetism. These include the concepts of simple harmonic motion, electric charge, electric fields, magnetic fields, inductance, and both direct and alternating current circuits. Prerequisite: Grade of “C” or higher in PSCI 211, and MATH 182 (or concurrent enrollment).

PSCI 294 SELECTED TOPICS IN PHYSICAL SCIENCE (1-4 credit hours) [offered when there is sufficient student demand and faculty members are available] - is a title given to a course which covers broad themes, practices, and subject content not currently offered in the curriculum. This course is directed primarily at non-majors and may be used for general education where approved. Generally does not have prerequisites.
POLITICAL SCIENCE (POLI)

POLI 101 INTRODUCTION TO POLITICS AND GOVERNMENT: SCOPE AND METHODS (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - surveys and introduces the student to the terminology, methodology, and scope of the discipline of political science.

POLI 103 INTRODUCTION TO WORLD POLITICS, INTERNATIONAL LAW, AND ORGANIZATION (3 credit hours) [offered every spring] - addresses how to study international politics, balance of power, state system, causes of war, the balance of terror, global eco-politics, the foreign policy process; origins, sources making and effectiveness of international law; world and regional international organizations, political economy, North/South relations, trade and tariffs. (IAI Course # PLS 912)

POLI 105 AMERICAN NATIONAL GOVERNMENT (3 credit hours) [offered every year] - covers the description and analysis of the basic institutions and process of the federal government: the Presidency, the Congress, the courts; democratic theory and Constitutional development; political parties, voters and elections; current political issues. (IAI Course # PLS 911)

POLI 201 AMERICAN POLITICAL THOUGHT (3 credit hours) [offered every year] - examines the major political ideas which have evolved from colonial times to the present. Alternative interpretations of social, racial, economic and political issues, contemporary protest ideologies, conservatism, liberalism, and capitalism are reviewed.

POLI 205 CONTEMPORARY POLITICAL AND SOCIAL JUSTICE ISSUES (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - analyzes current national problems including income distribution, welfare, the sexual revolution, energy, pollution, unemployment, race, health, monetary and fiscal policy.

POLI 208 COMPARATIVE POLITICAL ANALYSIS (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - compares Western and non-Western political systems; similarities and differences among institutions, decision makers, ideology, and policies; primary focus is placed on the United States, the former Soviet Union, Great Britain, China and Japan. (IAI Course # PLS 914)

POLI 220 PUBLIC ADMINISTRATION (3 credit hours) [offered every other year] - analyzes the public management process. Among the major topics covered are: management theory, policy implementation, human resource management, public and non-profit budget issues and processes, privacy, information and intergovernmental relations.

POLI 221 STATE AND LOCAL POLITICS (3 credit hours) [offered every other year] - studies the political systems and policy-making at the state and local levels in the United States emphasizing the process of policy-making, the problems and behaviors of political actors and institutional evolution. The roles of legislators, governors, and interest groups will be examined as well as parties, interest groups, participation, community development, and machine politics. (IAI Course # PLS 915)

POLI 225 POLITICS, PARTIES, AND PRESSURE GROUPS (3 credit hours) [offered every other year] - studies the behavior, organization and role of political parties; the electoral process, representation, campaign strategy and finance; types of interest groups and their impact on American politics.

POLI 230 POLITICAL COMMUNICATIONS (3 credit hours) [offered every other year] - examines the relationship of political institutions and actors and the media in American society. The interaction between these institutions and their impact on policy and on society are examined.
POLI 283 THE MIDDLE EAST IN WORLD AFFAIRS (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - involves an overview of the region. The major focus of the course concentrates on contemporary issues and politics in the Middle East: political Islam, the impact of the Iranian revolution, the Arab-Israeli conflict, Russian inroads in the Middle East and Afghanistan, oil, U.S. policy toward the Middle East and the Palestinian question. In addition, the course covers specific problems and prospects of individual states in the Middle East.

POLI 294 TOPICS (1-4 credit hours) [offered when there is sufficient student demand and faculty members are available] is a title given to a course which covers broad themes, practices, and subject content not currently taught in the curriculum. This course is directed primarily at non-majors and may be used for general education where approved. Generally does not have prerequisites.

POLI 308 POLITICS IN EASTERN EUROPE AND RUSSIA (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - studies the political development of Eastern Europe and Russia from the formation of the Soviet Union to contemporary times with an emphasis placed on the Khrushchev, Brezhnev, Gorbachev and Yeltsin eras; Marxist ideology; study of Soviet politics and breakdown of the Soviet Union; current social and economic problems and policies.

POLI 320 POLICY ANALYSIS, IMPLEMENTATION, AND EVALUATION (3 credit hours) [offered every other year] - examines the processes and tools for analysis, implementation and evaluation of public policy. Emphasis will be given to framework, modes of policy argument, the policy process, and evaluation.

POLI 321 WESTERN POLITICAL PHILOSOPHY (3 credit hours) [offered every other year] - involves the study of basic concepts of political philosophy from a historical point of view. Through a comparison with ancient political philosophy, the development of modern political philosophy will be assessed. Topics to be studied include: the nature and purpose of political association: the origin of obligation in natural law, natural rights, and historical process; the role of authority, law, and liberty, property, equality, and justice. Philosophers to be studied may include Aristotle, Plato, Augustine, Aquinas, Machiavelli, Hobbes Locke, Rousseau, Hegel, Burke, and Marx.

POLI 325 THE UNITED STATES SINCE 1945 (3 credit hours) [offered every other year] - examines American society, culture, and politics from the end of World War II to the present. Topics covered include life in the 1950s, the war in Vietnam at home and abroad, the civil rights movement, the women's movement, the counterculture of the 1960s, the new conservatism of the 1970s and 1980s, and current issues in the 2000s.

POLI 328 THE UNITED STATES IN WORLD AFFAIRS (3 credit hours) [offered every spring] - studies the content of United States' foreign policy since World War II; containment and communism, the Cold War, détente, impact of Vietnam; contemporary relations with Russia and Eastern Europe, China, the Western alliance and the developing countries; how American foreign policy is made; analysis of arms control, warfare, military technology and deterrence; economic policies, and contemporary issues confronting U.S. foreign policy.

POLI 333 SCOPE AND METHODS OF POLITICAL SCIENCE (3 credit hours) [offered every spring] - explores the various subfields of the field of the discipline, including: American politics, public policy, comparative, and international politics, and political theory. Student will also learn about political science research methods and will learn how to select topics, review literature, collect and analyze data, and write reports. Student attendance at the Midwest Political Science Association meeting is mandatory. Prerequisite for senior internship and senior thesis.
POLI 345 AMERICAN CONSTITUTIONAL LAW: AMERICAN COMMUNITY (3 credit hours) [offered every fall] - analyzes the American constitutional development; the Supreme Court as a political institution; major judicial decisions regarding taxation, commerce, civil rights and civil liberties, federalism, the powers of Congress and the President.

POLI 346 AMERICAN CONSTITUTIONAL LAW: THE BILL OF RIGHTS (3 credit hours) [offered every spring] - examines the Supreme Court decisions concerned with the definition of American rights in the areas of freedom of speech, press, assembly, association and religion, church-state relations, race and sex discrimination, privacy; criminal rights.

POLI 350 LEGAL PROCESS/MOCK TRIAL (3 credit hours) [offered every year] - explores the judicial and trial process in the American legal system. Includes structure and function of courts, rules of evidence, presentation of case materials, and roles of civil and criminal procedures. May be repeated once.

POLI 355 THE PRESIDENCY (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - examines the evolution of office of the Presidency; legislative-executive conflict; powers, duties and roles of modern presidents; conceptions of the office; the institutionalized presidency and the process.

POLI 365 THE CONGRESS (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - studies Congress and the formation of public policy; legislative-executive relations; the legislative process; Congressional politics, parties and Congress, Congress and committees, organization and behavior; home style, the influence of pressure groups, political representation, Congress and the conduct of foreign policy.

POLI 370 SOCIAL REFORM AND THE WELFARE STATE (3 credit hours) [offered every other year] - studies the welfare state and the reform movement. The course examines the Progressive Era, the New Deal, the Great Society, and the conservative backlash using appropriate public policy tools. Specific issues such as Medicare, welfare, civil rights, and public housing will be scrutinized.

POLI 375 AMERICAN PUBLIC POLICY (3 credit hours) [offered every other year] - examines the contents, institutions and process of public policy formation in the United States through case studies of major issue areas.

POLI 400 POLICY TOPICS (3 credit hours) [offered every other year] - examines a specific policy problem. Themes for the course will change from year to year but might include policy for the aging, disabled, housing, defense, the environment, health care. The course is offered in seminar format.

POLI 493 DIRECTED FOREIGN TRAVEL (1-6 credit hours) [offered when there is sufficient student demand and faculty members are available] - offers students the opportunity to research topics generated through directed foreign travel; credit by special arrangement with the chairperson of the department.

POLI 494 TOPICS IN POLITICAL SCIENCE (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - is a title given to a course which covers specific themes, practices, and subject content not currently taught in the curriculum. This course is directed primarily to student majoring in the subject area and could be used to complete major requirements. The course will provide an in-depth study of a specific topic. Prerequisites will vary.

POLI 495 DIRECTED STUDY (1-3 credit hours) [offered when there is sufficient student demand and faculty members are available] - is an intensive directed study and research in any of the sub-fields of political science. No more than six hours of directed study may be taken.
Prerequisite: consent of the instructor.

POLI 496 INDEPENDENT STUDY (1-3 credit hours) [offered when there is sufficient student demand and faculty members are available] - allows students to select their own topic of investigation and determine their own way of pursuing and reporting work. A faculty advisor serves as resource person. Students provide goals, materials, and criteria for evaluation. Prerequisite: permission of department chair.

POLI 497 SENIOR THESIS (3 credit hours) [offered every semester] - is an independent research experience which requires investigation of a political question using appropriate methodologies. The thesis will require a proposal with outline and bibliography, regular meetings with advisor, and a formal presentation of the completed project.

POLI 498 WASHINGTON INTERNSHIP PROGRAM (6-15 credit hours) [offered every semester] - allows students selected for this program to spend a portion or all of one semester in Washington, D.C. The intern carries out such duties as are assigned by the Washington staff. A research project based on the internship is required and, normally, a journal.

POLI 499 POLITICAL SCIENCE INTERNSHIP (3-15 credit hours) [offered when there is sufficient student demand and faculty members are available] - offers students who meet the requirements an opportunity to apply the theories which they have learned and to test their skills in real world settings. Prerequisite: consent of the instructor.

PSYCHOLOGY (PSYC)

PSYC 102 BURN-OUT PREVENTION FOR PROFESSIONALS (1 credit hour) [offered when there is sufficient student demand and faculty members are available] - provides an experiential course designed to help the future professional become aware of personal and environmental factors involved in professional burnout. Individual and interpersonal coping strategies, existing social support systems, individual and workplace values and demands, conflict resolution strategies, and stress management skills are explored. Prerequisite: Consent of the instructor.

PSYC 111 GENERAL PSYCHOLOGY (3 credit hours) [offered every semester] - introduces students to the scientific study of human behavior and mental processes. Emphasis is placed on the biophysiological and psychosocial processes underlying a broad range of topics such as: perception, learning, memory, life-span development, cognition and language, motivation, emotion, personality, social behavior, and psychopathology, in addition to brief introductions to major divisions and schools of thought in psychology and general research methodology. (IAI Course # S6 900)

PSYC 211 INTRODUCTION TO CHEMICAL DEPENDENCY (3 credit hours) [offered every fall] - provides a broad overview of the different licit and illicit drugs currently used in American society. The basic biological mechanisms underlying the effects of these drugs as well as the legal, psychological, social, and economic implications of substance use, abuse, and dependence are explored. Treatment modalities including "intervention" and self-help groups are examined. Prerequisite: PSYC 111.

PSYC 212 INTRODUCTION TO SPORT PSYCHOLOGY (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - sport psychology is a sub-discipline that involves the application of many of the fundamental principles of psychology toward the enhancement of individual and team performance in sport and exercise. These strategies and practices are also applicable to life in general. Among the factors addressed are motivation, confidence, role modeling, personality, aspects of the social environment, and cognitive skill mastery. Understanding and simple supervised
application of the basic principles are emphasized. Prerequisite: PSYC 111.

PSYC 221 GROUP DYNAMICS (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - introduces students to the basics of group interactions and group treatment. A didactic/experiential style is utilized to assist students in understanding both growth and injury, which exist in the group setting. Prerequisite: PSYC 111.

PSYC 240 LIFE-SPAN DEVELOPMENT (3 credit hours) [offered every semester] - helps students understand human development as dynamic processes that take place in the social, societal, and cultural contexts. Developmental continuities, changes, and mechanisms to account for the development in biophysiological, cognitive, emotional, and psychosocial domains across the human life-span will be discussed. The course also introduces students to the applications of the life-span developmental approach in the helping professions. Prerequisite: PSYC 111. (IAI Course # EED 903, PSY 904, SED 903)

PSYC 245 WOMEN IN CONTEMPORARY SOCIETY (3 credit hours) [offered every spring] - acquaints students with changing psychosexual, social, economic, and political roles of women in contemporary society. The division of roles between men and women offers a significant point of reference for examining the history of women’s liberation movement. Prerequisite: PSYC 111, SOCI 111, or consent of the instructor.

PSYC 249 TOPICS (1-4 credit hours) [offered when there is sufficient student demand and faculty members are available] is a title given to a course which covers broad themes, practices, and subject content not currently taught in the curriculum. This course is directed primarily at non-majors and may be used for general education where approved. Generally does not have prerequisites.

PSYC 301 INTRODUCTION TO CRISIS INTERVENTION (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - acquaints students with knowledge and strategies utilized in crisis intervention. Students will be considered for participation on a crisis line. Prerequisite: Consent of instructor.

PSYC 311 SOCIAL PSYCHOLOGY (3 credit hours) [offered every fall] - familiarizes students with the scientific study of how people think about, influence, and relate to one another. This course focuses on the fundamental principles of social thinking and social cognition, social influence and group dynamics, and social relations, with society and culture serving as the contexts. Opportunities are given for students to reflect upon how these social principles are at work in their daily life. Prerequisite: PSYC 111 or SOCI 111. (IAI Course # PSY 908, S8 900)

PSYC 313 INDUSTRIAL/ORGANIZATIONAL PSYCHOLOGY (3 credit hours) [offered every year] - acquaints students with psychological principles as applied in
organizational settings. Discussion topics include development of human resources, leadership and decision-making styles, organizational dynamics, working conditions, and human factors. Prerequisite: PSYC 111. (IAI Course # PSY 906)

PSYC 331 PSYCHOLOGICAL TESTING (3 credit hours) [offered every other fall] - introduces students to the origin, principal characteristics, function, and use of psychological tests. Emphasis is placed on principles and theories of psychological measurement. Prerequisite: PSYC 111.

PSYC 332 THEORIES OF LEARNING (3 credit hours) [offered every fall] - surveys the theories and current research in animal and human learning. Attention is given to classical, operant, cognitive, evolutionary, developmental, and biological explanations of behavior and behavior change. A strong focus is on the application of these fundamentals to real life situations. Prerequisite: PSYC 111.

PSYC 333 RESEARCH METHODS IN THE BEHAVIORAL SCIENCES I (4 credit hours) [offered every fall] - serves as a capstone course for the psychology major. This course focuses on the experimental approach. Students will learn the rationale of the experimental method and the ethical principles in doing research. Students will be guided step-by-step through student-originated small-scale experiments from defining research questions to writing scientific reports in the APA style. There is a lab session in the course. Prerequisites: MATH 105 or MATH 175 (recommended).

PSYC 334 RESEARCH METHODS IN THE BEHAVIORAL SCIENCES II (2 credit hours) [offered every spring] - continues to acquaint students with research methods in addition to the experimental method. The focus is on the survey, the case history, and the correlational approaches. Prerequisite: PSYC 333.

PSYC 341 CHILD DEVELOPMENT (3 credit hours) [offered every spring] - discusses developmental changes and mechanisms in the physical, cognitive, moral, emotional, personality, and social aspects during the period from conception to late childhood/early adolescence. It acquaints students with the research approaches and developmental designs practiced by developmental psychologists. It also encourages students to apply major research findings to parenting and education. Prerequisite: PSYC 111 and PSYC 240 or consent of the instructor. (IAI Course # PSY 901)

PSYC 342 ADOLESCENT DEVELOPMENT (3 credit hours) [offered every other fall] - examines the developmental stage of adolescence as a continuation from late childhood toward emerging adulthood. It discusses physical, cognitive, moral, emotional, social, and career developments that take place during this period and various influencing factors. This course also alerts the students to some of the major problems that adolescents encounter today, such as violence, substance abuse, teenage pregnancy, and stress. It encourages students to work out solutions. Prerequisites: PSYC 111 and PSYC 240 or consent of the instructor. (IAI Course # PSY 902)

PSYC 343 ADULT DEVELOPMENT AND AGING (3 credit hours) [offered every other fall] - covers the developmental period from adulthood to old age. The processes of adult development and aging will be examined from biological, psychosocial, and sociological perspectives. Changes in the domains of physical health, cognitive functioning, emotional needs, work and leisure, social bonds, family functioning, finances and life styles, the issues of caregiving/healthcare and death and dying will be discussed. Prerequisite: PSYC 111 and PSYC 240 or consent of the instructor. (IAI Course # PSY 903)

PSYC 350 PERSONALITY (3 credit hours) [offered every spring] - presents a systematic overview of the major personality theories. Emphasis is placed on the structure and function
of personality theory, methods of personality research, and comparison of the various theories. Psychodynamic, trait, humanistic/existential, cognitive and behavioral explanations are included. Prerequisite: PSYC 111.

PSYC 376 INTRODUCTION TO COUNSELING AND PSYCHOTHERAPY (3 credit hours) [offered every fall] - is concerned with the psychology of the person. It provides for the study of the goals, methods, and procedures of a variety of theoretical viewpoints basic to counseling. In addition to the acquisition of skills necessary for counseling, the course allows for personal growth and understanding. The goal of the course is to provide students with an exposure to various schools of thought so that a synthesis can be made to allow for beginning functioning in the counseling role. Prerequisite: PSYC 111.

PSYC 401 READINGS IN GERONTOLOGY/GERIATRICS (3 credit hours) [offered every other spring] – is a research-based course for the Gerontology Minor degree. Selected readings that reflect the developments in the field of gerontology and geriatrics will be discussed. Students are required to participate in discussions and to write a series of papers about the theories in gerontology and the applications and services in general and geriatric healthcare for mature adults.

PSYC 453 HISTORY AND SYSTEMS OF PSYCHOLOGY (3 credit hours) [offered every spring] - serves as a capstone course for the psychology major. Through the completion and presentation of a scholarly paper, the course acquaints students with the origin and development of the science of psychology. Emphasis is given to the major systems of psychology. Prerequisite: senior standing as a psychology major.

PSYC 494 TOPICS IN PSYCHOLOGY [offered when there is sufficient student demand and faculty members are available] - is a title given to a course which covers specific themes, practices, and subject content not currently taught in the curriculum. This course is directed primarily to student majoring in the subject area and could be used to complete major requirements. The course will provide an in-depth study of a specific topic. Prerequisites will vary.

PSYC 495 DIRECTED STUDY (1-3 credit hours) [offered every semester]
PSYC 496 INDEPENDENT STUDY (1-3 credit hours) [offered every semester]
PSYC 497 INTERNSHIP IN PSYCHOLOGY (1-15 credit hours) [offered every semester] - offers students who meet the requirements an opportunity to apply the theories which they have learned and to test their skills in real world settings. Prerequisite: Consent of instructor.

RADIATION THERAPY (RADT)

RADT 101 INTRODUCTION TO THE RADIOLOGIC SCIENCES (1 credit hour) [offered every semester] - provides an overview of the professions of radiography and radiation therapy. Emphasis is placed on educational preparation, career planning and professional development in the radiologic sciences. Clinical observations in health care settings are included.

RADT 102 MEDICAL TERMINOLOGY (1 credit hour) [offered every fall] – explores a body systems approach to the language of medicine and the radiologic sciences. Course emphasizes clinical applications and use of terms in interpretation of orders and reports.

RADT 305 RADIATION THERAPY CLINICAL EXPERIENCE I (3 credit hours) [offered every fall] - provides students with a clinical understanding of the functioning of the Radiation Oncology Department while observing therapist/patient interaction.

RADT 306 RADIATION THERAPY CLINICAL EXPERIENCE II (4 credit hours)
[offered every spring] - provides students with insight into treatment procedures, calculations, and treatment devices used on cancer patients.

RADT 310 INTRODUCTION TO CLINICAL RADIOLOGIC SCIENCE (2 credit hours) [offered every fall] - provides an overview of radiography and radiation therapy and their role in health care delivery. The course outlines the structure of the health system and roles of various departments and health professionals. The course also includes an introduction to the topics of equipment and procedures, radiation safety, professionalization, ethics and law and the history of the radiologic sciences. Taught in online format.

RADT 312 PRINCIPLES AND PRACTICES OF RADIATION THERAPY I (1 credit hour) [offered every fall] - provides students with an introduction to the unifying themes that underlie Radiation Therapy as a treatment modality and patient care.

RADT 330 METHODS OF PATIENT CARE (3 credit hours) [offered every fall] - This course provides the student with the basic concepts of patient care, including consideration for the physical, developmental and psychological needs of the patient and family. Routine and emergency patient care procedures are described as well as: infection control, patient assessment, patient education, venipuncture and contrast injection, pharmacology and interacting with the terminally ill. The course includes clinical demonstration of patient care skills. This course is delivered in online format.

RADT 335 ETHICS AND LAW IN THE RADIOLOGIC SCIENCES (2 credit hours) [offered every spring] - provides students with an understanding of the legal and ethical responsibilities of professional practice. Covered topics include ethical behavior, issues and dilemmas, interacting with the terminally ill, scope of practice, elements of malpractice and risk management, health care distribution, student rights, and future challenges. Taught in online format.

RADT 341 ONCOLOGY I (2 credit hours) [offered every spring] - provides students with the fundamentals of clinical applications in Radiation Oncology according to malignant and benign conditions by individual tumor sites by pathological conditions.

RADT 350 RADIOLOGIC PHYSICS I (2 credit hours) [offered every fall] - explores the properties and medical applications of radiation including the electromagnetic spectrum, radioactivity and half life, x-ray production, effects of technique selection on x-ray exposure, interaction of radiation with matter, and design of radiographic equipment. Emphasis is placed on clinical application of concepts in the safe operation of high voltage radiologic equipment. Taught in online format.

RADT 356 TREATMENT PLANNING I (2 credit hours) [offered every spring] - discusses factors that influence and govern clinical planning of patient treatments. Includes treatment machines, isodose descriptions, patient contouring, radiobiologic considerations, dosimetric calculations, compensation, brachytherapy, and clinical applications of treatment teams.

RADT 357 RADIATION THERAPY PHYSICS I (2 credit hours) [offered every spring] - designed to review and expand contents and theories in the radiation physics course. Topics expanded upon are: detailed analysis of the structure of matter, properties of radiation, nuclear transformation, treatment units of external radiation, measurement and quality of ionizing radiation produced, absorbed dose measurement and distribution, and scatter analysis.

RADT 360 RADIOBIOLOGY AND RADIATION PROTECTION (2 credit hours) [offered every spring] - is an overview of the interaction of radiation with living systems, effects on organisms, and factors affecting biological responses. Covered topics include early and late effects of radiation exposure and epidemiological studies of radiation and acute
radiation syndromes. Included is content which provides the student with an overview of the principles and practices of radiation protection for the patient, personnel, and general public. Taught in online format.

RADT 370 RADIOGRAPHIC IMAGING (3 credit hours) [offered every fall] – provides the student with the knowledge of x-ray generation and the prime factors that govern and influence the production of x-rays, radiographic film, sensitometry, intensifying screens automatic processing and processor quality control and artifact identification. This course includes demonstrations and laboratory activities to reinforce concepts. Taught in online format.

RADT 380 RADIOLOGIC PROCEDURES (3 credit hours) [offered every fall] - explores anatomy review, positioning demonstration, and presentation of radiographs of the human body, so that the student learns radiographic examinations of the chest, abdomen, upper extremity, digestive system and urinary system. Course promotes student clinical competence in all assigned radiographic procedures and related anatomical and positioning theory and concepts. Taught in online format.

RADT 381 SIMULATOR PROCEDURES I (1 credit hour) [offered every spring] - provides students with a concrete set of procedures with which to “simulate” the treatment setup before treatment begins.

RADT 405 RADIATION THERAPY CLINICAL EXPERIENCE III (4 credit hours) [offered every fall] - provides the student with additional clinical insight into radiation therapy and is a continuation of RADT 306.

RADT 406 RADIATION THERAPY CLINICAL EXPERIENCE IV (4 credit hours) [offered every spring] - provides the student with a summation of clinical experiences RADT 305, 306, 405 while demonstrating communication skills, professionalism and synthesis of treatment procedures and patient setups.

RADT 412 PRINCIPLES and PRACTICES OF RADIATION THERAPY II (2 credit hours) [offered every fall] - a continuation of RADT 312. Topics covered include treatment machines, radiation safety, radiotherapy, and surgery, radiobiology and calculations.

RADT 416 RADIATION THERAPY SENIOR SEMINAR (1 credit hour) [offered every spring] - includes independent study, case studies, papers, professional journal review, journal writing, field trips and attendance at educational seminars and tournaments. Emphasizes the synthesis of information from across the curriculum, the development of communication skills and professionalization.

RADT 420 SECTIONAL ANATOMY (2 credit hours) [offered every summer] - presents anatomy from a three dimensional perspective, emphasizing the location and relative position of body structures. A body section approach to transverse, sagittal, and coronal anatomy enhances the student’s understanding of gross anatomy and patient positioning. The course provides clinical application of information to the cross sectional images from Computed Tomography and Magnetic Resonance Imaging is used.

RADT 441 ONCOLOGY II (2 credit hours) [offered every fall] - is a continuation of the RADT 341 ONCOLOGY I course. Oncology topics covered are skin cancers, central nervous system, head, and neck primaries, leukemia, Hodgkin’s and non-Hodgkin’s, lung, GI/GU, reproductive and other related topics.

RADT 442 ONCOLOGY III (2 credit hours) [offered every spring] - is a continuation of RADT 441. Pathological oncology topics to be covered are tumors of the GI and GU tracts, reproductive organs for male and female, and other related topics.

RADT 450 QUALITY MANAGEMENT (2 credit hours) [offered every spring] -
establishes a protocol for a quality management program that incorporates all operations and functions of a radiation therapy facility/service. Comprehensive nature of quality management will be discussed within the context of professional standards of care.

RADT 456 TREATMENT PLANNING II (2 credit hours) [offered every fall] - a continuation of RADT 356. Optimal treatment planning is emphasized.

RADT 457 RADIATION THERAPY PHYSICS II (2 credit hours) [offered every fall] - a continuation of RADT 357.

RADT 461 INTRO TO HEALTH SERVICES ADMINISTRATION I (1 credit hour) [offered every fall] - provides the student with a comprehensive overview of the history, development and features of the U.S. health care delivery system.

RADT 462 INTRO TO HEALTH SERVICES ADMINISTRATION II (1 credit hour) [offered every spring] - provides the student with leadership, business and financial components of a health care organization.

RADT 470 COMPUTED TOMOGRAPHY AND DIGITAL IMAGING (2 credit hours) [offered every fall] - This is an independent study course which covers advanced imaging equipment and theory related to digital radiographic imaging, computers and computer applications in medical imaging and radiation therapy. Topics include computer science, picture archiving and communication systems (PACS), CT machine/CT simulator components, image characteristics, image reconstruction and spiral computed tomography.

RADT 481 SIMULATOR PROCEDURES II (1 credit hour) [offered every fall] - is a continuation of RADT 380 with a look at more complex treatment positioning. Students should be able to independently perform basic treatment positioning. Body sites to be covered are Hodgkin’s, pelvis, and the breast.

RADT 482 SIMULATOR PROCEDURES III (1 credit hour) [offered every spring] - is a continuation of RADT 481. At the completion of this course, the student must demonstrate proficiency in treatment setups and positioning in the simulator room with phantom and actual patients. A review of all body sites covered in the previous simulator clinic is accomplished.

RADT 490 RADIATION THERAPY REGISTRY REVIEW (3 credit hours) [offered every spring] - is designed to prepare the student for certification. Areas pertinent to the ARRT examination will be covered. Mock exams and completion of the radiation therapy workbook is required. Successful completion of four mock registry examinations is a prerequisite for graduation.

RADIOGRAPHY (RADG)

RADG 101 INTRODUCTION TO THE RADIOLOGIC SCIENCES (1 credit hour) [offered every semester] - provides an overview of the professions of radiography and radiation therapy. Emphasis is placed on educational preparation, career planning and professional development in the radiologic sciences. Clinical observations in health care settings are included.

RADG 301 RADIOGRAPHY CLINICAL ORIENTATION (2 credit hours) [offered every summer]-provides students an orientation to the imaging department and clinical environment. The student will participate in clinical observation in assigned radiographic areas within the Medical Imaging Department to gain an understanding of the functioning of the department and radiographic process. The student will also rotate through non-radiographic areas in the department to integrate knowledge and skills acquired in the co-
requisite courses.

RADG 305 RADIOGRAPHY CLINICAL EXPERIENCE I (3 credit hours) [offered every fall] – allows the student to progress through a series of clinical rotation assignments which reinforce and provide opportunities for observation, assistance and participation in radiographic procedures covered in other courses. Students will complete 300 hours of clinical experience in general and fluoroscopic radiographic procedures under direct supervision of a radiographer. The student will begin documenting competency in radiographic and patient care procedures.

RADG 307 RADIOGRAPHY CLINICAL EXPERIENCE II (3 credit hours) [offered every spring] – continuation of RADG 305. Provides clinical rotation assignments in which reinforce and provide opportunities for observation, assistance and participation in radiographic procedures. Emphasis is placed on application of concepts in the actual performance of procedures.

RADG 310 INTRODUCTION TO CLINICAL RADIOLOGIC SCIENCE (2 credit hours) [offered every summer] - provides an overview of radiography and radiation therapy and their role in health care delivery. The course outlines the structure of the health system and roles of various departments and health professionals. The course also includes an introduction to the topics of equipment and procedures, radiation safety, professionalization, ethics and law and the history of the radiologic sciences.

RADG 320 MEDICAL TERMINOLOGY (1 credit hour) [offered every summer] - explores a body systems approach to the language of medicine and the radiologic sciences. Course emphasizes clinical applications and use of terms in interpretation of orders and reports.

RADG 331 METHODS OF PATIENT CARE  (3 credit hours) [offered every summer] - This course provides the student with the basic concepts of patient care, including consideration for the physical, developmental and psychological needs of the patient and family. The course covers routine and emergency patient care procedures including: basic EKG, infection control, patient assessment, patient education, venipuncuture, contrast injection, introduction to pharmacology and interacting with the terminally ill. The course includes certification in CPR and clinical demonstration of patient care skills.

RADG 335 ETHICS AND LAW IN THE RADIOLOGIC SCIENCES (2 credit hours) [offered every spring] - provides students with an understanding of the legal and ethical responsibilities of professional practice. Covered topics include ethical behavior, issues and dilemmas, interacting with the terminally ill, scope of practice, elements of malpractice and risk management, health care distribution, student rights, and future challenges.

RADG 350 RADIATION PHYSICS I (2 credit hours) [offered every spring] - explores the properties and medical applications of radiation including the electromagnetic spectrum, radioactivity and half life, x-ray production, effects of technique selection on x-ray exposure, interaction of radiation with matter, and design of radiographic equipment. Emphasis is placed on clinical application of concepts in the safe operation of high voltage radiologic equipment.

RADG 360 RADIŒBIOLÔGY AND RADIATION PROTECTION (2 credit hours) [offered every fall] - is an overview of the interaction of radiation with living systems, effects on organisms, and factors affecting biological responses. Covered topics include early and late effects of radiation exposure and epidemiological studies of radiation and acute radiation syndromes. Included is content which provides the student with an overview of the principles and practices of radiation protection for the patient, personnel, and general public.
RADG 371 RADIOGRAPHIC IMAGING I (3 credit hours) [offered every fall] –
provides the student with the knowledge of x-ray generation and the prime factors that
 govern and influence the production of x-rays, radiographic film, sensitometry, intensifying
 screens automatic processing and processor quality control and artifact identification. This
course includes demonstrations and laboratory activities to reinforce concepts.

RADG 372 RADIOGRAPHIC IMAGING II (3 credit hours) [offered every spring] – this
course is a continuation of RADG 371. It is designed to develop the student’s understanding
of radiographic quality, the photographic and geometric properties which control and
influence radiographic quality, technical factor selection systems including automatic exposure
control and accessory radiographic devices. Problem solving and critical thinking skills will be
emphasized in technique formulations and exposure calculations. Fluoroscopic and digital
imaging is also included in the topics covered.

RADG 380 RADIOGRAPHIC PROCEDURES I (5 credit hours) [offered every fall] –
explains anatomy review, positioning demonstration, and presentation of radiographs of the
human body, so that the student learns radiographic examinations of the chest, abdomen,
upper extremity, digestive system and urinary system. Course promotes student clinical
competence in all assigned radiographic procedures and related anatomical and positioning
theory and concepts.

RADG 381 RADIOGRAPHIC PROCEDURES II (5 credit hours) [offered every spring] –
is a continuation of RADG 380 and includes the lower extremity, spine, boney thorax,
cranium, facial bones and sinuses. Students perform all routine radiographic examinations
and are expected to synthesize knowledge of radiation protection and exposure technique in
the production of optimal quality diagnostic radiographs.

RADG 407 RADIOGRAPHY CLINICAL EXPERIENCE III (3 credit hours) [offered
every summer] – is a continuation of the junior level RADG 307. The course emphasizes the
continued development of clinical competency and professional development. Students will
complete 300 hours of clinical experience in general radiographic and fluoroscopic procedures
and trauma radiography under direct/indirect supervision. Students are also provided and
opportunity to observe in some of the advanced imaging modality departments.

RADG 408 RADIOGRAPHY CLINICAL EXPERIENCE IV (4 credit hours) [offered
every fall] – is a continuation of RADG 407. It emphasizes the continued development of
clinical competency and professional development. Students will complete 400 hours of
clinical experience in general radiographic and fluoroscopic procedures and trauma
radiography under direct/indirect supervision. Students are also provided and opportunity to
observe in some of the advanced imaging modality departments.

RADG 409 RADIOGRAPHY CLINICAL EXPERIENCE V (4 credit hours) [offered
every spring] – is a continuation of RADG 408. It provides opportunities for final student
learning outcomes assessment. The experience requires successful completion of final clinical
competencies in all major areas of radiography including critical thinking and problem-
solving. Emphasis is on continued professional development and proficient performance of
all radiographic procedures with opportunity for continued exploration of advanced imaging
modalities.

RADG 410 RADIOGRAPHIC CRITIQUE I (2 credit hours) [offered every fall] – allows
students to integrate concepts learned in previous course work to critique the diagnostic
quality of radiographs at the viewbox. Emphasis is placed on critical thinking, synthesis of
information from across the curriculum and the application of theory in practice.

RADG 411 RADIOGRAPHIC CRITIQUE II (2 credit hours) [offered every spring] –

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continuation of Critique I covering radiographic critique of the spine, thorax, cranium and facial bones.

RADG 421 SECTIONAL ANATOMY (2 credit hours) [offered every summer] - presents anatomy from a three dimensional perspective, emphasizing the location and relative position of body structures. A body section approach to transverse, sagittal, and coronal anatomy enhances the student’s understanding of gross anatomy and patient positioning. The course provides clinical application of information to the cross sectional images from Computed Tomography and Magnetic Resonance Imaging is used.

RADG 430 PHARMACOLOGY (2 credit hours) [offered every spring] - explores the role of radiographics in the administration of contrast media and related medications. Topics include principles of pharmacology, biopharmaceutics and pharmacokinetics, pharmacodynamics, classification, chemistry and pharmacology of contrast agents, various routes of administration, infection control and pharmacology of emergency medications.

RADG 440 RADIOGRAPHIC PATHOLOGY I (2 credit hours) [offered every fall] - explores a body systems approach to the use of medical imaging in the demonstration of disease processes. Included are the respiratory, skeletal, gastrointestinal and urinary systems. Procedural and patient care considerations relative to pathology are emphasized. Radiographs and special imaging studies are reviewed.

RADG 441 RADIOGRAPHIC PATHOLOGY II (2 credit hours) [offered every summer] - is a continuation of RADG 440, covering pathology of the following body systems: cardiovascular, nervous, hematopoetic system, endocrine, reproductive, and miscellaneous disorders.

RADG 450 QUALITY MANAGEMENT (2 credit hours) [offered every fall] - covers the continuous quality improvement programs and the application of quality management concepts in diagnostic radiology. Included are quality control and assurance for darkroom processors, silver recovery as well as radiographic, ancillary, fluoroscopic and advanced imaging equipment.

RADG 460 HEALTH CARE AND RADIOLOGY ADMINISTRATION I (1 credit hour) [offered every fall] - provides a comprehensive overview of history, development, and features of the US health care delivery system. Focuses on forces and concepts driving the system and how they will effect the future of the industry.

RADG 461 HEALTH CARE AND RADIOLOGY ADMINISTRATION II (1 credit hour) [offered every spring] - continuation from RADG 460. Topics include quality of care, hospital administration, and radiology department management.

RADG 481 SPECIAL PROCEDURES (3 credit hours) [offered every summer] - presents the advanced radiographic, fluoroscopic and invasive procedures. Patient care, procedural protocol, equipment and accessories used are emphasized. Included are the following topics: trauma radiography, pediatric and geriatric radiography, and special procedures.

RADG 491 RADIOGRAPHY REGISTRY REVIEW (4 credit hours) [offered every spring] - offers a review of the content areas of the ARRT examination to prepare the student for certification, and to synthesize information from across the curriculum. Course includes developmental testing and simulated registry examinations. Successful completion of a simulated registry examination is a prerequisite to graduation.
RECREATION, SPORT, AND TOURISM MANAGEMENT (RADM)

RADM 100 INTRODUCTION TO RECREATION AND LEISURE SERVICE DELIVERY SYSTEMS (3 credit hours) [offered every semester] - identifies practices and philosophies in recreation theory and examines historical foundations and development of leisure and recreation in light of economic, political, and social change. This course explores basic concepts of recreation, leisure, work, and play and the role these concepts have in the delivery of recreation and leisure services. Emphasis is on professional organizations, ethics and development of a professional philosophy of recreation with a focus on leisure service delivery systems in areas of public, private, commercial, not-for-profit and therapeutic recreation settings. This course involves a minimum of 10 or more hours fieldwork experiences.

RADM 103 WELLNESS AND LIFESTYLE SATISFACTION (3 credit hours) [offered once per year] - provides information to enable students to make more informed decisions concerning their holistic health behaviors. Emphasis is on mental, spiritual, physical, nutritional, emotional and social health environments. Different models of holistic health are examined. Health issues in areas of substance abuse and risk behaviors are examined. The course promotes and understanding of the significance of play, recreation and leisure in contemporary society are to holistic health across the lifespan. The course provides students with an understanding of how the wise use of leisure choices of recreation activities can make a significant difference in wellness and satisfaction in the lives of others. This course involves a minimum of 10 or more hours fieldwork experience.

RADM 110 INCLUSION FOR LEISURE SERVICES (3 credit hours) [offered every semester] - examines leisure and recreation services with a focus on: access and inclusion of people with disabilities, multiculturalism and diversity issues, barriers to participation, disabling conditions, program development, service delivery, and legislation. Emphasis is on the impact of leisure service delivery systems on a wide diversity of populations. The course examines how agencies address inclusiveness within the operation of programs and services. This course involves a minimum of 10 or more hours fieldwork experience.

RADM 115 GOLF (1 credit hour) [offered every spring] - provides basic rules and techniques, opportunities for improving personal skill, in-depth understanding of golf as a student and prospective teacher.

RADM 120 FITNESS (1 credit hour) [offered every fall] - provides basic rules and techniques, opportunities for improving personal skill, and in-depth understanding of different area fitness activities as a student and prospective teacher.

RADM 125 TENNIS (1 credit hour) [offered every fall] - provides basic rules and techniques, opportunities for improving personal skill, and in depth understanding of tennis as a student and prospective teacher.

RADM 150 RACQUETBALL (1 credit hour) [offered every other year] - provides basic rules and techniques, opportunities for improving personal skill, and in depth understanding of racquetball as a student and prospective teacher.

RADM 180 SPORT OFFICIATING (2 credit hours) [offered every other year] - offers students interested in officiating sports at all levels a practical guide in the techniques, skills, and psychology of officiating. At student option, the course provides opportunity for state officiating certification in basketball, baseball, football, soccer, softball, and volleyball.

RADM 194 TOPICS IN SPORT COACHING AND ACTIVITY COURSES (1-3 credit
hours) is a title given to sport, recreation, and tourism courses which cover broad themes, practices, and subject content. Courses are directed primarily at non-majors.

RADM 205 COMMERCIAL RECREATION ENTERPRISES (3 credit hours) – is a survey course which provides students with a broad spectrum of commercial recreation operations. Focus is on business operations, marketing and finance in the following sectors: sporting goods, retail entertainment centers, country clubs, health clubs, tennis and golf operations, and small business operations. This course examines the roles and interrelationships of delivery systems in the commercial sector of the leisure service industry. Students gain experience through fieldwork and volunteer services. This course involves a minimum of 10 or more hours of fieldwork experiences.

RADM 210 FOUNDATIONS OF THERAPEUTIC RECREATION (3 credit hours) – covers therapeutic recreation philosophy, history, concepts, programming, practices, service models, settings, and diagnostic groups with an emphasis on the therapeutic recreation specialist's role in clinical and non-clinical settings. The purpose of the course is to help students develop a working knowledge of therapeutic practices and career opportunities by surveying delivery systems and settings while applying the therapeutic recreation process. This course requires a minimum of 10 or more hours of fieldwork experience. Prerequisites: RADM 100 and RADM 110.

RADM 211 PROGRAM DESIGN AND LEADERSHIP METHODS IN RECREATION SERVICES (3 credit hours) – emphasizes the methods and techniques of program planning, leadership, and implementation of programs in community, commercial, and therapeutic recreation. The focus of this course is on the ability to implement program planning principles, procedures and services to enhance individual, group, and community quality of life. Students will gain practical experience in recreation leadership, assessment of needs, development of outcome-oriented goals and objectives, selection of programs, marketing of programs, implementation of programs, and evaluation of programs. This course involves 10 or more hours of fieldwork experience.

RADM 215 TEAM SPORT (BASKETBALL) (2 credit hours) – prepares the student to coach basketball on all levels of competition. Knowledge of fundamental skills, rules, theory, game strategy, team selection, and organizational techniques will be stressed.

RADM 220 TEAM SPORT (BASEBALL) (2 credit hours) – prepares the student to coach baseball on all levels of competition Knowledge of fundamental skills, rules, theory, game strategy, team selection, and organizational techniques will be stressed.

RADM 230 TEAM SPORT (FOOTBALL) (2 credit hours) – prepares the student to coach football on all levels of competition. Knowledge of fundamental skills, rules, theory, game strategy, team selection, and organizational techniques will be stressed.

RADM 245 TEAM SPORT (VOLLEYBALL) (2 credit hours) – prepares the student to coach volleyball on all levels of competition. Knowledge of fundamental skills, rules, theory, game strategy, team selection, and organizational techniques will be stressed.

RADM 250 RECREATION AND YOUTH DEVELOPMENT (3 credit hours) – examines community factors and forces that influence youth. The course will review service models and approaches that affect positive youth outcomes with an
emphasis on recreation agencies that have developed successful program approaches. This course requires a minimum of 10 or more hours of fieldwork experience.

RADM 290 CARE MANAGEMENT AND PREVENTION OF ATHLETIC INJURIES (3 credit hours) [offered every fall] - covers general first aid and care management of athletic injuries with a primary focus on the prevention of athletic injuries. The course examines specific techniques of recognition, treatment, and rehabilitation of athletic injuries, with focus on men's and women's athletics.

RADM 300 ADVENTURE EDUCATION, ETHICS AND LEADERSHIP (3 credit hours) [offered every other year] - introduces students to the professional field of adventure education. The course will cover experiential activity design and process, adventure leadership techniques, group processing skills, theory and philosophy, programming ethics and methods, and risk management.

RADM 314 TOURISM AND DESTINATION MANAGEMENT (3 credit hours) [offered every other year] - covers the development of tourism and provides a complete overview of the tourism industry. This course explains demographics, global supply and demand and intercultural behavior. This course reviews global issues that have had a major impact on tourism such as economies of scale, effects of 9/11, governmental regulations, and specialized market niches. The course examines current issues affecting the industry and studies different delivery systems. Prerequisite: MGMT 150.

RADM 315 RESORT AND HOSPITALITY MANAGEMENT (3 credit hours) [offered every other year] - provides an extensive overview of the resort and hospitality industry. The focus of this course provides a student with an introduction to facilities, operations and activities of the resort. Emphasis is on club and resort operations, leadership, management systems, marketing, planning and development, food and beverage operations, financial management, and security, safety and risk management. Students will gain a working knowledge of all areas of resort operations. Prerequisite: MGMT 150.

RADM 316 RECREATION AND SPORT FACILITY OPERATIONS MANAGEMENT (3 credit hours) [offered every other year] - provides an overview of the key aspects of sport operations and facilities management. The course is split into four parts: managing resources and planning, sport facility operations management, recreation and event planning, and facility design. The focus of this course is threefold: facilities for fitness and recreation operations, sporting goods operations, college/university and amateur and professional sports operations. In general, this course provides a foundation and knowledge base for students interested in becoming a sport facility manager in areas of fitness, recreation and retail sales. Prerequisite: MGMT 150.

RADM 320 SIGN LANGUAGE (3 credit hours) [offered once per year] - introduces finger spelling and a basic sign vocabulary for communication with the deaf. Both the production and recognition of this manual language will be stressed at a level for those who have never before signed.

RADM 321 ADMINISTRATION OF RECREATION AND LEISURE SERVICES (3 credit hours) [offered every other year] - serves as a basic background in public and commercial recreation administration. Emphasis is on knowledge of principles and procedures of organizational structure, and examination of practices related to leadership and community development. The course focuses on management, understanding group processes, understanding human resource management and supervisory leadership. It presents and overview of principles of budgeting and financial management and agency marketing. Prerequisite: RADM 211.
RADM 323 OUTDOOR RECREATION AND THE ENVIRONMENT (3 credit hours) [offered once per year] - surveys the philosophy, history, and principles underlying the development and management of outdoor recreation resources and programs. The course explores interrelationships between leisure behavior and the natural environment; history and benefits of outdoor recreation; social trends; user impacts and sustainability; government and private delivery systems; and environmental ethics in outdoor recreation management. In addition, the course considers issues of socio-cultural diversity and social justice in relation to outdoor recreation and the natural environment. Various outdoor recreation skills will be presented and practiced. This involves fieldwork experiences. A field trip is required. Prerequisite: RADM 211.

RADM 325 LEGAL FOUNDATIONS AND RISK MANAGEMENT IN RECREATION AND LEISURE SERVICES (3 credit hours) [offered once per year] – This course focuses on understanding risk management and legal issues which govern leisure service delivery systems. The course reviews legal foundations and the legislative process. The course examines contracts and tort law, aspects of negligence, regulatory agents and methods of compliance. In risk management, emphasis is on safety, standard of care, employee rights and how to develop and implement a risk management plan. Prerequisite: RADM 211.

RADM 330 SPORT AND ATHLETIC ADMINISTRATION (2 credit hours) [offered every other year] - offers a thorough examination of the sport and athletic administration field, giving students a comprehensive resource for professional development. The course provides a detailed overview of aspects of sport and athletic administration with regard to philosophical foundations of administrative principles, organizational concepts and ethical and legal aspects of sport management. The course gives a detailed analysis of consumer behavior, sport publicity and sport finance.

RADM 331 PROGRAM PLANNING AND EVALUATION IN THERAPEUTIC RECREATION (3 credit hours) [offered every other year] - examines the process of planning and evaluating comprehensive, specific, and individualized therapeutic recreation programs. Topics include systems theory, models and standards of TR practice, comprehensive and specific program planning, assessment tools and techniques, individualized/treatment planning, program documentation and evaluation, and quality improvement issues. This purpose of this course is to provide students with a learning experience which will enable them to design and evaluate therapeutic recreation programs, in a variety of settings, for individuals with disabling conditions. Students will understand principles of program planning and evaluation, and apply those principles to designing treatment services and achieving outcomes. This course includes 25 hours of fieldwork. Prerequisites: RADM 210 and 211.

RADM 333 PRINCIPLES AND PRACTICES OF INTERVENTIONS IN THERAPEUTIC RECREATION (3 credit hours) [offered every other year] - covers basic concepts, methods and techniques associated with the practice of therapeutic recreation. The purpose of this course is to understand and apply the therapeutic recreation process through intervention and facilitation methods that are critical to helping clients in health and human service settings. Students will learn to use recreation, leisure, play, and therapeutic recreation programs as intervention in the treatment process. This course involves fieldwork experiences. Prerequisites: RADM 210 and 211.

RADM 350 FISCAL AND OPERATIONS MANAGEMENT OF RECREATION AND LEISURE SERVICES (3 credit hours) [offered every fall] – The course examines principles and practices of budgeting methods, fiscal accountability, fiscal policies, purchasing,
inventory control, marketing techniques and strategies. Emphasis is on financial decision making and linking budgetary planning to strategic planning, management of agency resources, and development of long range fiscal business practices. In addition, this course examines aspects of facility operations management to include: maintenance venues, assessment of needs, functional design, and facility planning and evaluation. Prerequisite: RADM 321.

RADM 399 RESEARCH METHODS IN RECREATION (3 credit hours) [offered every fall] - This course orients the student to the language, knowledge and skills for conducting evaluation research among recreation, sport, and tourism services. The course lays out a foundation for evaluation and provides insights on how to approach real-world, action-oriented evaluations. The course has two purposes: 1) to equip students with the ability to develop an evaluative research proposal, and 2) to familiarize students with the research process, data collection, data analysis and reporting. This course involves practical application fieldwork, use of technology and a formal presentation. Prerequisite: MATH 105 with a grade of “C” or higher and completion of RADM 321.

RADM 405 ISSUES AND TRENDS IN THERAPEUTIC RECREATION (3 credit hours) [offered every other year] - explores the current issues and challenges affecting professional practice in therapeutic recreation. A variety of topics will be discussed to familiarize students with best practices and current trends in the professional field. The course includes topics such as certification standards, advocacy, ethics, research, legal aspects, and reimbursement issues. Prerequisites: RADM 210.

RADM 422 SENIOR SEMINAR (3 credit hours) [offered when needed but no less than once per year] - reviews current trends and issues in leisure and recreation service. This is a preparatory course for RADM 498 and students are required to complete 50 hours of field experience. The course emphasizes professional issues, trends and services. Focus is on professional conduct and development, ethics, certification credentialing processes, career development, scholarship and professional advocacy. Prerequisite: Completion of all core RADM 300 professional level courses.

RADM 494 TOPICS IN RECREATION (1-3 credit hours) [offered when there is sufficient student demand and faculty members are available] - is a title given to a course which covers specific themes, practices, and subject content not currently taught in the curriculum. This course is directed primarily for students with an interest in a specific topic area related to the recreation, sport, and tourism management discipline. The course will provide an in-depth study of a specific topic. Prerequisites will vary.

RADM 495 DIRECTED STUDY (1-3 credit hours) [offered when there is sufficient student demand and faculty members are available] - is an intensive directed study and research in any of the sub-fields of Recreation, Sport, and Tourism Management. Prerequisite: permission of department chair.

RADM 496 INDEPENDENT STUDY (1-3 credit hours) [offered when there is sufficient student demand and faculty members are available] - allows students to select their own topic of investigation and determine their own way of pursuing and reporting work. A faculty advisor serves as resource person. Students provide goals, materials, and criteria for evaluation. Prerequisite: permission of department chair.

RADM 498 INTERNSHIP (12-15 credit hours) [offered every semester] - provides a supervised practical experience. During the senior year, and upon completion of the RADM Major, students will spend 40 hours per week for 12 to 15 weeks working in a leisure service setting for the purpose of on-the-job training in the discipline of recreation studies. The student, with the approval of the internship supervisor, selects an agency. Prerequisites:
Completion of all general education requirements, core RADM courses, and RADM specialization track courses. The RADM student must have a minimum of an overall GPA of 2.25 in the major at the time of registration for the internship.

# SOCIAL WORK (SWRK)

**SWRK 116 INTRODUCTION TO SOCIAL WORK** (3 credit hours) [offered every fall] - is designed to provide an introduction to the social work profession, the various work settings and current issues in social welfare. The course also provides an introduction to the generalist social work perspective and to systems theory that includes individuals, families, groups, communities and organizations. Case examples are used that relate to human diversity and social work values such as, empowerment, advocacy and confidentiality. (IAI Course # SW 911)

**SWRK 241 HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT I** (3 credit hours) [offered every fall] - is the first in a sequence of Human Behavior and the Social Environment. Comprehensive attention is given to the systems theory with a specific focus given to larger societal systems, organizations, and communities. The content was selected to provide a sound theoretical base of systems theory for beginning generalist practice. This course will also explore values and ethical principals of the NASW Code of Ethics as they apply to service delivery to diverse populations. Students are encouraged to consider the impact of individuals, groups, families, communities on the environment and the impact of the environment on the individuals, groups, families, communities and organizations.

**SWRK 242 HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT II** (3 credit hours) [offered every spring] - provides a basic understanding of human development from conception through death. The life span approach builds upon social systems theory and the five specific systems that comprise the systems perspective in social work practice: individuals, families, groups, organizations and communities. This course is based upon the philosophy that human behavior is shaped by many interacting biological, psychological, social, and cultural factors. In each life stage, attention is given to the role of social work practice in a variety of agency settings working with individuals, families, groups, organizations and communities, the ethical responsibilities and professional values. Attention is also given to the impact of oppression, and the consequences of gender, socioeconomic status, and minority group membership. Prerequisite: SWRK 116 & 241 or consent of the instructor for non-majors.

**SWRK 306 CHILD WELFARE I** (3 credit hours) [offered every fall] - is designed to provide a comprehensive introduction to the structure and functions of the child welfare system from a social work perspective. The course will focus on the problems and issues in service delivery in areas of dependency, neglect, abuse, foster care, group care and delinquency from the generalist practice perspective. Additionally, students will learn the extent of the problem, effects on children, intervention issues, the social worker’s role in a multidisciplinary team approach, and how to advocate for individuals and families. This course is the first of two specific course requirements for the child welfare certification available for state licensure. Prerequisite: SWRK 241.

**SWRK 307 CHILD WELFARE II** (3 credit hours) [offered every spring] - is designed to provide a comprehensive introduction to child abuse and neglect from a social work perspective. Social workers in all professional work settings must know how to identify child maltreatment and domestic violence. Students will learn the family dynamics and indicators of maltreatment and effective interventions on the micro and macro level. Additionally, students will learn the extent of the problem, effects on children, treatment issues, the social
worker’s role in a multidisciplinary team approach, and how to advocate for individuals and families. This course is the second of two specific course requirements for the child welfare specialist available for state licensure. Students will learn about various practice skills and treatment intervention related to social work with abused/neglected children and their families. Prerequisite: SWRK 306 or consent.

SWRK 314 SOCIAL POLICY I (3 credit hours) [offered every fall] - seeks to provide the student with a frame of reference in understanding the operations, components, environments, and interrelationships of social welfare agencies. In addition, the historical development of social welfare will be examined in an attempt to understand the development of social policy in light of the philosophical and value base of the society in which it develops. This course will also attempt to help the student understand ethical issues in contemporary society and the making of ethical judgments about policy choices in historical eras. Prerequisite: SWRK 241 or consent.

SWRK 315 SOCIAL POLICY II (3 credit hours) [offered every spring] - is designed to provide students with the knowledge base for understanding and analyzing social welfare policies and programs. Special attention will be focused on methods of social policy analysis, how it is made, and the way it is affected by, and affects, larger political and economic forces. The course will examine specific social policies as a means to gain knowledge of the future prospects of the welfare state and their implications for social work practice and the social work values and ethics that influence their outcome. In addition, the course will help students gain an understanding of political processes and prepare them to become legislative and social advocates, lobbyists, and expert advisors to policy makers and administrators. Prerequisite: SWRK 314.

SWRK 320 HEALTH CARE SYSTEMS (3 credit hours) [offered every spring] - is designed to aid students in becoming knowledgeable regarding health care in the United States by looking at the definition and philosophy of health, the health care team, policy issues related to health care, and the organization and delivery of health care service.

SWRK 321 THE LEGAL SYSTEM AND THE HELPING PROFESSION (3 credit hours) [offered every fall] - is designed to provide social work students and other students in helping professions (e.g., psychology, education, nursing and pre-law) in understanding legal systems that deal with such issues as confidentiality, child protection, domestic violence, special education, involuntary commitment and providing key testimony. Students will learn how helping professions play an active role in advocating client protection and social justice.

SWRK 333 SOCIAL WORK RESEARCH (3 credit hours) [offered every spring] – is designed to familiarize the student with the basic concepts and methods of social science research. This course will focus on the application of these concepts and methods to the interpretation and analysis of research represented in the social sciences. This will enable students to become intelligent consumers of research. Students will be responsible for engaging in aspects of an experience in order to orient them to the research process. This course will also examine the ethical values and principles of social work practice used in research. This course meets the requirements for a WI course. Student must be senior status. Prerequisite: MATH 105, SWRK 492, Senior status or instructors consent.

SWRK 363 SOCIAL WORK PRACTICE I (3 credit hours) [offered every fall] - provides an overview of generalist social work as a method and process covering fundamental concepts of social work values, ethics, principles and skills. Generalist social work is presented as a basic helping method used by social workers to assist individuals, families, groups, organizations, and communities to achieve personal and social change. The assignments for this course are also geared to developing critical awareness of self, to increase awareness of individuals,
family, groups and community organization levels of intervention, to develop beginning
assessment skills, and to address cultural and lifestyle diversity issues in implementing
ethically and racially sensitive social work. During this semester, the student will also gain a
better sense of self through exposure to diversity issues and individual, family, group
community and organization settings. This course continues the introduction the NASW
Code of Ethics and the ethical standards relevant to beginning professional practice.
Prerequisite: SWRK 241.

SWRK 364 SOCIAL WORK PRACTICE II (3 credit hours) [offered every spring] - is to
provide students with content and practice skills in generalist practice with families, groups,
communities and organizations. The exposure to leadership in human service organizations,
students become knowledgeable of the skills needed to provide services in accordance with
the Social Work Code of Ethics and the values and laws of society. Attention is given to
theories of organizational structures and their impact on service delivery. A 30-hour
observation experience in a local social service agency is required of the student, special
emphasis is placed on their exposure to ethical social work practice with cultural and lifestyle
diversity with special populations, including women. The observation also provides the
student with opportunities to experience individual, family, group, community and
organization practice, addressing a multicultural society, and the ethical dilemmas in meeting
their needs. Prerequisite: SWRK 116 & 363.

SWRK 366 SOCIAL WORK PRACTICE III (3 credit hours) [offered every fall] - is
designed to provide knowledge and skills for working with communities and organizations.
This course emphasizes the general practice model of assessment, planning, intervention,
evaluation, termination and follow-up and how it applies to macro level social work. Special
attention is given to ethnic-sensitive, integrative, generalist social work practice with women
and other special populations. This course also addresses specific issues and concerns
regarding social work ethics and values that teach effective strategies to help communities and
organizations achieve social change. Prerequisite: SWRK 363 and SWRK 364.

SWRK 424 SOCIAL WORK IN A PLURALISTIC SOCIETY (3 credit hours) [offered
every fall] - provides a generalist social work practice-process framework that delineates
cultural-common and cultural-specific social work principles. The purpose is to offer the
student the opportunity to understand multi-cultural service delivery, relationship protocols
and professional self-disclosure with people of color. It will also explore and develop
resources for individuals, families, groups, communities and organizations, utilizing the
NASW Code of Ethics as the guiding principles for community interaction. Prerequisite:
SWRK 241.

SWRK 492 FIELD INSTRUCTION AND SEMINAR I (5 credit hours) [offered every
fall] - This is the first of two required field work experiences, though students may opt for a
summer block field work placement. The student is required to work 240 clock hours for
each semester for 5 credit hours. Students are engaged in supervised, direct service activities,
providing practice experience in the application of the theory and skills acquired in the
foundation areas. The mechanism for supporting the integration of students’ class and field
learning is the required field work seminar taken concurrently with the field practicum.
Prerequisites: SWRK 242, 315 and SWRK 364.

SWRK 493 FIELD INSTRUCTION AND SEMINAR II (5 credit hours) [offered every
spring] - The basic principles of SWRK 492 are continued. Further integration of knowledge
and values in a supportive yet evaluative agency setting is a primary focus. Major emphasis is
placed on the enhancement of self-awareness and an appreciation of human diversity in the
practice setting. More advanced use of the problem-solving process is required. The research
project is completed and the statistical results and recommendations are presented at the Senior Symposium. Prerequisite: SWRK 492.

SWRK 494 TOPICS IN SOCIAL WORK (1-4 credit hours) [offered when there is sufficient student demand and faculty members are available] - is designed to provide students with specialized courses of interest to the community. It is also designed to make students more aware of current issues and trends in Social Work. Examples of Topics courses would be: Social Work and the Community, Social Work Theories, Social Welfare History, Manhood, and Social Work and Computer Science. Prerequisites: Variable, dependent on the nature of the topic offered.

SWRK 495 READINGS IN SOCIAL WORK (1-3) [offered when there is sufficient student demand and faculty members are available] - This course provides an advanced view of generalist social work as a method and process covering fundamental concepts, values, principals, and skills. Generalist social work is presented as a basic helping method used by social workers to assist individuals, groups, families, organizations, and communities to achieve personal and social change. The assignment for this course is also geared to developing critical awareness of self to increase awareness of micro, mezzo, and macro levels of intervention, to develop beginning assessment skills and to address cultural and lifestyle diversity issues in implementing ethnically and racially sensitive social work. During this semester, the student will also gain a better sense of self by the exposure to diversity issues and mezzo and macro environments. Prerequisite: SWRK 242, 315 & 364.

SWRK 496 INDEPENDENT STUDY IN SOCIAL WORK (1-3 credit hours) [offered when there is sufficient student demand and faculty members are available] - This course provides an opportunity for senior level social work majors to explore advanced levels of generalist social work practice from a research practice and policy perspective. Generalist social work practice is explored from its historical fundamental concepts, values, and principles using current research and practice skills to enhance the student's understanding of the relevance of research to effective practice skills with all levels of intervention. The research assignments are also geared to developing knowledge and skills of specific social work concentration that may enhance resources and services delivering to multicultural populations at risk. Prerequisite: SWRK 242, 315, & 364.

SWRK 497 ASSIGNED RESEARCH IN SOCIAL WORK (1-3 credit hours) [offered when there is sufficient student demand and faculty members are available] - This course is about social research. In simple terms, research is a way of going about finding answers to questions. Social research is a type of research conducted by sociologists, social scientists, and others to seek answers to questions, about the social world. Students already have some notion of what social research entails. Social research is a collection of methods people use systematically to produce knowledge. It is an exciting process of discovery, but it requires persistence, personal integrity, tolerance for ambiguity, interaction with others, and pride to doing quality work. Prerequisite: SWRK 242, 315, & 364.

SWRK 498 FIELD PRACTICUM (1-4 credit hours) [offered when there is sufficient student demand and faculty members are available] - is designed for the student who has completed SWRK 492 and SWRK 493 and wishes further experience in field practice. The course is designed to be less structured than SWRK 492 and SWRK 493. However, close supervision, a journal, process recordings, and a continuous structured contact with staff insures relevance and integration of learning. Prerequisite: SWRK 492 & SWRK 493.
SOCIOLOGY (SOCI)

SOCI 111 PRINCIPLES OF SOCIOLOGY (3 credit hours) [offered every fall] - acquaints students with the study of human societies. The social structures, their development and change, and the social interplay between these patterns and the behavior of individuals and groups are introduced to students. (IAI Course # S7 900)

SOCI 194 TOPICS (1-4 credit hours) [offered when there is sufficient student demand and faculty members are available] is a title given to a course which covers broad themes, practices, and subject content not currently offered in the curriculum. This course is directed primarily at non-majors and may be used for general education where approved. Generally does not have prerequisites.

SOCI 206 CRIME AND DELINQUENCY (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - studies crime and deviant behavior as social phenomena, and the effectiveness of the criminal justice system. Primary emphasis is on the sociology of law and the study of correctional institutions. Prerequisite: SOCI 111 or consent of the instructor.

SOCI 216 MARRIAGE AND FAMILY (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - examines variables that determine and affect the changing quality of marriage and family life in the United States. A general biophysical approach as well as social system theory is utilized. Prerequisite: SOCI 111 or consent of the instructor. (IAI Course # S7 902)

SOCI 241 HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT I - [offered every fall] - is the first in a sequence of Human Behavior and the Social Environment. Comprehensive attention is given to the systems theory with a specific focus given to larger societal systems, organizations, and communities. The content was selected to provide a sound theoretical base of systems theory for beginning generalist practice. This course will also explore values and ethical principals of the NASW Code of Ethics as they apply to service delivery to diverse populations. Students are encouraged to consider the impact of individuals, groups, families, communities on the environment and the impact of the environment on the individuals, groups, families, communities and organizations.

SOCI 242 HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT II - [offered every spring] - provides a basic understanding of human development from conception through death. The life span approach builds upon social systems theory and the five specific systems that comprise the systems perspective in social work practice: individuals, families, groups, organizations and communities. This course is based upon the philosophy that human behavior is shaped by many interacting biological, psychological, social, and cultural factors. In each life stage, attention is given to the role of social work practice in a variety of agency settings working with individuals, families, groups, organizations and communities, the ethical responsibilities and professional values. Attention is also given to the impact of oppression, and the consequences of gender, socioeconomic status, and minority group membership. Prerequisite: SWRK 116 & 241 or consent of the instructor for non-majors

SOCI 245 WOMEN IN CONTEMPORARY SOCIETY (3 credit hours) [offered every spring] - acquaints students with changing psychosexual, social, economic, and political roles of women in contemporary society. The division of roles between men and women offers a significant point of reference for examining the history of women's liberation movement. Prerequisite: PSYC 111, SOCI 111, or consent of the instructor

SOCI 250 INTRODUCTION TO ANTHROPOLOGY (3 credit hours) [offered every spring] - provides an overview of the science of anthropology, looking briefly at physical
anthropology and the evolution of humans, and then turning to the cultural aspects of the human species, examining family and kinship, social control, economic systems, political systems, religion and a number of other areas. (IAI Course # S1 900N)

SOCI 311 SOCIAL PSYCHOLOGY - (3 credit hours) [offered every fall] - familiarizes students with the scientific study of how people think about, influence, and relate to one another. This course focuses on the fundamental principles of social thinking and social cognition, social influence and group dynamics, and social relations, with society and culture serving as the contexts. Opportunities are given for students to reflect upon how these social principles are at work in their daily life. Prerequisite: PSYC 111 or SOCI 111 (IAI Course # PSY 908, S8 900)

THEOLOGY (THEO)

All courses have THEO 101 as a prerequisite unless waived by the department.

THEO 101 INTRODUCTION TO THEOLOGY (3 credit hours) [offered every semester] - introduces theology as an authentic science. Assuming no previous theological background, the class explores the nature of divine revelation and salvation history in light of Scripture, along with fundamental Christian beliefs concerning Christ, the Church, and the Christian Life. The primary goal of this course is to produce awareness and understanding of the Christian faith, as well as some basic skills needed for future course work and investigation of faith and religion. THEO 101 is a prerequisite for all other theology courses unless waived by the Department.

THEO 200 INTRODUCTION TO THE OLD TESTAMENT (3 credit hours) [offered every fall] - surveys the history of Israel and of the formation of the Old Testament, making available the results of modern Old Testament scholarship, and putting the books of the Old Testament into the context of the community of faith from which they came. (IAI Course # H5 901)

THEO 206 CHRISTIANITY AND THE MODERN WORLD (3 credit hours) - explores the issues related to living a Christian life in our contemporary world. Much of western culture is influenced by the Christian tradition, but today there are many cultural forces that make it difficult to live a Christian life in the West. The course is designed to examine how a Christian might respond to contemporary ideological forces and developments in science and technology that call traditional beliefs into question. Special attention will be given to the Roman Catholic/ Franciscan tradition. This online course is restricted to BSN Fast-Track, Health Care Leadership, Management (BS), and Organizational Leadership students.

THEO 210 INTRODUCTION TO THE NEW TESTAMENT (3 credit hours) [offered every spring] - surveys the content, structure, and sociopolitical milieu of the various books of the New Testament in the context of the experience of the Early Church. It aims at providing an understanding of the kerygmatic dynamism within the Early Church. (IAI Course # H5 901)

THEO 220 CHURCH: YESTERDAY AND TODAY (3 credit hours) [offered every year] - surveys the main events and persons of the Christian Tradition, and explores various elements in the Church’s self-understanding from the New Testament to the post-Vatican II era. Emphasis on theological and doctrinal history will encourage students to understand the foundations of current Christian living.

THEO 230 CHRISTIAN MORALITY (3 credit hours) [offered every fall] - studies contemporary moral issues and topics, including commitment, responsibility and quality of life of individuals and communities. Selected areas of concern may include the family,
business, medicine, law, and religion.

THEO 240 CHRISTIAN MARRIAGE (3 credit hours) [offered every spring] - investigates the development and traditions of marriage as well as questions about it, particularly among Christians. It will explore the commitment of persons involved in living a Christian marriage.

THEO 250 CHRISTIAN SOCIAL TEACHING (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - examines the social teaching of the Church as it comes to us through Scripture, papal and episcopal documents and the writings of prominent Catholic and other Christian social thinkers. Attention will be given to the spiritual and temporal mission of the laity. Areas for discussion may include: the dignity of the human person, human work, family, religious liberty, justice, economic development, and international relations.

THEO 260 WORSHIP AND CHRISTIAN LIFE (3 credit hours) [offered every other year] - examines the nature, structure, diversity, and meaning of worship as it is found within the Christian faith. Worship is the central act of the faith through which the life of believers are shaped in their faith. Within the Christian tradition, the forms of worship have often changed to suit the needs of the time. In the other instance, the liturgical life has remained faithful to its ancient roots providing unity and continuity for the life of faith. In this course special attention will be given to the sacraments.

THEO 280 RELIGION IN AMERICA (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - employs a historical perspective in examining the major religious traditions as well as specifically American religious phenomena such as Revivalism. The study of American history requires a consideration of the uniquely religious character of the American experience and of the unique collective experiences of the varied institutional religions and religious movements in America. (IAI Course # H5 905)

THEO 290 WORLD RELIGIONS (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - studies the history, systems of belief, unique characteristics and practices of the major world religions: Judaism, Christianity, Buddhism, Taoism, and Islam. (IAI Course # H5 904N)

THEO 294 TOPICS (1-4 credit hours) [offered when there is sufficient student demand and faculty members are available] is a title given to a course which covers broad themes, practices, and subject content not currently offered in the curriculum. This course is directed primarily at non-majors and may be used for general education where approved. Generally does not have prerequisites.

THEO 305 SECOND VATICAN COUNCIL (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - investigates the event (1962-1965) that renewed contemporary Roman Catholicism. Consideration of key persons, documents, and controversies will illuminate the background necessary for understanding the challenges facing Catholicism today.

THEO 312 PHILOSOPHY OF RELIGION (3 credit hours) [offered every other year] - meets the liberal education requirements for either philosophy or theology. It is able to do this since it touches upon those basic issues at the heart of these disciplines. The course will focus on the relationship of reason and revelation. It is precisely in an examination of this issue that the unique natures of philosophy and theology become evident. Questions concerning the nature of faith, the intelligibility of reality, nature and creation, the nature of God and the relationship between man and God will be examined. These questions are foundational to the understanding of human existence both from a theological and
philosophical perspective.

THEO 325 TOPICS IN PASTORAL MINISTRY (1-3 credit hours) [offered when there is sufficient student demand and faculty members are available] - addresses various issues and theologies relating to lay ministry in the parish/school/campus setting. Topics may include such areas as youth ministry, liturgical planning, organizational skills, team building, and finances in non-profit organizations.

THEO 330 THEOLOGY OF DEATH AND DYING (3 credit hours) [offered every other year] - explores the experience of suffering, death, and dying from the perspective of Christian anthropology. Modern technology has added complexity to the ethical decisions which the dying person and the family must face. This complexity will be addressed in light of recent Christian thinking on these issues. From a pastoral/spiritual point of view, the Church as Community and Sacrament will be examined as a means of divine and gracious comfort for the dying person and the family and friends, as well as a sign of hope through Christian belief in the Paschal Mystery.

THEO 340 CHRISTIAN CATECHESIS (1-3 credit hours) [offered when there is sufficient student demand and faculty members are available] - studies the issues and theologies which shape contemporary catechetical ministries as well as the psychology of religious learning. Students will do some form of catechetical ministry to be determined in consultation with the instructor. Prerequisite: consent of the instructor.

THEO 350 IMAGES OF JESUS (3 credit hours) [offered every other year] - discovers the meaning of Jesus for Christianity by means of a selective review of theological traditions and fundamental doctrines. The course will consider various biblical, historical, philosophical and social/scientific contributions to a contemporary understanding of Jesus.

THEO 490 SENIOR PROJECT (1 credit hour) [offered when there is sufficient student demand and faculty members are available] - offers each senior major, under the direction of the faculty advisor, the opportunity to research a topic agreed upon and approved by the Theology department. Following a schedule contracted with his/her advisor, the student will complete this requirement by formally and publicly presenting his/her research to faculty and students in theology and other invited guests. Prerequisite: Senior theology major

THEO 494 TOPICS IN THEOLOGY (1-3 credit hours) [offered when there is sufficient student demand and faculty members are available] - is a title given to a course which covers specific themes, practices, and subject content not currently offered in the curriculum. This course is directed primarily to student majoring in the subject area and could be used to complete major requirements. The course will provide an in-depth study of a specific topic. Prerequisites will vary. May be repeated for credit.

THEO 495 DIRECTED STUDY (1-3 credit hours) [offered when there is sufficient student demand and faculty members are available]

THEO 496 INDEPENDENT STUDY (1-3 credit hours) [offered when there is sufficient student demand and faculty members are available]

THEO 498 INTERNSHIP IN PASTORAL MINISTRY (1-15 credit hours) [offered when there is sufficient student demand and faculty members are available] - offers students the opportunity to use what they have learned in the classroom in a supervised setting, as determined in conjunction with their mentor. They will keep a journal and meet regularly with supervisor/advisor. Prerequisites: major, minor; THEO 325 or THEO 340
VART 101 2-D DESIGN PRINCIPLES (3 credit hours) [offered every spring] - introduces the student to the elements and principles of two-dimensional design. In this course the student produces projects that address foundation level design principles including: formal design relationships, Gestalt theory, design terminology, and introductory color practices and theory. (IAI Course # ART 907)

VART 151 INTRODUCTION TO DRAWING (3 credit hours) [offered every semester] - provides an introduction to and practice in fundamental drawing techniques and concepts including perspective, model, and still-life practices. May be repeated once. (IAI Course # ART 904)

VART 152 INTRODUCTION TO PAINTING (3 credit hours) [offered every semester] - introduces the student to fundamental painting techniques, stylistic trends, and uses of composition in painting. May be repeated once. (IAI Course # ART 911)

VART 194 TOPIC (1-4 credit hours) [offered when there is sufficient student demand and faculty members are available] - is a title given to a course which covers broad themes, practices, and subject content not currently offered in the curriculum. This course is directed primarily at non-majors and may be used for general education where approved. Generally does not have prerequisites.

VART 201 3-D DESIGN PRINCIPLES (3 credit hours) [offered every other spring] - introduces the student to the elements and principles of three-dimensional problem solving and its use to describe three-dimensional form. During the semester, the student is to distinguish a clear understanding between three-dimensional form and that of two-dimensional design by creating 3-D models and projects. Prerequisite: VART 101 (IAI Course # F1 908)

VART 202 ART AND CULTURE TRAVEL STUDIES (1-3) [offered when travel is required] - introduces students to aesthetic and historical approaches in the visual arts through first-hand experience. Students study the historical significance that the visual arts (art, architecture, and photography) have played in defining a specific culture during the course of the semester. This experience culminates with an extended visit to a city or country focused upon during the semester. Must be taken for 3 semester hours to be used for general education.

VART 205 EXPLORING THE FINE ARTS (3 credit hours) [offered every semester] - provides students with a study of the visual arts and music within a historical-cultural context; covers Greco-Roman styles to the present. Students become acquainted with significant works of art and music, including artists, architects, and composers in the Western tradition. (IAI Course # F1 900, F9 900)

VART 250 SCREEN PRINTING (3 credit hours) [offered every semester] - provides each student with the opportunity to develop a dynamic, skillful, and contemporary approach to the medium of serigraphy. Throughout the semester, you will experiment with a variety of serigraphic methods including: hand-painted stencils, photographic emulsion, drawing fluid, multiple-color registration, and editing. Students will also experiment with a variety of alternate methods of mechanical reproduction and printmaking. This course should provide all students with the opportunity to add a valuable technical art-making method to their existing "artistic vocabulary", while also creating unique works of art via an entirely new medium. Prerequisite: VART 101.

VART 251 INTERMEDIATE DRAWING (3 credit hours) [offered every semester] - provides an intermediary approach to drawing practice and theory in fundamental drawing
techniques and concepts including traditional, alternative, and theory-based approaches. May be repeated once. Prerequisite: VART 151 or consent. (IAI Course # ART 905)

VART 252 INTERMEDIATE PAINTING (3 credit hours) [offered every semester] - provides an intermediary approach to painting practice and theory in fundamental drawing techniques and concepts including traditional, alternative, and theory-based approaches. Studio courses may be repeated for full credit. Prerequisite: VART 152 or consent. (IAI Course # ART 951)

VART 253 CERAMICS (3 credit hours) [offered every semester] - surveys in a hands-on format fundamental ceramic practices and history. May be repeated once. (IAI Course # ART 912)

VART 254 FIGURE DRAWING (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - utilizes drawing foundations to address anatomical drawing practices from a traditional standpoint. Students render live models using a variety of medias to better understand line, shape, texture, and space relationship as applied to human form. Prerequisite: VART 151 or consent. (IAI Course # ART 906)

VART 257 ANCIENT, MEDIEVAL, AND NON-EUROPEAN ART HISTORY (3 credit hours) [offered every other year] - provides an overview of Ancient, Medieval, and Non-European visual arts (specifically architecture, crafts, painting, and sculpture). An introduction of the aim of art history, forms of classification, cultural influences and trends, and the problems of representation are the central focus during this survey. (IAI Course # ART 901)

VART 258 RENAISSANCE TO MODERN ART HISTORY (3 credit hours) [offered every other year] - provides an overview of Renaissance, Baroque, and Modern visual arts (specifically architecture, painting, photography, and sculpture) in a format which contrasts historical and cultural events with aesthetic and technical advancements. (IAI Course # ART 902)

VART 297 INTRODUCTION TO INDIVIDUAL STUDIO PRACTICE (3 credit hours) [offered every semester] - offers an intensive introduction to fine art students concentrating in the Studio area. It is intended that the student would take the class multiple times in order to build a body of work in preparation for Individual Studio Practice. Each week the student will meet with the instructor individually, and together they will map out a series of projects to be completed in that semester. Students will also write extensively about their process and will be given related research assignments. May be repeated to a maximum of 9 hours. Prerequisite: VART 101.

VART 301 ADVANCED DRAWING (1-3 credit hours) [offered every semester] - provides an in-depth analysis and hands-on approach to trends in contemporary drawing for advanced students. Students will study relevant concepts and critical theory while practicing current drawing methods. May be repeated once. VART 151, VART 251 or consent.

VART 302 ADVANCED PAINTING (1-3 credit hours) [offered every semester] - provides in a seminar/workshop format, extensive study of current trends and practices using various painting mediums (watercolor, encaustic, assemblage, or oil). May be repeated once. Prerequisite: VART 152, VART 252 or consent.

VART 310 TYPOGRAPHY I (3 credit hours) [offered every spring] - introduces the student to the foundation of typographic communication and its’ use in two-dimensional design. The focus of the class will be the working with type and formal elements while developing a foundation on how communication and design are affected by the use of varied letterforms, fonts, and type. Prerequisite: VART 101, MCOM 251 or consent.
VART 311 DIGITAL ART (3 credit hours) [offered every spring] - introduces the student to intermediate approaches in the use of the Photoshop application and its use as a Fine Arts and Illustration tool. The student should develop a clear understanding of how this application can be used as a tool to create a consistent body of work addressing aesthetic and conceptual. Prerequisite: VART 101, MCOM 251 or consent.

VART 316 STUDIO LIGHTING (3 credit hours) [offered every semester] - introduces the student to studio lighting for photography as it is applied in product, portrait, interior, and artistic projects. The class introduces the student to spot, flood, strobe, flash and natural lighting techniques and professional equipment. Through a series of lighting exercises, the student develops foundation knowledge on how specific forms of lighting and equipment are used for specific results in commercial and fine art projects. In addition, students will work with digital, medium, and large format cameras over the course of the semester. Prerequisite: MCOM 122.

VART 317 DOCUMENTARY PHOTOGRAPHY (3 credit hours) [offered every semester] - introduces students to the foundations (application, history, and theory) of documentary photography. Utilizing basic photographic knowledge, students are introduced to the origins, practices, terminology, and current digital trends of documentary photography in a studio format. Over the course of the semester, students execute a number of specific projects related to discussions, produce a body of work, discuss the intent and understanding of the photographs, and build a vocabulary related to documentary photography. Prerequisite: MCOM 122.

VART 318 PORTRAIT PHOTOGRAPHY (3 credit hours) [offered every other spring] - introduces students to the foundations (application, history, and theory) of portrait photography. Utilizing basic photographic knowledge, students are introduced to the origins, practices, terminology, and current digital trends of portrait photography in a studio and seminar format. Over the course of the semester, students execute a number of specific projects related to discussions, produce a body of work, discuss the intent and understanding of the photographs, and build a vocabulary related to portrait photography.

VART 319 COLOR PHOTOGRAPHY (3 credit hours) [offered every other year] – introduces students to the foundations of color photography. Utilizing basic photographic knowledge, students are introduced to the origins, practices, terminology, and current digital trends of color photography in studio and seminar format. Students will execute a number of specific projects, produce a body of work, discuss the intent and understanding of the photography, and build a vocabulary related to color photography. Prerequisite: MCOM 122.

VART 320 ALTERNATIVE PHOTO PRACTICES (3 credit hours) [offered every semester] - introduces students to alternative photographic practices in both conceptual and technical arenas. Utilizing basic photographic knowledge, students are introduced to experimental and theory-based practices in a studio-seminar format. Students are to utilize the varied practices and techniques to develop a consistent body of photo-based work over the course of the semester. Prerequisite: MCOM 122 or consent.

VART 321 CONTEMPORARY ART PRACTICES I (3 credit hours) [offered every spring] - will introduce students to the various strategies and materials common in contemporary art. Installation, video and performance activities will be treated individually through the semester. The conceptual, material and perceptual skills required to successfully manipulate the various media will be of primary importance through an applied and theory-based approach. Prerequisite: VART 101.

VART 322 SCULPTURE (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - introduces the student to alternative and traditional
approaches to sculpture practice, terminology, and theory. In this course, the student produces 3-Dimensional works utilizing varied materials including: aluminum, wood, steel, ceramic castings, and found objects. May be repeated once. Prerequisite: VART 101, VART 201 or consent. (IAI Course # 913)

VART 323 INSTALLATION ART (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - introduces the student to artistic application, practice, and the history of site-specific art. In this studio course, traditional and non-traditional art making practices and theory are utilized to transform an environment into a place that can address aesthetic, political, social, and self-discovery issues. Prerequisite: VART 101, VART 201 or consent.

VART 324 PERFORMANCE ART (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - will explore the body and its relationship to time and space as a fundamental element in art making. Students will be introduced to a range of technologies for gathering material, which may be used in class projects. The course will discuss the history and theory of performance, as well as introduce various approaches to 'non-theatrical' performance methods. Prerequisite: VART 101, MCOM 237 or consent.

VART 354 CERAMICS 2 (3 credit hours) [offered every semester] - introduces students to ideas and materials for hand-building and wheel-techniques while addressing ceramic's creative origin and how it is applied to art history in the 21st century. During the course of the semester, the student will work upon hand-building, throwing pots and tableware upon the wheel. In addition, the course will cover material that looks into how ceramics has been applied in contemporary art. Prerequisite: VART 253.

VART 359 TWENTIETH CENTURY ART (3 credit hours) [offered every other fall] - provides an overview of 20th century visual arts (specifically architecture, design, painting, and sculpture). In addition, contemporary photography, video, and performance practices will be covered in-depth during the later part of the semester.

VART 360 FILM AND PHOTO VISUAL CULTURE (3 credit hours) [offered every other semester] - provides an overview of film, photography, and video (specifically contrasting the conceptual, historical and social influences encountered by the general public) in a seminar format. Students view, analyze, and discuss influential and seminal American and international films, photography, and video throughout the semester. This class will cover material from each of the three mediums dating back to 1839 and looking forward to contemporary trends (2000’s) focusing upon important aesthetic, cultural, political, and social topics.

VART 410 TYPOGRAPHY II (3 credit hours) [offered every other semester] - provides an in-depth approach to typographic application, practice, and theory. Students address conceptual and formal typographic function through the creation of a broad body of work utilizing text in traditional and unconventional formats. Prerequisites: VART 101, MCOM 251, VART 310 or consent.

VART 411 DIGITAL STUDIO (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - provides an introduction into advanced digital art making practices and theory. Through lectures, readings, and the development of a personal project related to contemporary digital art practices, students are to translate traditional art approaches into a digital arrangement or into a print format. Students are required to produce a consistent body of artwork utilizing various digital programs for a portfolio and presentation. In addition, students are to obtain a clear understanding on how and why digital media effects their aesthetic production. Topics covered include: Current
trends in Digital Art, Streamlining Output and Presentation, Digital Complexity vs. Simplicity, Electronic Art Theory, and Contemporary Art Presentation Strategies. May be repeated once. Prerequisites: VART 101, MCOM 251 or consent.

VART 412 CONTEMPORARY ART PRACTICES II (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - presents an intensive survey of contemporary performance, site, and installation art from an anthropological point of view. Specifically, the course focuses on artist’s works that were constructed to be experienced live and/or through photographic and video documentation of the work. Students will be given workshops on sound, digital photography, and video editing. Students will be required to produce and present a performance, site, or installation work of their own for their final project as well as photographic and/or video artworks based on their piece. May be repeated once. Prerequisites: VART 101, MCOM 237, VART 321 or consent.

VART 413 THE PHOTOBOOK (3 credit hours) [offered every semester] - introduces the primary tool used to present work to the general public by serious artists addressing artistic, conceptual, and documentary content and practices today. In this course, students will work with preexisting bodies of photography to produce a Photobook. In addition, the students will be introduced to the history of the Photobook through looking at and discussing seminal photo-based artist produced publications. Prerequisite: VART 122 or consent.

VART 450 PORTFOLIO DEVELOPMENT (3 credit hours) [offered every spring] - provides an overview of business aspects and packaging concerns for graphic design and studio art majors. This class will cover the processes of building a professional level portfolio in a multimedia and traditional format. Students work with digital programs (e.g. Illustrator, Photoshop, and Flash) to build a portfolio. A preexisting body of work and course assignments will be used to advance the portfolio material over the term of the semester. The portfolio produced in this course is to be used to search for an internship, approach terminal art degree programs, and make the student competitive in the marketplace. Prerequisite: permission of the instructor is required.

VART 451 VISUAL ARTS SEMINAR (3 credit hours) [offered every other semester] - designed to be a forum for advancing a preexisting body of work in aesthetic and conceptual terms for upper level students with a concentration in the Visual Arts (Arts Administration, Graphic Design, and Studio Arts). The student formulates a clear thesis for presentation purposes. Persons will work in a team-format to address contemporary topics outlined in the course description and syllabus. Topics covered include: exhibition systems, presentation strategies, artist statements, contemporaneous visual culture issues, and the process for refining a body of work. May be repeated once. Prerequisite: permission of the instructor.

VART 456 ART BASED EDUCATION (3 credit hours) [offered when there is sufficient student demand and faculty members are available] - allows the student to share in the experience appropriate for the younger child. Skills, materials, activities are based on developmental learning. Many projects relate to a historical and cultural background. The student benefits from hands-on studio experiences and theories of performance of the child in art activities.

VART 492 TOPIC IN PHOTOGRAPHY (1-3 credit hours) [offered when there is sufficient student demand and faculty members are available] - is a title given to supplemental courses focusing on a specific method, topic, history, or intensive group project in photography. Prerequisite: MCOM 122 or consent.

VART 494 TOPIC IN ART (1-4 credit hours) [offered when there is sufficient student demand and faculty members are available] - is a title given to a course which covers specific themes, practices, and subject content not currently offered in the curriculum. This course is
directed primarily to student majoring in the subject area and could be used to complete major requirements. The course will provide an in-depth study of a specific topic. Prerequisites will vary.

VART 495 DIRECTED STUDY (1-3 credit hours) [offered when there is sufficient student demand and faculty members are available] - an intensive directed study and practice of any of the sub-fields of the visual arts in either an individual or small group setting. Prerequisite: permission of instructor.

VART 496 INDEPENDENT STUDY (1-3 credit hours) [offered when there is sufficient student demand and faculty members are available] - designed by the student and overseen by a faculty advisor, this course is an intensive independent study and practice of any of the sub-fields of the visual arts. Prerequisite: permission of instructor.

VART 497 INDIVIDUAL STUDIO PROJECTS (1-6 credit hours) [offered every semester] - requires advanced visual arts majors to develop a consistent and proficient body of work paralleled with written statement describing background and intent for a portfolio or exhibition. The student and mentor determine the subject matter. Prerequisite: permission of the faculty advisor is required. May be repeated to a maximum of 9 hours.

VART 498 FINE ARTS INTERNSHIP (1-16 credit hours) [offered every semester] - is a supervised, practical experience designed to utilize the advanced student’s knowledge in the workplace. The student is required to spend a minimum of 30 hours in the field per semester hour of credit. The student will be developing hands-on skills outlined in conjunction with the faculty advisor. Prerequisite: VART 251, VART 252, or consent.