

Course Descriptions



AC-ACCOUNTING (SS)

- AC 201** **Principles of Accounting I**
Introduction to financial accounting, including the concepts, procedures and terminology of modern accounting. Generally accepted accounting principles will be discussed and applied to various business concerns. 3:0:3
- AC 202** **Principles of Accounting II**
Continuation of AC 201 with an emphasis on managerial uses of cost information for planning and controlling a business. Prerequisite: AC 201 or equivalent. 3:0:3
- AC 230** **Computer-Based Accounting Systems**
An introduction to integrated accounting systems with emphasis on hands-on applications based on simulated accounting practice. Prerequisite: AC 201 and CS 140. 3:0:3
- AC 309** **Individual Income Tax**
A study of the current Federal Income Tax law with emphasis on its application to individuals as part of a cooperative effort with the Internal Revenue Service. Prerequisites: AC 201 and CS 140. 3:0:3
- AC 309A** **Income Tax Practicum**
Under supervision, students prepare federal, state and city income tax returns. Students must either be enrolled or have previously completed AC 309 or equivalent and CS140. This course may be repeated for one-hour additional credit each time repeated. Prerequisite: Consent of Instructor. 2:30:2
- AC 312** **Business Income Tax**
A study of the current federal income tax law. Emphasis is on tax research and the problems faced by partnerships and organizations. Prerequisites: AC 309, AC 320 and CS 140 or equivalents. 3:0:3
- AC 315** **Cost Accounting**
A study of the basic principles of cost accounting applied to manufacturing, merchandising, and service businesses. Emphasis is on various accepted cost methods such as job order, process, and standard cost system. Prerequisites: AC 202 and CS 140. 3:0:3
- AC 320** **Intermediate Accounting I**
A study of the theoretical and technical basis of current accounting practices. Course includes basic theory, analysis of financial statements and accounting changes. Emphasis is on compliance with generally accepted accounting principles applied to business problems. Prerequisites: AC 202 and CS 140 or equivalents. 3:0:3
- AC 325** **Intermediate Accounting II**
Continuation of AC 320. Course includes current assets and liabilities, plant, property and equipment; long term liabilities; and shareholders equity. Prerequisites: AC 320 and CS 140 or equivalents. 3:0:3
- AC 335** **Fund Accounting**
A study of the financial accounting and reporting in non-profit service organizations such as governments, hospitals, colleges, and human service organizations. Prerequisites: AC 202 and CS 140 or equivalents. 3:0:3

- AC 420** **Advanced Accounting I**
Continuation of AC 325. Selected topics in advanced financial accounting with emphasis on current accounting problems and pronouncements of the Financial Accounting Standards Board. Prerequisites: AC 325 and CS 140 or equivalents. 3:0:3
- AC 425** **Advanced Accounting II**
Continuation of AC 420. Course includes consolidated financial statements and fund accounting. Prerequisites: AC 420 and CS 140 or equivalents. 3:0:3
- AC 430** **Auditing**
A study of auditing theory and procedures, the development and use of internal controls, and the ethical and professional standards of an independent professional accountant. Prerequisites: AC 325 and CS 140 or equivalents. 3:0:3
- AC 440** **Special Topics in Accounting**
An in-depth examination of specific areas in the field of accounting. Topics include, but are not limited to: governmental accounting, current problems, theory of income determination, budgetary control, information systems, and independent research. Variable credit: 1-3 hours.
- AC 451** **Accounting Internship**
Open to accounting majors and minors who have demonstrated excellence in accounting and want to explore practical applications to the academic body of knowledge in the professional environment. Variable credit: 1-12 hours.

AN-ANTHROPOLOGY (SS)

- AN 100** **General Anthropology (MGE)**
This course is an introduction to the principles and processes of physical and cultural anthropology. Course topics include areas of human evolution, prehistoric archaeology, population genetics, development of cultural and social systems, ethnology and linguistics. Concepts examined include research and ideas from the various schools of anthropological thought. 3:0:3
- AN 207** **Field Study in Archaeology (NS)**
Combines theoretical studies in archaeology with extensive fieldwork. Lectures delivered on site provide a conceptual framework, which makes meaningful the actual dig experience. Course requirements include a minimum of thirty-two hours excavation, identification, and classification of material; ten hours lecture; and extensive reading from a variety of sources. 3:0:3
- AN 221** **Urban Anthropology (MGE)**
The anthropology of urban centers focuses on the study of human beings and their cultural institutions in cities. The course focuses on strategies of people and how they cope with demands imposed by urban environments. The ethnographic study of cities explore questions related to the nature of urban experiences, the differences and similarities between different settings and the vexing question of “what is a city?” The course will require supplemented field trips to Kansas City. 3:0:3

AN 241

Culture and Globalization (MGE)

This course studies refugees and forced migration as a means to understand certain processes, systems, and relationships that compose the phenomenon termed globalization. The course will examine the global directions of people across national frontiers from an anthropological perspective that is one which examines how these processes are experienced locally. Focus will explore the issues of refugee categories, identity construction, nation-state membership, migrant networks and the humanitarian support system that facilitates the migration of peoples. 3:0:3.

AN 301

Cultural Anthropology (MLL)

Cultural anthropology, or ethnography, is a study of humans as social beings, an analysis of society in a cross-cultural and global perspective, and the study of issues of cultural transformation and processes of globalization. The course will study the interrelated aspects of culture and world regions, including language, human cultural diversity, cultural pluralism, the existence and perpetuation of inequality in human society, human interaction with the environment, race, ethnicity nationalism, world-views, social organization, and the arts. 3:0:3

AN 410

American Theoretical Culture (MLL)

Anthropological culture and the study of American society examines the ideas surrounding mainstream or dominant American culture. The course will focus on issues related to themes that shape American culture, inform national conversations, and narratives related to citizenship, democracy, political participation, and the role of media in shaping opinions. The foundation of race, class, gender, and religion will form the basis, which are central themes of the discussion and study of American culture. 3:0:3.

AR-ART (H)

AR 100

Art for Non-Majors (GE)

An introduction to a variety of two-dimensional and three-dimensional art media for the non-major. Students complete a number of studio projects. Emphasis is on personal visual expression within the limitations and craftsmanship imposed by each medium. Demonstrations and fieldtrips are included. 1:5:3

AR 115

Introduction to the Visual Arts (MGE)

A basic art appreciation course, which introduces the formal language of painting, sculpture, and architecture, relating them to the philosophical premises and historical events that they reflect. This course provides a framework of reference for appreciation of art as well as a basis for further study. While slide lecture is the usual format, demonstrations, fieldtrips and gallery tours augment classroom instruction. 3:0:3

AR 150

Drawing I (GE)

An introduction to drawing as the artist's first and most basic skill, as a way of seeing and solving problems and as a means of personal expression that anyone can learn. The techniques of drawing in line and value (overall shading) in a variety of media (graphite, charcoal and ink) are covered. Subject matter includes still life, landscape, portraiture, and linear perspective. 1:5:3

- AR 203** **Three-Dimensional Design**
The basic principles of three-dimensional design that underlie all sculpture and such diverse fields as package, furniture, and interior design are systematically explored in a series of studio assignments in a variety of media. Additive, subtractive, constructive, and simple casting techniques are taught. 1:5:3
- AR 204** **Two-Dimensional Design: Black & White**
Basic principles of two-dimensional design, in black and white, which underlie all art and design are systematically explored in a series of studio assignments in a variety of media. 1:5:3
- AR 208** **Color Theory**
The basic principles of color theory, which apply to and underlie all the disciplines of design and fine art, are systematically explored in a series of studio assignments in a variety of media. 1:5:3
- AR 215** **Art History I (MGE)**
A chronological survey of the history of art from the prehistoric and ancient eras through the medieval. Instruction is not limited to the western tradition but includes sections on Asia, India, Africa and the Americas. Art is studied within historical and cultural contexts. Gallery tours augment slide-lecture instruction. 3:0:3
- AR 216** **Art History II (MGE)**
A chronological survey of the history of art from the Renaissance through the twentieth century. Instruction is not limited to the western tradition but includes sections on Asia, Oceania, India, Africa and the Americas. Gallery tours augment slide-lecture instruction 1:5:3
- AR 218** **Graphic Design Software**
This course introduces the use of primary design programs and the discipline of design in a Macintosh environment as a foundation for the upper level graphic design classes. 1:5:3
- AR 241**
(CA 241) **Photography I**
An introduction to the basic techniques of black and white photography. Cameras, lenses, films, lighting, composition are discussed. Students must provide an acceptable camera and expendable supplies. Darkroom work is required and a darkroom fee is charged. Prerequisite: Permission of instructor. 2:6:4
- AR 251** **Drawing II**
An introduction to drawing the human figure in action and repose. Gesture, anatomy and the figure in an environment are studied in a range of media. Prerequisite: AR 150. 1:5:3
- AR 260** **Painting I**
An introduction to painting emphasizing direct observation of nature in opaque media such as acrylic, oil, gouache or pastel. Draftsmanship and strong color, form, value and compositional relationships are stressed as well as the craftsmanship of painting. Prerequisite: AR 150. 1:5:3
- AR 261** **Painting II**
A continuation of AR 260. Students may elect to study transparent painting media such as watercolor (All levels of painting are taught concurrently.) Prerequisite: AR 260. 1:5:3

- AR 290** **Interior Design Materials and Resources**
AR 290 is a survey of materials used by interior designers for architectural elements and finishes for both residential and public space design. The student will learn to evaluate and select the appropriate materials for a design project, and will be introduced to life safety ratings for finish materials. The student will be introduced to manufacturers and suppliers of materials through field trips, guest speakers, manufacturer's catalogues and research. The student will be introduced to writing specifications for interior design materials. 3:0:3
- AR 292A** **Interior Design Studio I: Visual Communications I**
Students will be introduced to various two dimensional methods of presenting design concepts. Methods will include drafting with tools, freehand drawing, sketching and diagramming techniques, color rendering techniques, presentation board construction techniques and graphic layout of design presentations. Hand drafting will be introduced with emphasis on understanding orthographic drawings and developing line quality and architectural lettering skills. Co-requisite: AR 292B. 1:5:3
- AR 292B** **Interior Design Studio I: Introduction to Interior Design**
Students are introduced to the interior design profession and its role in shaping the environment. Students are introduced to the design process as it is followed in a professional office. The elements, vocabulary and principles of design are applied to a series of simple interior design projects, including both residential and public space interior design. Students are introduced to life safety codes and accessibility guidelines. Skills and knowledge of pre and co-requisite studio and lecture courses are applied to design projects. Course must be taken concurrently with AR 292A. 1:5:3
- AR 296** **Textiles for Interior Design**
Students will learn to identify textiles by fiber content, yarn construction, weave and finish, and will understand the effect of these components on the performance of textile products. Students will apply knowledge of textile component properties to the various end uses to which textile products are applied with emphasis on textiles used for finishes, furnishings and soft goods. Students will understand life safety ratings for textile products in various applications. Prerequisite: AR 290. 3:0:3
- AR 298** **History of the Designed Environment: Antiquity to Mid-Nineteenth Century**
Students will study architecture, interiors, furniture and the decorative arts in the context of the history of Western culture. Students will understand the impact the built environment of the past has on our current environment and design practices. Connections will be made between past and present and between art, literature, film, architecture, and interior design. The study begins with antiquity and progresses through the mid-1800s. 3:0:3
- AR 299A** **Interior Design Studio II: Fundamentals of Interior Design**
Interior Design Studio II builds on the concepts introduced in AR 292A Interior Design Studio I, applying the design process to a series of residential and public space design projects, using the elements, vocabulary and principles of design. Life safety codes and accessibility guidelines are applied to projects. Skills and knowledge from pre and co-requisite studio and lecture courses are applied to design projects. Course must be taken concurrently with AR 299B. Prerequisites: AR 292A and AR 292B. 3:0:3

- AR 299B Interior Design Studio II: Drawing Systems I**
An introduction to the two dimensional methods of graphic communication used by architects and interior designers, with an emphasis on orthographic drawings used for construction drawings. Students will use tools and techniques to hone hand-drafting skills as well as be introduced to computer aided drafting using AutoCAD. Students will learn to read, organize and produce a set of construction drawings. Course must be taken concurrently with AR 299A. Prerequisites: AR 292A and AR 292B. 3:0:3
- AR 313 Independent Study in Art or Design**
Designed for students who have taken all courses in a particular area but wish to continue in it, or who wish to explore in an area for which there is no appropriate course offered. Admission to independent study is by permission of the Chair of the Department with evidence of the student's ability to work independently at an appropriate level. Students seeking admission to Independent Study must submit an approved proposal. The student and teacher write a contract stating goals, amount of work and critique times, etc. Variable credit: 1-6 hours.
- AR 314 History of Graphic Design**
A chronological survey of the history of graphic design, that is visual communication, from before the invention of writing, to calligraphy, to the invention of moveable type, to the computer generated fonts and images of today. The historical impact of changing technology and the cross-cultural nature of design will be addressed. Required course for Graphic Design majors. Prerequisite: AR115. 3:0:3
- AR 315 Special Topics in Art or Design**
A specialized workshop or seminar focused on a particular subject, issue or medium (such as Website Design or Digital Photography or Mural Painting). May be repeated for credit when topics change. Variable 1-3 credits
- AR 316 Modern Art (LL)**
The study of modern painting, sculpture, and architecture from the late nineteenth century to the present. Gallery tours are combined with slide-lecture instruction. 3:0:3
- AR 317 World Art (MLL)**
An introduction to the art of a selected number of cultures from Africa, Oceania and the Americas which will be studied within their historical and cultural contexts, and which will include examples of contemporary art. Gallery tours, studio exercises, and guest lectures will augment slide-lecture instruction. 3:0:3
- AR 318 Introduction to Graphic Design**
An introductory class that prepares students with basic hand skills through drawing and presentations, introduces typography, layout, vocabulary, technique, and the process of critique to produce professional graphic design projects. Abstraction, imagery, layout, and sequencing are studied through assignments and critiques. Prerequisites/co-requisites: AR204, 208 & 218. 1:5:3
- AR 320 Ceramics I**
An introduction to clay processes emphasizing hand building techniques, glazing and firing. 1:5:3

- AR 321** **Ceramics II**
A continuation of AR 320 that includes wheel throwing and other more advanced building techniques. Basic glaze calculation and explanations for firing techniques are covered. Prerequisite: AR 320. 1:5:3
- AR 328** **Intermediate Graphic Design**
Intermediate Graphic Design examines the photograph and its use in graphic arts. The use of Adobe Photoshop coupled with study in type design and design history are the focuses of the course. The process of developing design discipline is emphasized while producing portfolio quality projects that reflect a growing understanding of industry standards and practice. Prerequisite: AR318. 1:5:3
- AR 329** **Typography**
An introduction to the fundamentals of typography and the study of letterforms that builds on the work of previous graphics classes. Progressive assignments develop hand drawing skills and craftsmanship while addressing problems of increasing complexity. Both historical and contemporary type are explored and type is considered both as visual form and visible language. Prerequisite or co-requisites: AR318 & 328. 1:5:3
- AR 341**
(CA 341) **Photography II**
This course explores the language of photography with particular attention to the photographic essay and the photographic illustration. Both black and white and color photography are included. A variety of techniques in photographic printmaking are explored with an emphasis on self-expression and craft. A lab fee may be required. 3:0:3
- AR 350** **Drawing III**
Continuation of AR 251. An advanced level drawing course stressing increasing mastery of media, technique, composition and personal expression. (All levels of drawing beyond AR 150 are taught concurrently.) Prerequisite: AR 251. 1:5:3
- AR 351** **Drawing IV**
A continuation of AR 350. Prerequisite: AR 350. 1:5:3
- AR 360** **Painting III**
A continuation of AR 261. The student chooses media in consultation with instructor. Increased autonomy in choice of subject matter and emphasis on personal visual expression. (All levels of painting are taught concurrently.) Prerequisite: AR 261. 1:5:3
- AR 361** **Painting IV**
A continuation of AR 360. Prerequisite: AR 360. 1:5:3
- AR 370** **Fiber I**
An introduction to fiber that will emphasize handmade papermaking, basketry techniques and fiber as both two-dimensional surface and three-dimensional form. 1:5:3
- AR 371** **Fiber II**
An advanced fiber workshop in which the student chooses the media, technique and number of projects in consultation with the instructor. Taught concurrently with Fiber I. Prerequisite: AR 370. 1:5:3

- AR 390** **History of the Designed Environment: Mid-Nineteenth Century to the Present.**
This continuation of the study of architecture, interiors, furniture and the decorative arts in the context of Western culture begins with the aesthetic movements of the late 19th Century and progresses through the modern and post-modern movements of the 20th Century, ending with a survey of present and future design trends. Students will understand modern design movements in the context of the immense social changes that took place beginning with the industrial revolution and continuing through the information age. Students will learn to identify the work of individual 20th Century architects and furniture designers. Prerequisite: AR 298. 3:0:3
- AR 392** **Human Factors in Interior Design**
Human Factors is the study of the relationship between the individual and the built environment. Under the umbrella term “human factors” falls the study of ergonomics and anthropometrics, environmental and spatial behavior, universal design and the Americans with Disabilities Act, life safety issues and issues of social responsibility. Human Factors issues will be discussed in the context of various types of design, including private residence design, retail and hospitality design, offices, and design for special populations. Study will emphasize the phases of design that deal most directly with human factors issues: programming and post-occupancy evaluation. 3:0:3
- AR 393** **Lighting Fundamentals for Interior Design**
Lighting will be considered within the framework of the mechanical, electrical and plumbing systems of a building. Students will study the technical, aesthetic and psychological aspects of lighting in an environment. Principles of lighting design and selection will be applied to the selection of luminaries and lighting sources. Lighting design competencies will be applied to a co-requisite studio design project. Co-requisites: AR 397A and AR 397B. 3:0:3
- AR 396A** **Interior Design Studio III: Drawing Systems II**
Drawing Systems II builds on the concepts introduced in Drawing Systems I, with emphasis on architectural detailing, including millwork, furniture and cabinetry. Computer aided drafting using AutoCAD will be the primary method of graphic communication in this course. Prerequisites: AR 299A and AR 299B. Co-requisite: AR 396B. 1:5:3
- AR 396B** **Interior Design Studio III: Furniture Design**
This intermediate studio will build on the design concepts introduced in AR 292B and AR 299A, with an emphasis on furniture design. Students will design furniture as well as incorporate furniture selection and design into both residential and public space design projects. As in previous studios, the design process will be the framework for all project development. Material from co-requisite courses will be incorporated into design projects. This course must be taken concurrently with AR 396A. Prerequisites: AR 299A and AR 299B. 1:5:3
- AR 397A** **Interior Design Studio IV: Visual Communications II**
Three-dimensional design and presentation techniques will be developed in this continuation of Visual Communications I. Students will learn to construct one and two point perspective drawings and will practice three-dimensional sketching. Students will apply black and white and color rendering techniques to their drawings. Students will learn model-building skills and be introduced to techniques to generate three-dimensional

drawings on the computer. Prerequisites: AR 396A and AR 396B.
Co-requisites: AR 393 and AR 397B. 1:5:3

AR 397B**Interior Design Studio IV: Office Design**

The emphasis in Interior Design Studio IV is programming and space planning for a complex office design. Students will become familiar with several office furniture systems and choose one for use in their office design. As in all studios, the design process will be the framework for all project development. Material from pre- and co-requisite studio and lecture courses will be incorporated into the design project. Prerequisites: AR 396A and AR 396B. Co-requisites: AR 393 and AR 397B. 1:5:3.

AR 415**Internship in Art or Design**

Off-campus placement in a professional environment such as a graphic design studio, art gallery, or art organization, to gain insight into a particular art or design career and work experience in the field. Many different internships are possible. Variable credit from 3 to 6 hours (i.e., a minimum of 6 to 12 hours per week). Departmental approval required. Intended for seniors. Variable credit: 3-6 hours.

AR 418**Advanced Graphic Design**

This course emphasizes teamwork and group effort to create effective advertising campaigns. The student experiences the network of ideas and research necessary to reach a public targeted by the manufacturer or service. It also explores the history and methods of publication design and examines the processes involved in coordinating art and typography with verbal and visual content. Prerequisite: AR328 & 329. 1:5:3

AR 420**Ceramics III**

A continuation of AR 321 in which students work to develop their own techniques and with an emphasis on glaze formulation to enhance that work. Prerequisite: AR 321. 1:5:3

AR 421**Ceramics IV**

A continuation of AR 420 in which the student develops a sustained project idea. Students take responsibility for their own firings. Prerequisite: AR 420. 1:5:3

AR 427**Web Page Design**

This course concentrates on training the graphic designer to develop effective design interfaces for web page design. Students combine text, images, sound and interactivity to Web presentations. Students explore new software (for example FLASH MX) and technical information for Web page development and Web servers. Current and future directions of the information superhighway, online services, search engines and World Wide Web development are investigated. Prerequisite: AR 328. 1:5:3

AR 428**Graphic Design Portfolio**

This course offers an intense investigation of the design of ones portfolio including marketing techniques, format, binding, layout and reproduction. The second half of the course concentrates on training to develop effective graphic design interfaces for Web page design. Students combine text, images, sound and interactivity to Web presentations. Prerequisite: 418. 1:5:3

AR 450**Drawing V**

Continuation of AR 351. 1:5:3

- AR 451 Drawing VI**
Continuation of AR 450. Prerequisite: AR 450. 1:5:3
- AR 460 Painting V**
Continuation of AR 361. Prerequisite: AR 361. 1:5:3
- AR 461 Painting VI**
Continuation of AR 460. Prerequisite: AR 460. 1:5:3
- AR 470 Fiber III**
Continuation of AR371. An advanced level fiber course stressing increasing mastery of media, technique and personal expression. Although projects are developed in consultation with the instructor, the student will demonstrate growing artistic autonomy. (All levels of Fiber are taught concurrently.) Prerequisite: AR371. 1:5:3
- AR 471 Fiber IV**
A continuation of AR470. (All levels of Fiber are taught concurrently.) Prerequisite: AR470. 1:5:3
- AR 491 Interior Design Professional Practice**
Students are exposed to the range of career possibilities in the interior design profession through personal exploration, speakers, lectures, and discussions. Students will apply this knowledge to an evaluation of personal career goals and preparation of a cover letter and resume. Students will be exposed to the business structure and internal organization, marketing techniques, fee structures, and project management procedures of both residential and contract/commercial interior and architectural design firms. Class will include discussions of ethics, education and professional organizations. 3:0:3
- AR 495 Building Construction Systems**
Students will be introduced to the various components that make up the major building systems: the structural systems, the building envelope, and Mechanical, Electrical and Plumbing systems, with an emphasis on methods and materials of residential and commercial construction, and the interface between furniture systems and interior products with building systems. Students will learn to apply the construction specifications institute method for organizing drawings, specifications and architectural materials libraries. 3:0:3.
- AR 497 Senior Seminar**
The capstone course of the department focuses on the completion of the portfolio that documents the students development throughout his or her time at Park (a copy to be retained in the Art Office) and preparation for the transition to professional practices in art, education or design. This can include research on careers, graduate schools, galleries, resume preparation, etc. Fine Art and Art Education students are required to plan, publicize and install an exhibition of their work in the Campanella Gallery. The exhibition is optional for Graphic Design and Interior Design majors. 1:2:2
- Section A:** Fine Arts
Section B: Graphic Design
- AR 498 Senior Seminar I: Thesis**
Students will select a topic or design area for research, which will lead to a thesis statement and concept for a design project. Students will then

prepare a written program for the design of a project that will be completed in AR 499. Students will begin collecting material for a portfolio and develop a concept for portfolio design. Both the design project and the portfolio will be completed in AR 499, Senior Seminar II. Prerequisites: AR 397A and AR 397B. 3:0:3

AR 499**Senior Seminar II: Project and Portfolio**

Students will develop a design that meets the requirements of the program developed in AR 498. The project will be a culmination of the skills and knowledge gained in the student's academic experience. The project will include schematic design exploration, space planning, furniture, and finish selections, selection of finish materials and detailing of design elements. Issues of structure, lighting and mechanical/electrical and plumbing systems will be addressed. Life safety codes and accessibility standards will be applied. The final design will be presented to a committee of professional designers. In addition, students will prepare a portfolio of work that includes the senior project as well as a representation of work completed in their academic career. Prerequisite: AR 498. . 1:5:3

AT-ATHLETIC TRAINING/SPORTS MEDICINE (NS)

AT 144**Phase I Competencies in Athletic Training**

This entry-level course introduces Athletic Training Students to various competencies and proficiencies in athletic training. This course is designed as a laboratory for students to explore different policies & procedures, the use of equipment and supplies, terminology, physical fitness assessments, and basic care and prevention of injuries. In addition students will be required to obtain observation hours. Enrollment is reserved for athletic training majors or permission from instructor. 1:0:1

AT 145**Phase II Competencies in Athletic Training**

This course is designed to emphasize the ability to construct strength and conditioning programs, properly use isotonic exercise equipment, demonstrate the mechanics of cryotherapy and thermotherapy, care and prevention of injuries, wound care, and emergency procedures. In addition students will be required to obtain observation hours. Prerequisite: AT 144. 1:0:1

AT 231**First Aid and Emergency Procedures**

Practice and theory of first aid and cardiopulmonary resuscitation and skills as prescribe by the American Red Cross. Emphasis on accident prevention, first aid, emergency care and transportation of the sick and injured. An American Red cross standard First Aid and CPR certificate will be awarded to those who qualify. 1:2:2

AT 236**Kinesiology**

A course that studies the principles and concepts of human movement, normal anatomical structures, directional terms and cardinal planes, functional classification of joints, biomechanics, and range of motion including active, passive, and resisted movements to all major joints in the body. Finally, the course demonstrates the use of palpation techniques and measurement of manual muscle testing. Prerequisites: BI 212 3:0:3

AT 246**Phase III Competencies in Athletic Training**

This course is designed to allow students to demonstrate the mechanics when applying ultrasound and electrical muscle stimulation. Secondly, the

course will review the response of the human body to injury to allow the student to utilize the beginning levels of injury evaluation methods such as constructing and phrasing appropriate questions to obtain a medical history of an injured or ill individual, and assessment and management of muscle strains and ligament sprains. In addition, students will demonstrate appropriate written medical documentation when caring for acute and chronic injuries. Finally, in addition to the didactic segment, Athletic Training Students will be required to participate in a clinical assignment. Prerequisite: Admission into PUATP. 3:0:3

AT 247

Phase IV Competencies in Athletic Training

This course will emphasize that the student recognize and demonstrate management techniques for tendonitis, overuse and chronic injuries and possess the ability to develop progressive resistive exercises for chronic injuries. Secondly, students will demonstrate how to recognize and manage impingement and compartment syndromes, fractures, subluxations and dislocations. In addition, students will practice evaluation techniques using a goniometer and have the ability to design and implement emergency plans. Finally, in addition to the didactic segment, Athletic Training Students will be required to participate in a clinical assignment. Prerequisite: AT 246. 1:0:1

AT 250

Exercise Physiology

A study of the physiological adjustments that occur within the body during exercise. Emphasis is placed on the circulatory, respiratory, and metabolic systems, nutrition, and training systems. Prerequisites: BI 114 and BI 211 or equivalents. 3:0:3

AT 261

Care and Prevention of Athletic Injuries

This course will focus on the history, organization and the overall general practices of the athletic training profession. In addition, the course will provide the Athletic Training Student with the fundamental foundations needed to effectively recognize the cause of injuries, help prevent injuries from occurring, and effectively manage injuries once they have occurred through the allied health care team. Prerequisites: BI 211 and AT 231. 3:0:3

AT 348

Phase V Competencies in Athletic Training

A course that involves having the student demonstrate techniques in proprioceptive neuromuscular facilitation strengthening, stretching, and diagonal patterns. Secondly, students will demonstrate how to perform joint mobilization techniques and develop, implement, and adjust rehabilitation or reconditioning programs for the shoulder, knee, ankle, trunk, head and cervical regions of the body. In addition, students will demonstrate testing myotomes, dermatomes and reflexes, muscle strength, range of motion, and goniometry. Also, students will be able to recognize and manage head injuries, spinal injuries and classify cerebral concussions. Finally, in addition to the didactic segment, Athletic Training Students will be required to participate in a clinical assignment. Prerequisite: AT 247. 2:0:2

AT 349

Phase VI Competencies in Athletic Training

This course is designed to review clinical assessment techniques of the lumbar, sacroiliac, and thoracic regions of the spine. Secondly, students will demonstrate correct evaluation techniques with posture analysis and common injuries associated with the spine. In addition, students will demonstrate proper design and implementation of emergency action plans. Finally, in addition to the didactic segment, Athletic Training Students will be required to participate in a clinical assignment. Prerequisite: AT 348. 2:0:2

- AT 350 Pathology in Athletics**
This course is designed to provide the student with working knowledge of the pathophysiology and management of common diseases and medical conditions. Recognition, treatment, medial referral and recommendations for exercise are explored. Management and considerations in treatment of common disabilities among physically active individuals are investigated. A laboratory dedicated to clinical techniques and applications will accompany the class. Prerequisite: AT 365. 4:0:4
- AT 355 Therapeutic Modalities in Athletic Training**
This course introduces the theory and application of therapeutic modalities such as hydrotherapy, electrotherapy, thermotherapy, cryotherapy and manual techniques for the prevention and care of athletic injuries. Prerequisite: AT 261. 4:0:4
- AT 356 Administration of Athletic Training**
This course discusses the policies, procedures, issues and supervision involved with the administration of athletic training. Emphasis is placed on facility organization and design, supervision, legal liability, budgeting, record keeping, equipment maintenance, counseling and public relations. Prerequisite: AT 261. 3:0:3
- AT 365 Advanced Athletic Training**
This course reviews the management of the competitive athlete and athletic training programs at every level. Emphasis is placed upon mechanisms of sport injury and techniques of injury. This course will also provide review of anatomical structures and provide knowledge to the student in the areas of postural screenings, common injuries, development of prevention programs, treatment of pathological conditions, neuro and musculoskeletal screenings, measurement of joint motion, MMT, ligament and capsular instability, the use of appropriate terminology and functional return to activity. Prerequisite: AT 261. 4:0:4
- AT 366 Therapeutic Exercise and Rehabilitation**
Theory and application of exercise, rehabilitation techniques and therapeutic equipment for the prevention and care of athletic injuries. Prerequisite: AT 365. 4:0:4
- AT 421 Special Topics in Athletic Training**
An in-depth examination of specific areas and current issues in the field of athletic training. Students will engage in professional research and presentation. Prerequisite: AT 365. 3:0:3
- AT 450 Phase VII Competencies in Athletic Training**
This course is designed to review clinical assessment techniques of the lower extremity and common injuries associated with the lower extremity. In addition to the didactic segment, Athletic Training Students will be required to participate in a clinical assignment. Prerequisite: AT 2:0:2
- AT 451 Phase VIII Competencies in Athletic Training**
A capstone course providing the student with opportunities for practicing mock certification exams. Secondly, the course will review clinical assessment techniques of the upper extremity and common injuries associated with the upper extremity. In addition, students will demonstrate proper design and implementation of emergency action plans. Finally, in addition to the didactic segment, Athletic Training Students will be required to participate in a clinical assignment. Prerequisite: AT 450. 2:0:2

AV-AVIATION (SS)

- AV 103 Air Transportation**
A study of air transport system development up to the present. Emphasis is on the characteristics of each part of the system such as the effects of regulation, competition, and environmental control. 3:0:3
- AV 104 General Aviation Management**
A practical view of the management of aviation enterprises. Covers basic management concepts, the importance of profit and the impact of many regulations on the aviation industry. Review of the decision making process and a look into the future of general aviation business. 3:0:3
- AV 262 Aviation Marketing**
The function of marketing in airline and general aviation operations, market research, demand analysis, advertising and promotion, sales, traffic, and theory of price determination. 3:0:3
- AV 267 Aviation Law and Regulations**
The development of aviation law as a distinctive body of statutes, treaties, regulations and case law. Topics include federal and state jurisdictional problems, criminal law, aviation accident litigation, environmental law and international law of air and space. 3:0:3
- AV 370 Airline Management**
Study of management development of various domestic, local and international air carriers. Designed to cover the complex area of operational techniques and problems confronting airlines today. 3:0:3
- AV 402 Special Topics in Aviation Management**
In-depth examination of contemporary issues in the field of aviation management. Topics include, but are not limited to: passenger trends, deregulation criteria for transport aircraft, airport security, air cargo operation problems, environmental impact and conservation problems. May be repeated for credit with change in topic. 3:0:3
- AV 403 Airport Management**
The major functions of airport management operations, zoning, adequacy, financing, revenues and expenses, design, and safety. A study of the airport master plan; federal, state, and local agencies; and the socioeconomic effect on the community. 3:0:3
- AV 426 Aviation Safety**
Designed to develop an awareness of the broad areas involved in the pursuit of safety in the air. The basic principles of aviation accident prevention in government, airlines, corporate, and other aspects of aviation. Includes the technological aspects of flight as well as the human aspects. 3:0:3
- AV 428 Senior Project in Aviation Management**
A special project undertaken by the student with the approval and guidance of the Program Coordinator. Topics include but are not limited to: airport management, air cargo operations, fixed base operations, airline marketing, and corporate flight operations. It is strongly recommended that all major core courses be completed prior to enrolling in this course. 3:0:3

BI-BIOLOGY (NS)

- BI 106 Introduction to Biology (GE)**
A first course in biology stressing the functions of science, heredity, evolution, and ecology with emphasis on man's role in the ecological system. (Does not apply to biology majors.) 3:0:3
- BI 111 Environmental Biology (GE)**
An introduction to biological science with emphasis on heredity, evolution, and ecology. Man's role in the ecosystem is discussed. 3:3:4
- BI 114 General Biology**
Selected principles of biology including molecular and cellular biology, homeostatic mechanisms, and systematics are discussed. Prerequisite: BI 111 or permission of the instructor. 3:3:4
- BI 122 Human Nutrition**
A discussion of the basic requirements of nutrition necessary for good health. Agencies which regulate foods are discussed. Dietary needs of special groups and ages are addressed. 3:0:3
- BI 210 The Human Body**
Structure and function of the principal systems of the human body. Topics include: muscular, nervous, skeletal, circulatory, digestive, endocrine, and urinogenital systems. 3:0:3
- BI 211 Human Anatomy and Physiology I**
A study of the structure and function of the human body at the cellular through system level of organization. Laboratory emphasis is on the gross structure of muscular, nervous and skeletal systems. 3:3:4
- BI 212 Human Anatomy and Physiology II**
A continuation of BI 211. Emphasis is placed on the circulatory, digestive, endocrine and urinogenital systems. Prerequisite: BI 211 or equivalent. 3:3:4
- BI 214 Personal and Community Health (MGE)**
Educational in nature with emphasis on personal hygiene, community health and health education, this course covers diverse topics such as wellness, mental health, stress, nutrition, weight management, communicable disease, non-communicable disease, reproductive health, parenting, substance abuse, aging, and ecology. Socioeconomic and sociocultural factors that impact the wellness of specific cultural groups will also be discussed. This course does not count toward a biology major. 3:0:3
- BI 223 Clinical Microbiology**
A study of microorganisms that commonly affect man, including their morphology, physiology, taxonomy, and ecology. Epidemiology of representative diseases and other applied aspects are discussed. Emphasis in the lab is on techniques: staining, culturing, and standard identification methods. Prerequisite: CH 105 or permission of instructor. 3:3:4
- BI 225 Botany**
A study of the plant kingdom with an emphasis on the structure and physiology of the flowering plants. Prerequisite: BI 114 or permission of the instructor. 3:3:4

- BI 226** **Zoology**
 This course is a broad introduction to Kingdom Animalia. The anatomy, physiology, systematic, evolution, and ecology of animals will be discussed. Laboratory will include dissection, microscopic and macroscopic examination of organisms representative of the major animal phyla. Prerequisite: BI 114 or permission of the instructor. 3:3:4
- BI 231** **Introductory Molecular Cell Biology**
 An introductory course in cell structure and function at the molecular level. Topics include cell structure; the flow and transduction of mass, energy, and genetic information; genetic engineering; and regulation of cell growth. Prerequisites: BI 114, CH 108 and CH 108L. 3:0:3
- BI 300** **Evolution (LL)**
 A study of the historical development of the concept of natural selection and modern concepts of evolution. 3:0:3
- BI 301** **Human Ecology (LL)**
 The relation of man to his physical and biological world. Topics include population, food, supply, energy, industry, pollution, and natural resources as well as the cultural patterns of humans and their effects on the environment. 3:0:3
- BI 304**
(PS 304) **Ethology**
 A study of the behavior patterns of animals. Ethological methods, neural and evolutionary mechanisms are stressed. Topics include sensory perception, motor programs, orientation, communication, sexual selection, and animal societies. A research paper or project is required. Prerequisites: BI 111 or PS 101 and consent of instructor. 3:0:3
- BI 306** **Biological Literature**
 A one-semester study of the biological thoughts and the methods of biological communication. Emphasis is placed on the acquisition and use of biological literature. Writing and evaluation of scientific papers is stressed. This course is to be taken during the junior year. The course will satisfy the EN 306 requirement for Biology and Athletic Training majors. Prerequisites: EN 105, EN 106, passing WCT and 60 accumulated hours. 3:0:3
- BI 318** **Introduction to Genetics**
 A study of the principles of heredity and variation in both plants and animals including man. Modern theories of gene action are stressed. Suggested Prerequisite: BI 106 or equivalent. 3:0:3
- BI 320** **Genetics**
 A study of the principles of heredity and variation in both plants and animals including man. Modern theories of gene action are stressed. Laboratory work is included. Prerequisites: BI 231, CH 317 and CH 317L. 3:3:4
- BI 326** **Ethics in Science**
 An examination of the complex ethical issues that arise as a result of modern science. Issues such as genetic therapy, cloning and stem cell research, death and dying, reproductive technologies, genetic privacy, and the allocation of resources will be examined. Topics that arise from the use of humans and other animals in academia and research will also be discussed.

The course will include a general overview of ethical theories, moral and religious attitudes from different cultures, and the fundamental principles of scientific integrity. (3:0:3)

- BI 330
(GO 330)** **Paleobiology**
The study of the earth's past life, which will be examined in two parts: 1] an introduction to invertebrate and vertebrate paleontology that will focus on classification, relationships, and evolutionary history and 2] the uses of paleontological data in evolution, systematics, paleoecology and extinctions. 3:2:4
- BI 337
(CH 337)** **Biochemistry**
Biochemical systems and the relation of chemical structure to biochemical function are discussed. Prerequisites: CH 318 and CH 318L. 3:0:3
- BI 337L
(CH 337L)** **Biochemistry Laboratory**
(Co-requisite: BI 337. 0:3:1)
- BI 340** **Comparative Anatomy**
A study of the phylogeny and gross structure of the organ systems of the vertebrates. Major systems of the shark and cat are dissected and correlations are made with other groups of vertebrates. Prerequisite: BI 226. 3:3:4
- BI 342** **Embryology**
The principles of vertebrate embryonic development are discussed. Consideration is given to the origins of the modern theories of development. The embryology of the frog, chick, and pig is included in the laboratory. Prerequisite: BI 226. 3:3:4
- BI 344** **Animal Physiology**
A study of living processes as they occur in cells, tissues, and systems in vertebrates and invertebrates. Laboratory work is correlated with classroom discussion. Prerequisites: BI 226 and CH 108, or permission of the instructor. 3:3:4
- BI 350** **Microbiology**
A study of the biology of the major groups of microorganisms. Research skills are stressed in the laboratory. Prerequisites: BI 231 and CH 317L. 3:3:4
- BI 351
(CH351)** **Introduction to Pharmacology and Pharmacy**
A non-laboratory course intended for athletic training majors. Emphasis is placed on the types and classification of drugs, their modes of action at the cellular, systemic, and organismal level, their contraindications and possible long term effects. Prerequisites: BI 120 and CH 108 and CH108L or CH 105. 3:0:3
- BI 360** **Cell Biology**
A study of ultrastructure of the cell and its organelles. Laboratory includes studies in molecular biology and tissue culture. Prerequisites: BI 231, CH 317 and CH 317L. 3:3:4
- BI 378** **Ecology**
A study of the interrelationships between organisms and their environment. Laboratory is included. Prerequisites: BI 114 and CH 107. 3:3:4

- BI 380** **Issues in Biodiversity (MLL)**
An introduction to biodiversity from the perspective of ecosystems and the biosphere. Topics covered include extinction, characteristics, special problems of the various biomes, conservation economics, endangered species management, and theory of nature preserve design. 3:0:3
- BI 417** **Developmental Biology**
A study of the molecular and cell biology of pattern formation in developing embryos. Systems surveyed include *Drosophila*, sea urchin, frog, salamander, chicken, and human. Prerequisites: BI 231, CH 317 and CH 317L. 3:0:3
- BI 422** **Individual Research and Independent Investigation**
A small original biological investigation and a written report of the findings, prepared in proper form. Prerequisite: permission of instructor. Variable credit 1-3 hours.
- BI 470** **Internship in Biology**
Practical work experience in biology in an industrial, academic or other setting. Internship must be approved by the instructor prior to starting work. Variable credit: 1-4 hours.
- BI 490** **Advanced Topics in Biology**
Selected topics in biology. Topics left to the discretion of the instructor and student. Plant taxonomy, histology, cellular physiology, advanced field ecology, entomology, etc. are possible topics. Laboratory work may be required. May be repeated for credit if topics differ. Prerequisite: permission of instructor. Variable credit: 1-4 hours.

CA-COMMUNICATION ARTS (H)

- CA 103** **Public Speaking (GE)**
A development of the ability to speak clearly and express ideas effectively before an audience. Students plan, compose, and deliver various kinds of speeches and talks. Principles of effective rhetorical presentation are related to basic purposes and forms of public speech-communication. 3:0:3
- CA 104** **Interpersonal Communication I (GE)**
An introduction to the knowledge and skills of interpersonal communication. The course content includes facilitation of more effective and supportive behavior, reduction of communication barriers and development of increased skill and confidence in relationships. 3:0:3
- CA 115** **Introduction to Electronic Communication**
A survey of the emerging vehicles of electronic communication from Internet to radio and television. Includes discussion of how electronic communication affects the audience research and the methodology used to analyze the effect, introduction to the skills of electronic communication, and consideration of the specific ethical issues often associated with electronic images. 3:0:3
- CA 125** **Journalism Workshop**
This course provides an opportunity for freshman and sophomores to participate in professional writing in a guided environment for credit. Variable credit. 1-3 hours.

- CA 201** **Reporting I**
This course focuses on the fundamentals of reporting. It discusses techniques of fact gathering and news writing and provides opportunities to develop those skills through practical application. 3:0:3
- CA 218** **Public Relations**
A study of the dissemination of public information through mass media; intraorganizational information; public opinion analysis, research techniques to establish psychographics within groups, applications in business, government, education, and politics. 3:0:3
- CA 221** **Radio Production**
Orientation in the basic techniques of radio performance and production. Major emphasis on radio announcing skills and basic editing techniques. Students learn news writing and newscast performance skills. Students work on KGSP-FM. 3:0:3
- CA 231** **Television Production**
An introduction to basic television production techniques. Students will produce news and feature stories for Cable Channel 2. Orientation will include a look at basic news and script writing techniques, and will include instruction on use of video equipment and videotape editing. Students will learn basic producing and directing skills. 3:0:3
- CA 240** **Popular Photography**
A lecture and discussion course covering the fundamentals of photography. Students must provide an acceptable camera, expendable supplies, and arrange for outside processing and printing. Lab demonstrations will be a part of the course but students will not receive darkroom training. Designed for accelerated program students. Students who need or desire dark room practice should enroll in CA 241. 3:0:3
- CA 241**
(AR241) **Photography I**
An introduction to the basic techniques of black and white photography. Cameras, lenses, films, lighting, composition, etc, are discussed. Students must provide an acceptable camera and expendable supplies. Darkroom work is required and a darkroom fee is charged. Prerequisite: Permission of instructor. 2:6:4
- CA 242** **Color Photography**
Special problems of basic color photography in terms of color picture taking and printing. Students must provide acceptable camera and supplies. Darkroom work is required and a darkroom fee is charged. Prerequisite: CA 241 or equivalent. 3:0:3
- CA 250** **Special Topics in Communication Arts**
This course is for students interested in writing, editing, or photography in a magazine format. This course is for those who want to apply what they learned in Advance News and Feature Writing: Layout, Editing and Design, or Photojournalism to magazine. It provides an opportunity to hone each of those skills. Non-majors are welcome. 3:0:3
- CA 301** **Interpersonal Communication II**
A study of the nature of and problems in communication. Areas of study include: mental process in communication, perception, content, amount of communication, interpersonal and task behaviors, norms, conflict, creativity, touch, distance, time usage, manipulation of environment, intervention,

attitude change and opinions, and how communication fosters attraction, productivity and leadership. The course focuses on the development of a framework for analyzing the various approaches to interpersonal communication. Prerequisite: CA 104. 3:0:3

- CA 302 Communication Ethics and Law**
A study of laws and ethics for journalists and other communicators. The course will analyze libel law, privacy, and objectivity, responsibility, freedom of speech and censorship, and the role of the press in society. 3:0:3
- CA 311 Editing, Layout and Design**
Study and practical application of editing news, features, and investigative stories. Includes rewriting, headline writing, and the principles of layout and design. 2:2:3
- CA 313 Script Writing Workshop**
This course is designed to acquaint the student with various types of scriptwriting; news, entertainment, documentary, commercials, copywriting, educational, industrial and dramatic. Students will write original scripts for production in selected media. For students with exceptional preparation, this may be a theatrical feature, series pilot, TVM, or mini-series lead show. 3:0:3
- CA 315 Journalism Practicum**
Directed work on the staffs of student publications. The Stylus editor may enroll for 4 credit hours. Variable credit:1-3 hours.
- Section A:** News and Feature Writing
Section B: Newspaper and Magazine Editing
Section D: Photojournalism
Section E: Advertising
Section F: Computer Design
Section G: Magazine Journalism
Section H: Web Page Design and Maintenance
- CA 316 Reporting II**
Course focuses on an in-depth reporting and analysis of news and community issues. Students learn how to cultivate techniques for both print broadcast journalism are discussed. 3:0:3
- CA 317 Feature Writing**
This course provides an opportunity to develop writing skills in the gathering and creation of in-depth magazine and news features. Primarily focused on writing, it aims to develop the student's voice and style in print. 3:0:3
- CA 318 Public Relations II**
Advance study of persuasive communications with emphasis on design and execution of public relations campaigns, the role of the public information officer, development of the comprehensive information package, and creation of effective internal publications. Includes discussion of specific ethical issues of persuasive communications. 3:0:3
- CA 321
(PC 321) Interpersonal Conflict Solution (LL)**
Presents various strategies for dealing with conflict in a positive manner. Emphasizes the development and practice of skills of listening, assertiveness, problem solving, conflict management, and mediation. 3:0:3

- CA 322 Theory and History of Mass Media (LL)**
Analysis of mass media content and the role media play in modern society. The course includes study of the history of that role, functions of the media, effects on society, and the persuasive abilities of media. This course focuses on contemporary media criticism and related ethical issues. 3:0:3
- CA 325 Radio Practicum**
Under faculty supervision, students are assigned staff responsibilities for the operation of the radio station KGSP-FM. The student will gain working experience on operating this station for actual broadcasting to the public. Prerequisites: CA 221. Variable credit: 1-4 credits
- CA 330 Multicultural Communication (MLL)**
A study of communication and culture that examines cultural variability in interpersonal relationships. Emphasis is placed on facilitation of more effective communication episodes across gender, race, life-styles, culture and other barriers. 3:0:3
- CA 335 Television Practicum**
Students work as staff members of Northland News, a cable TV show produced, reported, written, and anchored by Park students. Emphasis is placed on writing and reporting skills. Students will also produce original programming to air over Cable Channel 2. Prerequisite: CA 231. 1:9:3
- CA 341 (AR 341) Photography II**
This course explores the language of photography with particular attention to the photographic essay and the photographic illustration. Both black and white and color photography are included. A variety of techniques in photographic printmaking are explored with an emphasis on self-expression and craft. A lab fee may be required. 3:0:3
- CA 380 (MK 380) Advertising**
Designed to give the student an understanding of the creation, design, and production of material for advertising campaigns in all media. Suggested Prerequisite: MK 351 or equivalent. 3:0:3
- CA 385 (MK 385) Consumer Behavior**
An integrated approach to the study of various behavioral concepts and theories useful for understanding consumer behavior and its relevance to the development of effective marketing strategies. 3:0:3
- CA 390 Marketing Planning**
A course designed to analyze the process of planning or implementing and controlling promotional efforts in retail, wholesale, manufacturing, finance, service, and nonprofit organizations. Prerequisite: MK 351. 3:0:3
- CA 400 Interviewing Theories and Practice**
Development and analysis of the interviewing process from the viewpoints of the interviewer and the interviewee. Consideration is given to strategies, ethics, and the interview as a management tool, and broad understanding of the communication variables involved in the interviewing context. Both practical and theoretical perspectives are examined. 3:0:3
- CA 402 Organizational Communication**
Examines the role of communication in organizations and the people and patterns making up the many sides of complicated issues, which arise in organizational life. The course also examines the communication messages

sent and received within an organization including the organization's formal structure and its informal social groups. Prerequisite: CA 104. 3:0:3

- CA 404 Seminar: Special Topics in Group Interaction**
 Revolving topic seminar for advanced students, which may be repeated under different topic headings. Topics deal with such matters as social responsibility in mass media, effects of technological change upon communication industry, film criticism, promotional strategies and case studies, or possibly issues and problems in broadcast management or public relations. Advanced standing or permission of instructor. 3:0:3
- CA 420 Human Relations in Group Interaction**
 A course designed to facilitate the authentic exploration of feelings and communication obstacles. The focus is on interaction and interdependency in the small group context. Advanced standing or permission from the instructor. 3:0:3
- CA 441 Photojournalism**
 Learn to use the camera to tell a story with a single photograph or with a series. The course is directed toward newspapers, but includes magazine photography. Prerequisite: CA 241 or equivalent competency. 3:0:3
- CA 450 Seminar: Special Topics in Journalism**
 Specialized study and practice in various aspects of print journalism. May be repeated for credit when topics are changed. [Topics may include Investigative Reporting, Feature Writing, Editorial and Interpretive Writing, History of Journalism, Advanced Layout and Design.] Advanced standing or permission of instructor. 3:0:3
- CA 455 Seminar in Journalism Education**
 The course explores the methods in journalism education, the needs the student journalists and professional standards sought by journalists in the field. 3:0:3
- CA 490 Communication Arts Internship**
Section A: Journalism
 Extensive work, either under faculty or professional supervision. Three credit hours required on the staff of an area publication; additional credit hours may be earned by repeating the course using more advanced activities. Prerequisites: CA 311 and at least 3 hours of CA 315. Variable credit: 3-9 hours.
- Section B: Broadcasting**
 Involves extensive work off campus in a professional environment with direct supervision by employers. Students function in a "real job" capacity with media employers such as commercial radio and television stations, corporate, and religious settings. Prerequisites: permission of the Communications Arts Faculty. Variable Credit: 3-6 hours.
- Section C: Human Resources and Public Relations**
 Students gain extensive experience in organizational settings including social service agencies, nonprofit companies and corporate environments. Credit can be earned for work in public relations, advertising, marketing, consulting, and related areas. Prerequisite: permission of the communication Arts faculty. Variable credit: 3-6 hours.

CA 491

Senior Project

This course may not be taken before senior year. It is a capstone course in which the student designs a practical project aimed at publication in a commercial newspaper or magazine (or broadcast outlet), researches the project, completes the writing (or broadcast production), and may offer it to the appropriate editors. 3:0:3

CH-CHEMISTRY (NS)

CH 101

Chemistry in the World (MGE)

This course is designed to acquaint non-science majors with the impact of chemistry on their world. This course provides a general introduction to both inorganic and organic chemistry and stresses applications of chemistry in the commercial, industrial and technological components of society. 3:2:4

CH 102

Contemporary Chemistry

CH 102 will introduce the non-science major to the impact that the science of chemistry has on their world. The course provides a general introduction to the principles of the science of chemistry, in the commercial, industrial, and technological components of society. 3:0:3 (Taught in accelerated programs only).

CH 105

Introductory Chemistry (MGE)

A survey of general chemistry, organic chemistry, and biochemistry. Basic principles as applied to health science will be covered. The lab will be a practical application of the principles covered in lecture. 4:3:5

CH 107

Introduction to Chemistry I (MGE)

An introduction to chemistry by developing fundamental tools such as problem solving methods and the concept of the mole. Major topics covered will include stoichiometry, atomic and molecular structure and the states of matter. Three lectures and one hour discussion per week. Prerequisite: high school algebra or equivalent. Co-requisite: CH 107L (except in accelerated programs). 3:0:3

CH 107L

Introduction to Chemistry Laboratory I

Students are introduced to basic laboratory techniques. Experiments will reinforce materials covered in the lecture components of this course. Co-requisite: CH 107. 0:3:1

CH 108

Introduction to Chemistry II

A continuation of CH 107 with major topics covered including solutions, chemical kinetics, thermodynamics, equilibria, and an introduction to descriptive chemistry. Three lectures and one hour discussion per week. Prerequisite: 'C' or better in CH 107L or permission of instructor. Co-requisite: CH 108L. 3:0:3

CH 108L

Introduction to Chemistry Laboratory II

A continuation of CH 107L with experiments relating to kinetics, equilibria, thermodynamics, and qualitative analysis. Prerequisite: 'C' or better in CH 107L or permission of instructor. Co-requisite: CH 108. 0:3:1

CH 300

Chemistry Seminar (LL)

A series of case studies of legal, economic and social problems occasioned by the advance of science and technology in contemporary society. Open to all students. 3:0:3

- CH 301** **Chemistry and Society (MLL)**
The history and nature of the science of chemistry with emphasis upon its role as a human activity and its relationship to humanity. Open to all junior and senior level students. 3:0:3
- CH 306** **Chemical Bibliography**
Access to the chemical literature is surveyed. The use of index journals, primary and secondary sources, the patent literature, the online search, and the literature organization is explained and illustrated. Submission of a written, formal proposal of an original research problem, together with the records of the literature search validating the proposal, is required. This course will satisfy the EN 306 requirement for Chemistry and the Athletic Training majors. Prerequisites: EN 105, EN 106, passing the WCT and 60 accumulated hours. 3:0:3
- CH 310** **Introduction to Inorganic Chemistry**
Instruction in the modern synthetic and instrumental techniques currently used in inorganic chemistry. Prerequisite: CH 108. 3:3:4
- CH 317** **Organic Chemistry I**
An introduction to the chemistry of carbon based compounds. Nomenclature, structure, bonding, and reaction mechanisms of organic importance in pharmaceuticals. Prerequisite: CH 108; Co-requisite: CH 317L (except in accelerated programs.) 3:0:3
- CH 317L** **Organic Chemistry Laboratory I**
Introduction to lab techniques in organic chemistry; extraction, purification, and chromatographic analysis. Basic qualitative analysis of functional groups and separation of compounds of different functional groups. Co-requisite: CH 317. 0:4:1
- CH 318** **Organic Chemistry II**
Application of principles learned in CH 317 to members of each homologous series. Importance of organic compounds in our daily lives. Introduction to bio-organic chemistry (amino acids, nuclear bases, carbohydrates, lipids). Prerequisite: CH 317 Co-requisite: CH 318L 3:0:3
- CH 318L** **Organic Chemistry Laboratory II**
Application of techniques learned in 317L to carry out synthesis. Modifications of introduction of functional groups of a given substrate. Co-requisite: CH 318. 0:4:1
- CH 321** **Introduction to Medicinal Chemistry**
This course covers an introductory level medicinal chemistry. The following topics will be covered; drug development process; drug approval processes; receptors; drug interaction; pharmacodynamics; pharmacokinetics, quantitative structure activity relationships. Some of the following classes of drugs will be discussed in detail - antibacterial drugs; drugs that work on the central nervous system, analgesics, etc. Case studies of current drugs going through approval process. Prerequisite: CH 318. 3:0:3
- CH 328** **Analytical Chemistry**
An in-depth study of classical analytical chemistry techniques. Subjects include the statistical evaluation of data, gravimetric and titrimetric methods of analysis, acid-base chemistry, complexation chemistry, and redox process. Laboratory includes practical examples of the methods covered in lecture. Prerequisites: CH 108 and CH 108L. 3:4:4

- CH 329** **Introduction to Instrumental Analysis**
An introduction to modern instrumental chemical analysis. The course will span theory of operation, instrument design and methodology, and applications of instrumental techniques. Electrochemical methods including potentiometry, voltammetry, and coulometry; spectroscopic methods including infrared, UV/VIS, and NMR; chromatographic methods including gas, liquid and thin layer; thermal methods of analysis and kinetic methods of analysis will be covered. Prerequisite: CH 328 3:3:4
- CH 337** **Biochemistry**
(BI 337) Biochemical systems and the relation of chemical structure to the biochemical function are discussed. Prerequisite: CH 318. Co-requisite: CH 337L. 3:0:3
- CH 337L** **Biochemistry Laboratory**
(BI 337L) (Co-requisite: CH 337. 0:3:1)
- CH 351** **Introduction to Pharmacology and Pharmacy**
(BI 351) A non-laboratory course for athletic training majors. Emphasis is on the types and classifications of drugs, their modes of action at the cellular, systematic, and organismal level, their contraindications and possible long-term effects. Prerequisites: BI 120 and CH 108 and CH 108L or CH 105. 3:0:3
- CH 400** **Special Topics in Chemistry**
A seminar devoted to selected topics in modern chemistry of interest to students requiring more depth in the field. The course may involve laboratory work. Permission of instructor. Variable credit: 1-4 hours.
- CH 405** **Fundamentals of Physical Chemistry**
A one-semester survey of physical chemistry for students not intending to pursue advanced work in chemistry. Topics include an introduction to thermodynamics, phase equilibria, chemical equilibrium, electrochemistry, kinetics, atomic structure, bonding, and molecular spectroscopy. Prerequisites: MA 211 and PY 206 or concurrent enrollment therein. 3:3:4
- CH 407** **Physical Chemistry I**
An introduction to quantitative chemical theory. The primary emphasis will be in the areas of thermodynamics will be applied to phase and chemical equilibria. Prerequisites: CH 108, PY 206 and MA 211. Co-requisite: MA 212. 3:3:4
- CH 408** **Physical Chemistry II**
A continuum of quantitative chemical theory. Topics covered will include the chemical kinetics and quantum chemistry. Modern theories of atomic and molecular structure will be investigated. Prerequisites: CH 407 and one of the following: MA 213, MA 302, or MA 311. 3:3:4
- CH 429** **Advanced Analytical Chemistry**
Advanced methods of chemical analysis stressing, but not limited to, the instrumental techniques. An in-depth study of the theory of electrochemical measurements, spectroscopic techniques, and chromatographic theory will be covered. Students will be introduced to several modern techniques including Raman, X-ray, and flame and furnace atomic absorption spectroscopy, thermal methods analysis and NMR techniques. Some applications of advanced methods of classical analysis will be covered. Prerequisites: CH 318, CH 329. 3:4:4

- CH 440** **Organic Synthesis**
In depth study of various classes of reactions on different classes of organic compounds. Applications of those reactions in synthesis and retrosynthesis of natural products and importance of medicinal chemistry. Lab involved multistep procedures and qualitative analysis of organic compounds based on their chemical properties. Prerequisite: CH 318. 3:6:5
- CH 451** **Internship to Chemistry**
Practical work in chemistry in an industrial, academic or other professional setting. Prior to the start of work, the department must approve the internship. Variable credit: 1-6 hours.
- CH 490** **Research in Chemistry**
Open to advanced chemistry majors with permission of the instructor. Variable credit: 1-3 hours.

CJ-CRIMINAL JUSTICE (SS)

- CJ 100** **Introduction to Criminal Justice Administration (MGE)**
This course is an introduction to the history, nature, structure, and function of the criminal justice system in America, with comparisons to systems in other nations. Examinations of the various aspects of the administration of the justice systems, including law enforcement, courts, correctional agencies (including probation and parole), and including the increasing role of private entities in the system will be conducted. 3:0:3
- CJ 105** **Criminal Law**
This course is a survey of the history and nature of criminal law in the United States. Substantive Criminal Law, defenses, and criminal responsibility will be studied within the context of the criminal justice process and rules of evidence. 3:0:3
- CJ 200**
(SO 200) **Criminology**
This basic course provides an examination of the nature and extent of crime and theories of crime causation, as well as the societal reaction of criminal behavior will be covered in this class. 3:0:3
- CJ 205** **Juvenile Delinquency**
This is an introduction to the origins, philosophy and objectives of the Juvenile justice system. Focus is on the operation, legal processes, current trends, and roles of the various actions within the juvenile justice system. 3:0:3
- CJ 220** **Criminal Justice and the Community**
This basic course emphasizes programming techniques for benefiting the agency-citizen relationship. Prominence is placed on utilizing the resources of the criminal justice agencies to engage in effective conflict resolution with citizens, develop citizen and agency awareness, community crime prevention and community relations. 3:0:3
- CJ 221** **Criminal Procedure**
This basic course examines the procedures to be followed in law enforcement, the courts, and the corrections in the processing of the criminal case, from the crime to the end of punishment. The law of search and seizure and the right to counsel in each of the three segments of the criminal justice system are among the topics that will be examined. 3:0:3

- CJ 231 Introduction to Law Enforcement**
This is an introduction to the law enforcement segment of the criminal justice system, with an examination of the history and development of law enforcement, especially in the United States. The various job and career opportunities in law enforcement will be reviewed. 3:0:3
- CJ 232 Introduction to Corrections**
This basic course discusses correctional concepts from their historical background to the present. An emphasis will be placed on the multi-faceted approach to corrections in our society, including the use of alternatives to incarceration. 3:0:3
- CJ 233 Introduction to Security**
This course covers the basic principles of security and loss prevention that is common and fundamental to all areas of protection of personal property from historical and modern day points of view. Topics of discussion will include: the security industry, the threat environment, risk analysis, fundamentals of physical security, safety, and accident prevention, and common security problems. 3:0:3
- CJ 250 Selected Topics in Criminal Justice**
This course is a specialized introductory study of a particular subject in criminal justice that is not otherwise available in the criminal justice department. The course may be repeated for credit when topics are changed. 3:0:3
- CJ 300 Agency Administration**
This intermediate course examines management models, administrative techniques and patterns or organizational structure characteristic of criminal justice agencies. Prerequisites: CJ 100 and either CJ231, CJ232, or CJ233. 3:0:3
- CJ 302 Media and Criminal Justice (MLL)**
This is an advanced level, interdisciplinary course wherein students will learn about the relationship between the media and various elements of the criminal justice system. It is team-taught by experts in communication arts and criminal justice. 3:0:3
- CJ 310 Leadership and Team Building (MLL)**
This intermediate course examines the principles of leadership and team building, with an application of the principles of real life situations will be implemented. Exercises to use in building a team will be developed. 3:0:3
- CJ 311 Criminal Investigation**
This intermediate course includes a discussion of the nature and purpose of criminal investigation, historical background, tools employed skills development, and techniques useful in the reconstruction of criminal activity. Prerequisites: CJ 100 and CJ 105 3:0:3
- CJ 312 Criminalistics**
This intermediate course covers topics such as the discovery, recognition, observation, identification, and collection and comparison of physical evidence, including a review of various current techniques in the testing of physical evidence. Prerequisites CJ100 and CJ105 3:0:3

- CJ 313 The Law of Evidence**
This intermediate course examines the rules of evidence as they relate to the prosecution and defense of criminal cases, general provisions, judicial notice, presumptions, relevancy, privileges, witnesses, hearsay, expert testimony, authentication, and identification. 3:0:3
- CJ 315 Special Topics in Criminal Justice**
This advanced course is a specialized study of a particular subject in criminal justice not otherwise available in the department. This course may be repeated for credit when topics are changed. Prerequisites: permission of instructor and at least junior standing. 3:0:3
- CJ 322 Probation, Parole, and Community Corrections**
This intermediate course explores the use of probation and parole as alternatives or as adjuncts to confinement. The rules and functions of the parole and probation system and their supervision are discussed. Various techniques and methods for achieving the goals are considered, including community related programs. Prerequisite: CJ 232. 3:0:3
- CJ 323 Corrections Management**
This intermediate course examines the principles, problems, and trends in the correctional administration and management, methods of achieving organizational change and the evaluation of correctional units. Prerequisite: CJ 232. 3:0:3
- CJ 332 Industrial Security**
This intermediate course examines the principles, methods, requirements, and standards for industrial security systems. Prerequisites: CJ 233. 3:0:3
- CJ 333 Security Administration**
This intermediate course examines organization and management of security programs in business, government and industry with emphasis on selection and implementation of security. Prerequisites: CJ 332. 3:0:3
- CJ 350 Criminal Justice Management and Planning**
This intermediate course examines budgeting, personnel, and planning. This course is designed to develop a working knowledge of management planning in criminal justice. Prerequisite: CJ 300. 3:0:3
- CJ 365 Financial Investigations (MLL)**
This intermediate course studies how current perspectives dominate in the field of financial investigations. Discussions of the concepts of law and evidence, sources of information, accounting, methods of tracing funds, banking and financial record keeping, and interviewing as they apply to detecting and resolving financial crimes will be discussed. Primary emphasis will be placed on theoretical principles and applications of financial investigative techniques. 3:0:3
- CJ 400 Constitutional Law in Criminal Justice**
This advanced course is an in-depth study of the U.S. Constitution as it applies to law enforcement, the courts, and corrections, including an examination of recent decisions by the U.S. Supreme Court. Prerequisite: Junior standing. 3:0:3
- CJ 420 Forensic Science**
This advanced course is a theoretical and practical examination of techniques in the identification, examination, and comparison of physical

evidence using both historical and current methods. Laboratory performance is a portion of the coursework. Prerequisite: Senior standing or permission of the instructor. 3:0:3

- CJ 425 Comparative Criminal Justice Systems (MLL)**
 This advanced course is an in-depth examination of criminal justice systems other than the U.S. system. The course allows students to make comparisons of these systems to the U.S. system. Prerequisites: Senior standing and permission of the instructor. 3:0:3
- CJ 430 Research in Criminal Justice**
 This capstone course is an examination of the research methods with application most commonly utilized in criminological and criminal justice research. Development and implementation of an original data-gathering instrument is required. A paper summarizing and evaluating the data-gathering instruments and comparing the data to published articles is required. Prerequisites: MA 120 and senior standing. 3:0:3
- CJ 440 Internship in Criminal Justice**
 This capstone course provides practical application through service with a criminal justice agency. Opportunities are available in both the public and private sectors. Prerequisites: permission of department chairperson. Variable credit: 3-6 hours.
- CJ 450 Senior Seminar in Criminal Justice**
 This capstone course addresses current issues and trends in criminal justice with emphasis on group discussion. Each student will be required to prepare, submit and defend a senior thesis. Successful completion of the thesis is mandatory. This course will satisfy the EN 306 requirement for Criminal Justice majors. Prerequisites: EN 105, EN 106, passing the WCT and senior standing. 3:0:3
- CJ 451 Senior Writing Project**
 This capstone course is individualized instruction for the student to examine a current issue or trend in criminal justice, culminating in the preparation, submission and defense of a senior thesis. Successful completion of the thesis is mandatory. This course will satisfy the EN306 requirement for Criminal Justice majors. Prerequisites: EN 105, EN 106, passing the WCT and senior standing. 3:0:3
- CJ 460 Senior Honors Thesis**
 This advanced course allows the student to make a special investigation into a specific area of criminal justice administration. The student will have completed the major courses in his/her program before enrolling in this course. Prerequisites: CJ 430, senior standing, 3.2 G.P.A, and permission of instructor. 3:0:3

CO-CONSTRUCTION (SS)

- CO 111** **Introductions to Engineer Construction Technology/Design/and Materials**
Introduction to the field of engineering calculations, technical reporting, presentation of data, and the fundamental steps of construction designs. Emphasis will be on the analysis, identification, selections and specifications of the materials of construction required to achieve the desired project quality. 3:0:3
- CO 121** **Plans Analysis**
Introduction to the architectural, structural, and mechanical requirements as they relate to the construction field. Emphasis is on the blueprint interpretation, craft resources, material requirements, code compliance, and work scheduling. 3:0:3
- CO 215** **Construction Safety and Health**
Orientation and enforcement of the construction trades sub-parts of the Occupational Safety and Health Act. The student will develop knowledge in record-keeping requirements and the recognition, avoidance, and prevention of safety hazards within construction trades. 3:0:3
- CO 225** **Building Codes**
Basic principles and methods significant in contract relationships and appreciation of the legal considerations in construction work. Emphasis is placed on the National Building Code and its application to local situations. 3:0:3
- CO 235** **Construction Planning**
Basic construction management functions: preparation of work schedules, requests for progress payments, evaluation of alternative methods of construction, and equipment usage. 3:0:3
- CO 245** **Construction Estimating**
Basic cost estimating of construction projects. Topics include types of estimates, quantity take off, unit price, material and labor costs, overhead, profit contingencies, job cost data sources, and cost indices. 3:0:3
- CO 360** **Critical Path Analysis**
Study of planning and control of a schedule by network techniques including the time cost analysis of CPM scheduling for application on construction projects, job shop scheduling, and related problems. Prerequisite: CO 235. 3:0:3

CS-COMPUTER SCIENCE (NS)

- CS 140** **Introduction to Computers (MGE)**
This course introduces computer concepts, terminology, and applications to enable students to use computers in their environment and career. This class will feature lectures, written assignments, and demonstrations of computer concepts. The lab will concentrate on hands-on computer lab projects using the dominant Windows operating system and Office

applications. Software will include Word, Excel, Access, PowerPoint, and Internet browsers. Students will be introduced to the structure and use of personal computer hardware, peripherals, comparison of popular operating systems, recent history of technology and some ethical implications. 3:0:3

CS 144

Beginning Programming with Multimedia Projects

This course introduces students to the fundamentals of programming and design using multimedia projects. In a “hands-on” class, students will use pseudocode design and the three programming constructs (sequence, selection, and repetition) in creating GUI screen interfaces and web pages. Students will learn how to combine text, graphics, audio, video, and animation in their projects. 3:0:3

CS 151

Introduction to Programming

This course introduces students to algorithmic design and structured/modular programming. Programming concepts will be put into practice by using Java for programming projects. These basic programming concepts and constructs will be covered: variables, data types, strings, arithmetic and logical operators, branching statements, loops, and debugging. Additionally, these object-oriented programming concepts will be covered: classes, instance variables, methods, and constructors. Prerequisite: MA 131 (or equivalent) or CS144 or permission of instructor. 3:0:3

CS 208

(MA 208)

Discrete Mathematics

This course introduces the student to selected finite systems pertinent to the study of computer science. Course topics will include the following: mathematical induction, sets, relations, functions, matrices, graphs, trees, combinatorial analysis, Boolean algebra, and other structures. Prerequisite: Any math course > MA 131. 3:0:3

CS 215

Selected Topics in Computers

This course provides an in-depth study into a particular area of computers. CS 215 may be repeated once for credit for a different course topic. Prerequisite: dependent upon course topic. 3:0:3

CS 219

Programming Fundamentals

This course continues the development of the programming and problem solving skills introduced in CS 151. Programming concepts will be put into practice by using Java for programming projects. Students will learn about object-oriented programming and two of its key components - inheritance and polymorphism. Additionally, students will learn about these topics: graphical user interface components, event driven programming, exception handling, files. Prerequisites: Any math course \geq MA 131, a grade of ‘C’ or better in CS 151. Suggested Prerequisite: CS 140. 3:0:3

CS 220

Computer Architecture

The student will learn about the various hardware components of a computer system. Course topics include: data representation, number systems, Boolean algebra, combinational logic, sequential logic, CPU layout, registers, adders, buses, and memory devices. Prerequisites: CS 208, CS 219. 3:0:3

CS 225

Programming Concepts

This course continues the development of the programming and problem solving skills introduced in CS 219. Programming concepts will be put into practice by using C++ for programming projects. Since C++ is so similar to Java and since students should already know Java from their prerequisite

courses, this course will cover C++ basics (control constructs, operators, data types, functions) very quickly. More time will be spent on those features of C++ that differ from Java. For example, more time will be spent on pointers, object-oriented programming techniques, and operator overloading. Prerequisite: A grade of 'C' or better in CS 219. 3:0:3

- CS 300** **Technology in a Global Society (MLL)**
 This course presents the social, political, economic, multicultural, and ethical issues surrounding the use of computers and computer technology. Course work includes class discussion, readings, collaborative projects and formal term papers on selected topics. 3:0:3
- CS 301** **Assembly Language**
 The student will learn to program in assembly language. The student will work with binary and hexadecimal numbering systems, computer architecture, and an assembly language instruction set(s). The student will write assembly language programs. Prerequisites: CS 220 and CS 352. 3:0:3
- CS 305** **Introduction to Artificial Intelligence**
 The student will learn the terminology and methods used in a variety of artificial-intelligence (AI) areas. These topics will be covered: history of artificial intelligence, search techniques, knowledge representation. In addition, one or more of these topics will be covered: expert systems, uncertainty, case-based reasoning, neural networks, vision, robotics. The student may use various AI tools, Lisp, and/or Prolog for AI projects. Prerequisite: CS 352. 3:0:3
- CS 314** **User Interface Design**
 The student will learn techniques of programming a user interface in a graphic environment. Topics include the common tools for creating graphic interfaces, rules for consistency, human factors, intuitive design and feedback. Interface downfalls in common software packages will be identified. Students will work in groups to test an interface of their own design. Prerequisite: CS 219. 3:0:3
- CS 321** **Web Programming I**
 This course provides an introduction to the various languages, tools, and programming techniques used to program on the World Wide Web. The fundamentals of client-server programming will be emphasized. These topics will be covered: XHTML, cascading style sheets, Dynamic HTML, JavaScript, applets. Due to the particularly dynamic nature of the Web environment, course content will change as appropriate. Prerequisite: CS 219. 3:0:3
- CS 322** **Web Programming II**
 This course continues the development of the web programming skills introduced in CS 321. While CS 321 emphasizes client-side web programming, CS 322 emphasizes server-side web programming. Server-side concepts will be put into practice by using an HTML-embedded language such as JSP and/or ASP.NET. Students will be expected to implement applications that utilize database back-ends. Students may be introduced to Server-Side Includes, servlets, and/or XML. Due to the particularly dynamic nature of the Web environment, course content will change as appropriate. Prerequisite: CS 321. 3:0:3
- CS 351** **Computer Operating Systems**
 This course presents the theory of operating systems and an overview of

one or more operating system environments. Operating system concepts covered should include (but are not limited to): process management, memory management, I/O management, file management, and security. Theory concepts will be put into practice with exercises, some requiring college algebra skills and/or basic programming knowledge. Operating system environments may include (but are not limited to): Windows, UNIX, and Linux. Prerequisite: CS 219. 3:0:3

CS 352

Data Structures

This course introduces the student to various data structures and advanced algorithmic concepts. Students will put what they learn into practice by using C++ for programming projects. These data structures will be covered: linked lists, stacks, queues, and trees. These concepts will be covered: recursion, searching, sorting, and time-complexity analysis. Prerequisites: CS 208, a grade of C or better in CS 225. 3:0:3

CS 360

Database Management

This course provides an overview of database system concepts. The course deals with file organization methods, database models, data integrity and security, and database administration issues. The student will be introduced to application program development in a database environment with emphasis on setting up, modifying, and querying a database. Prerequisite: CS 219. 3:0:3

CS 365

Computer Networking

This course provides an overview of computer networking concepts. Course topics include (but are not limited to): protocol layer stack, circuit switching vs. packet switching, connectionless vs. connection-oriented services, routing, Ethernet, LAN topologies, transmission media. Optionally, the course may provide hands-on projects. For example, students may be asked to install and configure a LAN, install and use Linux network applications, or write network programs. Prerequisite: CS 219. 3:0:3

CS 367

Network Administration

This course provides a broad discussion of the role of a network administrator. It will cover the elements of the network for which the administrator is responsible: servers, routers, end-user machines, and local interconnection devices. It will discuss the major services that are generally deployed on most networks, and it will discuss the role of user support in terms of establishing accounts and quotas, ensuring appropriate access for users, and ensuring that the network is adequately protected from external and internal security threats. Prerequisite: CS 365. 3:0:3

CS 368

Distributive Computing

This course provides an overview of distributed computing; that is, programs that operate on multiple computers that are connected by a network. The course will be programming intensive, and will include, but not be limited to, course topics such as: the basic client/server programming model, the sockets programming API, client and server development in C and Java, remote procedure calls (RPC), remote method Invocation (Java), connectionless v. connection-oriented clients and servers, and multi-threaded servers. Prerequisites: CS 321 and CS 365. 3:0:3

CS 380

Compilers

The student will learn the principles of compiler construction. In particular, the student will learn about lexical analysis, symbol tables, parsing, type checking, and code optimization. Some or all of these concepts will be put into practice with programming projects. Prerequisite: CS 352. 3:0:3

- CS 415** **Special Topics in Computers**
 This course serves as an in-depth study in a specific field of computer science. Course topics may include (but are not limited to): architecture, advanced networking concepts, computer graphics, modeling and simulation, programming language theory, software engineering, VLSI circuits. CS 415 may be repeated once for credit for a different course topic. Prerequisite: dependent on course topic. 3:0:3
- CS 451** **Computer Science Internship (Parkville Daytime Campus Center Only)**
 The student arranges to work in a professional environment. The student's duties must be sufficiently complex to require the expertise of a senior level computer student. Internship duties may include (but are not limited to): developing or updating a program(s) or application(s), installing computer hardware or software, installing or administering a network, writing technical documentation. Prior to enrolling in CS 451, the student and the student's job supervisor must jointly prepare an internship proposal. The proposal must be submitted to the advisor and approved no later than four weeks prior to the enrollment deadline. Prerequisites: consent of the advisor, student should be entering or completing his/her senior year. Normal credit: 3 hours (for 160 hours of internship work). Maximum credit: 6 hours (for 320 hours of internship work).
- CS 490** **Senior Project in Computers (Parkville Daytime Campus Center Only)**
 The student finds a computer-related field of interest and performs in-depth work in that field. The project must be sufficiently complex to require the expertise of a senior level computer student. Project topics may include (but are not limited to): developing or updating a program(s) or application(s), installing computer hardware or software, installing or administering a network, writing technical documentation, writing a research paper. Prior to enrolling in CS 490, the student must prepare a project proposal. The proposal must be submitted to the advisor and approved no later than four weeks prior to the enrollment deadline. Prerequisites: consent of the advisor, student should be entering or completing his/her senior year. 3:0:3

EC-ECONOMICS (SS)

- EC 101** **Economic Thinking (MGE)**
 A survey of economic methods and thought. This course begins with an outline of the history of economic thought and proceeds to study economics of the private sector and how they are affected by government activity and regulation. The first half of this course focuses on the economics of the individual and the firm and how they interact to maximize their benefit. The second half of the course deals with the United States economy as a whole and considers the forces that contribute to unemployment, inflation, and economic growth. Integrated throughout the course is a global concern with how domestic economic activity affects the foreign sector and, especially, foreign trade. 3:0:3
- EC 141** **Principles of Economics I (Macro)**
 A study of the contemporary American economy; the role of investment, consumption, and government on income determination; and an analysis of the foreign sector. Emphasis is on contemporary problems: unemployment, inflation, and growth. 3:0:3

- EC 142 Principles of Economics II (Micro)**
A study of the market mechanism and the organization of production and distribution activities in society. A major focus is on the determination of prices of goods and factors of production. Analysis of the firm as the main institution in the market. 3:0:3
- EC 290 Selected Topics in Economics**
An in-depth examination of specific areas of economics. May be repeated once for credit with a change in topic. Variable credit: 1-3 hours.
- EC 300 Intermediate Microeconomics**
An analysis of the considerations underlying economic value. Emphasis is on the pricing process under different market conditions and the evaluation of the functioning of the enterprise system. Prerequisite: EC 142. 3:0:3
- EC 301 Intermediate Macroeconomics**
This course begins with a review of national income concepts including national income accounting. It analyzes fiscal and monetary policy using the ISLM model. The primary course focus is on the critical analysis of fiscal, monetary, new Keynesian, and new classical models and their success in explaining economic stability and the stimulation of economic growth. Prerequisite: EC 141. 3:0:3
- EC 302 Labor Economics**
A study of wages, working hours, conditions of work, fringe benefits. Also, an analysis of purchasing power of wages, and productivity. Attention is given to labor unions and to government attitudes toward labor. Prerequisite: EC 142. 3:0:3
- EC 303 Money, Credit and Banking**
A study of commercial banking, money markets, capital markets, monetary standards, foreign exchange; also, an analysis of the Federal Reserve System (central banking system) and its impact on the control of the money supply, and a survey of financial institutions. Prerequisites: EC 141 and EC 142 or permission of the instructor. 3:0:3
- EC 305 Special Issues in Economics**
This course consists of the study and analysis of some major aspects of economic theory at the junior level. Permission required from the instructor. Variable credit: 1 to 3 credit hours.
- EC 308 Transition to a Market Economy (MLL)**
An examination of problems of transitioning from a centrally directed, statist economic system to a system in which the market establishes what and how much the economy produces and consumes. The role of the price system and the function of profit in a market economy are discussed. Formal and informal institutional barriers to the transition will be evaluated. 3:0:3
- EC 309 Economic Development**
A study of the principles of growth applied to developed countries, newly industrialized countries, and developing countries. Analysis begins with a discussion of the early gains from socialist collectivization and Latin American early gains due to import substitution. The development failure that led to the collapse of the USSR and the development failures in the current non-communist countries are analyzed. Prerequisites: EC 141 and EC 142. 3:0:3

- EC 315 Intermediate Statistical Analysis**
This intermediate level statistics course covers the fundamentals of conducting quantitative research for the social and administrative sciences. The course is organized around a research project on quantitative analysis of data. Prerequisites: MA 120 and CS 140. 3:0:3
- EC 401 History of Economic Thought (LL)**
This course provides an overview of the historical development of economic doctrines from ancient times to the mid-20th century. Included in the discussion are the Greek and Roman slave society, the feudal society, mercantilism, and the historical transition to socialism and capitalism. 3:0:3
- EC 402 Comparative Economic Systems**
A study of several economies which discusses the impact of various ideologies on economic structures. Major areas: capitalism, socialism, communism (theory and practice). Term paper required. Prerequisites: EC 141 and EC 142. 3:0:3
- EC 404 Managerial Economics**
This course uses linear regression and linear programming computer packages to analyze various economic and business management problems. Prerequisites: EC 141, EC 142, and EC 315. A second statistics course and CS 140 may be substituted for EC 315. 3:0:3
- EC 407 International Trade and Finance**
The course entails an examination of trade theory, commercial policy and selective trade problems of global economics; an investigation of the nature of international payments, balance of payments and foreign exchange markets; a study of international monetary arrangements and their adjustment mechanisms. Prerequisites: EC 141, EC 142 and EC 300. 3:0:3
- EC 450 Senior Seminar in Economics**
This is the economics capstone course. The student will take a comprehensive final exam over four subject areas that focus on the United States economy. These areas will include microeconomics and macroeconomics. The other two tested areas will be selected from Labor Economics; Money, Credit, and Banking; and/or International Trade and Finance. In addition, the student will be given a country other than the United States to analyze in the four economic areas. Prerequisites: EC 300, EC 301, EN 306B, plus at least two of the following: EC 302, EC 303, EC 307. 3:0:3.
- EC 490 Special Topics in Economics**
This course consists of the study and analysis of some major aspect(s) of economic theory at the senior level. Permission required. Variable credit: 1 to 3 credit hours.

EDU-EDUCATION (SS)

EDU-EDUCATION (SS) To enroll in courses EDU, EDC, EDE, EDM, EDS 350 and above a student must first be admitted to the appropriate program in the School for Education, which requires a formal application after passing the C-BASE test (Child and Family Studies majors excluded from C-BASE), maintaining a 2.75 GPA, and successfully completing basic general education courses, EDU 105, writing and math competencies, a letter of reference and a portfolio.

- EDU 105 Career Inquiry in Education**
Students will visit a variety of schools, ranging from preschool to high school, including both public and private. Students will be expected to react both orally and in writing to these observations as well as to issues involved in choosing teaching as a career. Frameworks, standards and portfolios will be introduced. 2:1:3
- EDU 110 (MA 110) Geometry for Teachers**
A consideration of selected topics from basic Euclidean geometry with emphasis on proper terminology and unification of concepts. Techniques available for teaching the basics are discussed. 3:0:3
- EDU 203 Educational Psychology**
Application is made of the fundamental principles of psychology to the teaching-learning process. 3:0:3
- EDU 210 The School as a Social System (MGE)**
A survey of the historical, philosophical, and legal foundations of American education. Also a study of the various school systems in the United States. Selected educational problems, issues and practices will be examined in light of current social conditions. 3:0:3
- EDU 300 Writing in Education**
A writing intensive course for those preparing to teach. Emphasis will be on writing appropriate for classroom teachers including community communication, reflective thinking and writing, and critical analysis of education literature. This course will satisfy the EN 306 requirement for Education majors.. Prerequisites: EN 105 and EN 106 with at least a “C”, passing the WCT, and accumulation of at least 60 hours, 15 of which must be in education. 3:0:3
- EDU 330 Issues in Diversity (MLL)**
A course that deals with the issues of multicultural education with emphasis on equity and justice dealing with gender, race, and class. Students will be exposed to classrooms that are examples of diversity at work. The expectation will be for critical analysis of society and the impact of diversity in the school. 3:0:3
- EDU 361 Ethics and Professionalism in the Classroom**
An introduction to the legal values and ethical standards of behavior that govern the profession of teaching. Focus is on the legal and ethical duties owed by educators to student, parents, colleagues and the school district. Emphasis is placed on appropriate intervention and response strategies to problems frequently faced by new teachers. Prerequisites: EDU 210 and admission to the School for Education. To be taken simultaneously with Practicum. 1:0:1
- EDU 367 Assessment in Education**
This course is designed to address issues relating to formal and informal assessment, teacher-made tests, authentic assessment, as well as standardized tests. Emphasis will be on tests utilized in Missouri. Fieldwork in the schools will be required. Prerequisites: EDU 203 and admission to the School for Education. Ideally it should be taken simultaneously with the appropriate 359 “Strategies” class. To be taken simultaneously with Practicum 3:0:3
- EDU 375 (PS 321) Exceptional Children**
A course designed to study the varied educational, developmental, and

behavioral characteristics of children with special intellectual, physical, emotional, or social needs. This course includes completion of out-of-class experiences such as visits to inclusion classrooms in area schools, and home visits with families. Prerequisite: PS 101 or EDU 203, and admission to the School for Education. To be taken simultaneously with Practicum. 3:0:3

EDU 383**Technology in Education**

An introduction to the technology of the classroom, including instructional media and computers. Emphasis on effective use of media, operation of equipment, production of resources, and selection and evaluation of hardware and software. There will be an opportunity to work on the education portfolio. Prerequisites: EDU 203 and CS 140 or permission of instructor, and admission to the School for Education. To be taken simultaneously with the appropriate EDx 360 Practicum. 3:0:3

EDU 398**Content Area Methodology for K-12 Teachers**

The purpose of this course is to allow the student to identify and practice appropriate teaching techniques and methods in the area of K-12 certification. The areas of concentration are: A. Art B. Spanish Prerequisite: Admission to the School for Education. To be taken simultaneously with Practicum or Directed Teaching. 2:0:2

EDU 400**Independent Reading in Education**

A course designed to meet individual interest areas in the field of education. Prerequisite: permission of the instructor. Variable credit: 1-3 hours.

EARLY CHILDHOOD EDUCATION (EDC)

EDC 220**Child Growth and Development for Early Childhood and Elementary Teachers**

A study of the growth and development of children, birth through the years of middle childhood. Emphasis will be placed on contemporary multicultural dimensions of development and child rearing, and their implications for teachers. Students seeking certification in Early Childhood Education will spend five contact hours in each of three early childhood settings: Infants/Toddler, Pre-K-Kindergarten, and Primary K-3. 3:0:3

EDC 222**Early Childhood Principles**

An introduction to early childhood principles and its implications for teaching. Students will be familiar with the philosophical framework of developmentally appropriate practices as a basis for making professional decisions. Students will observe for a total of five (5) hours in each of the following early childhood settings: Infant/Toddler, Pre-Kindergarten, and Primary K-3. 3:0:3

EDC 353**Language and Literacy Development in Early Childhood**

A study of language and literacy development in young children. Emphasis will be placed on the roles of teachers and families in facilitating reading, writing, speaking and listening in young children, from birth through age 5. Students will observe and interact with children for (5) five hours in each of the following early childhood settings: Infancy/Toddler, Pre-K-Kindergarten, and Primary K-3. Prerequisite: Admission to the School for Education. 3:0:3

- EDC 354** **Observation, Assessment & Screening in Early Childhood Education**
 A course exploring appropriate assessment procedures for evaluating, monitoring, reporting, and planning experiences to support and extend the development and learning of young children. Students will practice the skills of observation and assessment in each of the following settings: Infant/Toddler, Pre-K-Kindergarten, and Primary K-3. Prerequisite: Admission to the School for Education.. 3:0:3
- EDC 355** **Social and Emotional Learning in Early Childhood**
 This course will examine the theories that support the problem solving approach to guiding young children's behavior in the early childhood classroom. The adult role in developing relationships of mutual trust and respect and helping young children see themselves as a member of a learning community will be emphasized. Developmentally appropriate strategies, including preventive strategies, will be explored. Students will observe and analyze guidance and classroom management practices in different early childhood settings. Prerequisite: Admission to the School for Education.. 3:0:3
- EDC 356** **Families in a Pluralistic Society**
 A course designed to explore school-family relationships. Emphasis will be placed on developing the student's understandings of the perspectives of families in the care and education of their children, and in becoming familiar with community resources. Field trips will enable students to learn about agencies and programs providing family support. Prerequisite: Admission to the School for Education 3:0:3
- EDC 357** **Family Involvement in Early Childhood Education**
 A course designed to provide students with the knowledge and skills necessary to promote and support family involvement in early childhood settings (including Infant/Toddler, Pre-K-Kindergarten, and Primary K-3). Emphasis will be placed on learning to work effectively with families and other adults from a variety of cultural/linguistic and socio-economic backgrounds. Prerequisite: Admission to the School for Education.. 3:0:3
- EDC 358** **Early Childhood Program Management**
 A course examining the issues of management in early childhood programs, including supervision; planning environments, curriculum, and evaluation procedures; health, safety, nutrition; guidance and classroom management; professional decision-making; working with families and community; and advocacy. Students will visit and participate in a variety of different programs serving children from birth through grade 3. Prerequisite: Admission to the School for Education. 2:0:2
- EDC 359A** **Infants and Toddlers**
 Students will plan, implement and evaluate developmentally appropriate materials, activities and strategies for children, birth through age 2. ECE Certification students must be concurrently enrolled in EDC 360A K-3 Infant and Toddler Practicum for ECE Certification. (2cr.). Child and Family Studies students must be concurrently enrolled in EDC 361A Infant and Toddler Practicum for Child and Family Studies (1cr.). Prerequisite: Admission to the School for Education. 3:0:3
- EDC 360 A** **Infant and Toddler Practicum for ECE Certification**
 A supervised field experience in an infant/toddler setting that supports the integration of teacher knowledge, skills, and dispositions necessary for working with young children, birth through age 2, and their families. The

student is required to be in the infant/toddler setting one full day or two half days during the semester. The practicum is coordinated with Phase I courses in the ECE Professional Curriculum. The student must be concurrently enrolled in EDC 359A (3 cr.) and must earn at least a “B” in the practicum to continue in the program. Prerequisite: Admission to the School for Education. 0:2:2

EDC 361A**Infant and Toddler Practicum for Child and Family Studies**

A supervised field experience in an infant/toddler setting that supports the integration of teacher knowledge, skills, and dispositions necessary for working with young children (birth-age 2) and their families. The student is required to be in the infant/toddler setting one half day per week during the semester. The student must earn at least a “B” to continue in the program. The student must be concurrently enrolled in EDC 359A Infants and Toddlers (3 cr.). Prerequisite: Admission to School for Education. 0:1:1

EDC 359B**Integrating the Curriculum: PreK**

Students will plan, implement and evaluate developmentally appropriate materials, activities and strategies in a PreK setting. ECE Certification students must be concurrently enrolled in EDC 360B PreK Practicum for ECE Certification. (2cr.) Child and Family Studies students must be concurrently enrolled in EDC 361B PreK Practicum for Child and Family Studies (1cr.). Prerequisite: Admission to the School for Education . 3:0:3.

EDC 360B**PreK Practicum for ECE Certification**

A supervised field experience in a PreK setting that supports the integration of teacher knowledge, skills, and dispositions necessary for working with young children, 3-5 years of age, and their families. The student is required to be in the PreK setting one full day or two half days during the semester. The practicum is coordinated with Phase II courses in the ECE Professional Curriculum. The student must be concurrently enrolled in EDC 359B Integrating the Curriculum: PreK (3 cr.) and must earn at least a “B” in the practicum to continue in the program. Prerequisite: Admission to the School for Education. 0:2:2

EDC 361B**PreK Practicum for Child and Family Studies**

A supervised field experience in a PreK setting that supports the integration of teacher knowledge, skills, and dispositions necessary for working with young children (3-5 years of age) and their families. The student is required to be in the PreK setting one half day per week during the semester. The student must earn at least a “B” to continue in the program. The student must be concurrently enrolled in EDC 359B Integrating the Curriculum: PreK (3 cr.). Prerequisite: Admission to the School for Education. 0:1:1

EDC 359C**Integrating the Curriculum: K-3**

Students will plan, implement and evaluate developmentally appropriate materials, activities and strategies in a primary setting, grades K-3. ECE Certification students must be concurrently enrolled in EDC 360C K-3 Practicum for ECE Certification. (2cr.) Prerequisite: Admission to the School for Education. 3:0:3.

EDC 360C**K-3 Practicum for ECE Certification**

A supervised field experience in a primary setting that supports the integration of teacher knowledge, skills, and dispositions necessary for working with young children, (K-grade 3), and their families. The student is required to be in the K-3 setting one full day or two half days during the semester. The practicum is coordinated with Phase III courses in the ECE

Professional Curriculum. The student must be concurrently enrolled in EDC 359C Integrating the Curriculum: K-3 (3 cr.) and must earn at least a “B” in the practicum to continue in the program. Prerequisite: Admission to the School for Education. 0:2:2

EDC 379

Advanced Strategies with Practicum for Child and Family Studies

A supervised ten-week experience in an infant/toddler or Pre-K setting designed to provide an in-depth practicum for Child and Family Studies majors. Student will participate at the practicum site for a minimum of 25 hours per week, for a total of at least 250 hours. Fifteen hours of seminar meetings will provide an opportunity for the reflective exploration of issues in working with young children and families, and support the preparation of the Child and Family Studies portfolio. Prerequisite: Completion of EDC 359 with a grade of “B” or better, a GPA of 2.75, and admission to the School for Education. 1:7:8

ELEMENTARY EDUCATION (EDE)

EDE 205

Child Psychology (PS 205)

A study of biological, cognitive, and socio-cultural development from the prenatal period through childhood. Attention will be given to theory and research, practical examples and policy implications. Prerequisite: PS 101. 3:0:3

EDE 311

Children’s Literature for Early Childhood and Elementary Teachers

A survey of traditional and modern literature best suited to children from early childhood through the elementary grades. An attempt is made to develop an appreciation for prose and poetry suitable for children of different ages. 3:0:3

EDE 325

Modern Grammar (EN 325)

This course concentrates on modern approaches to English grammar and its teaching after a brief historical perspective of transformational, structural, and traditional methodologies. Teacher education candidates are required to develop teaching packages demonstrating appropriate pedagogical methods. Other students may substitute research paper. 3:0:3

EDE 355

Classroom Management for Elementary

Theory and skills necessary to implement classroom management strategies are presented through lecture, discussion and classroom observations. Students will explore the theoretical foundations, knowledge, skills and dispositions necessary to create supportive teacher-student relationships and to implement developmentally appropriate guidance and classroom management strategies. The course includes guidance procedures for integrating children with and without disabilities. Students will observe and analyze guidance and management practices in a variety of appropriate early childhood, elementary, middle school and secondary settings. To be taken simultaneously with Practicum. 3:0:3 Prerequisites: EDU 203 and Admission to the School for Education.

EDE 359

Elementary Teaching Strategies

This course develops the curriculum and instructional strategies appropriate to the elementary learner. An emphasis is focused on developing knowledge of the Missouri Standards, lesson plans, teaching strategies, and reflection techniques. The course is designed to provide the student with the skills to

plan, implement, and evaluate both the teaching and learning processes for the elementary social studies classroom. Prerequisite: Admission to the School for Education. Students must earn at least an “B” in this course before enrolling in directed teaching. Will be taken simultaneously with Practicum. 5:0:5

EDE 360**Practicum**

This field experience in a classroom supports the integration of teacher knowledge, skills, and dispositions in the observation and application of classroom management, professional practices, and instructional techniques. The student is required to be in the regular classroom a full day or 2 half days during the semester. The practicum will be coordinated with upper level coursework. Students must earn a “B” to continue in the program. Prerequisite: Admission to the School for Education . Course will be repeated as needed to support other courses 0:2:2

EDE 376**Art, Music and Movement for Early Childhood and Elementary Teachers**

A course in which students plan, implement and evaluate developmentally appropriate materials, activities and strategies for teaching art, music and physical education in early childhood settings and the elementary grades. Combines theoretical knowledge about effective instruction with the development and application of reflective teaching skills. Prerequisite: EDU 203 and admission to the School for Education. To be taken simultaneously with Practicum 3:0:3

EDE 378**Science for Early Childhood and Elementary Teachers**

A course designed to explore how children develop an interest in scientific exploration. Students will observe, design, implement and evaluate activities appropriate for early childhood programs and elementary classrooms. Prerequisites: EDE 359 and admission to the School for Education. To be taken simultaneously with Practicum 3:0:3

EDE 379**Mathematics for Early Childhood and Elementary Teachers**

A study of the current methods for developing meaningful mathematical concepts in children, from the early years of childhood through the primary grades. Prerequisites: EDC 359 or EDC 359 and admission to the School for Education. To be taken simultaneously with Practicum. 2:0:2

EDE 380**Literacy for Early Childhood and Elementary Teachers**

Teaching literacy as a lifelong endeavor including reading research, emergent literacy/reading readiness, writing, listening and speaking in order to prepare students to become competent communicators. Emphasis on the development and organization of an authentic language arts program including the principles and practices which will lead to literacy. Observations in a variety of settings, including early childhood programs and elementary classrooms enable the student to learn about the support of emergent literacy and the delivery of literacy instruction in the primary grades. Prerequisites: EDE/EN 325 and admission to the School for Education. To be taken simultaneously with Practicum. 6:0:6

EDE 391**Diagnosis & Remediation of Reading Difficulties**

A survey of the instruments which teachers can use in their classrooms to screen reading difficulties. The instruments will be demonstrated and mastered as part of the course. The use of the WISC scores in classroom reading diagnosis is also emphasized. Methods and materials available to the classroom teacher for remediating reading difficulties are also a focus of this

course. Pre-service students are required to work with two elementary school students, one on one, for 16 hours in enrichment and/or remediation in a school setting. This is designed to prepare teachers to individualize reading instruction within a literary program in the elementary school. Prerequisite: EDE 380 and admission to the School for Education. 6:0:6.

MIDDLE SCHOOL AND SECONDARY EDUCATION (EDM/EDS)

EDM/EDS 221 Adolescent Psychology (PS 221)

Developmental factors and problems common to the period from puberty to adulthood. Topics include self-identity, sexuality, lifestyles, parent-adolescent relationships, and conditions leading to optimal development. 3:0:3

EDM/EDS 320 Literature for Young Adults (EN 320)

Students in this course will survey literature appropriate for school children grades six through twelve. Students will also determine criteria for selecting and evaluating literature for adolescents, and will develop lesson plans for teaching literature at various grade levels. 3:0:3

EDM/EDS 355 Classroom Management for Middle School and Secondary

Theory and skills necessary to implement classroom management strategies are presented through lecture, discussion and classroom observations. Students will explore the theoretical foundations, knowledge, skills and dispositions necessary to create supportive teacher-student relationships and to implement developmentally appropriate guidance and classroom management strategies. The course includes guidance procedures for integrating children with and without disabilities. Students will observe and analyze guidance and management practices in a variety of appropriate early childhood, elementary, middle school and secondary settings. To be taken simultaneously with Practicum. 3:0:3 Prerequisites: EDU 203 and admissions to the School for Education.

EDM/EDS 397 Methodology in Teaching Content Area in Middle and Secondary Classrooms

The purpose of this course is to allow the student to identify and practice appropriate teaching techniques and methods in the area of certification. The areas of emphasis will be offered on a rotating basis as need dictates: A. English B. Social Studies C. Science D. Mathematics E. Journalism Prerequisite: Admission to the School of Education. To be taken simultaneously with Practicum or Directed Teaching. 2:0:2

EDM 359 Teaching Strategies

This course develops curriculum and instructional strategies appropriate to the pre-service teacher. An emphasis is focused on developing knowledge of the Missouri Standards, lesson plans, and reflection techniques. The course is designed to provide the student with the skills to plan, implement, and evaluate both the teaching and learning processes for the classroom. Prerequisite: Admission to the School for Education. Students must earn at least a "B" in this course to be allowed to do directed teaching. 5:0:5

EDM 360 Practicum

This field experience in a classroom supports the integration of teacher knowledge, skills, and dispositions in the observation and application of classroom management, professional practices, and instructional techniques.

The student is required to be in the regular classroom a full day or 2 half days during the semester. The practicum will be coordinated with upper level courses. Students must earn a “B” to continue in the program. May be repeated as needed to support coursework. Prerequisite: Admission to the School of Education. 0:2:2

EDM 380**Literacy for Middle School Teachers**

Theories and techniques of teaching reading and study skills in the middle school classroom are explored. Included will be the connection between reading, writing, thinking, speaking, and listening. Students are expected to do actual tutoring of a student or students for the laboratory portion of this course. To be taken simultaneously with MSE 359 and practicum. Prerequisite: Admission to the School of Education. 5:1:6

EDS 359**Teaching Strategies**

This course develops curriculum and instructional strategies appropriate to the pre-service teacher. An emphasis is focused on developing knowledge of the Missouri Standards, lesson plans, and reflection techniques. The course is designed to provide the student with the skills to plan, implement, and evaluate both the teaching and learning processes for the classroom. Prerequisite: Admission to the School for Education. Students must earn at least a “B” in this course to be allowed to do directed teaching. 5:0:5

EDS 360**Practicum**

This field experience in a classroom supports the integration of teacher knowledge, skills, and dispositions in the observation and application of classroom management, professional practices, and instructional techniques. The student is required to be in the regular classroom a full day or 2 half days during the semester. The practicum will be coordinated with upper level courses. Students must earn a “B” to continue in the program. May be repeated as needed to support coursework. . Prerequisite: Admission to the School for Education. 0:2:2

EDS 380**Literacy in the Secondary Classroom**

Theories and techniques of teaching reading and study skills in the secondary classroom are explored, including the connections between reading, writing, hearing, talking, and thinking. Students are expected to do actual tutoring of a student or students for the laboratory portion of this course. Prerequisites: Admission to the School for Education. To be taken simultaneously with EDM 359 and Practicum. 3:1:4

Student must pass appropriate PRAXIS before enrolling in Directed Teaching with Seminar.

EDC 410**Early Childhood Directed Teaching with Seminar**

A twelve-week experience of directed teaching in two different early childhood settings (Infant/Toddler, PreK, or Primary K-3). Interactions with children and families from a variety of backgrounds will be an integral part of the directed teaching experience. Included will be 30 contact hours of seminar, including intensive meeting time before student teaching begins and weekly meetings during the experience of directed teaching and a culminating session following the directed teaching experience. The purpose of the seminar is to allow exploration of issues and experiences in a reflective way to enhance the directed teaching experience, and to articulate an appropriate philosophy of early childhood education as a basis for making professional decisions. Prerequisites: EDE378, EDE 379, EDE 381 and admission to the School of Education and cumulative GPA of 2.75. 2:12:14

EDE 410**Elementary Directed Teaching with Seminar**

A ten-week experience in directed teaching in an area school. The student will observe and actually teach in a classroom. Included will be 30 contact hours of seminar, an intensive period before teaching begins, bi-weekly meetings during the experience of directed teaching and immediately at the conclusion. The purpose of the seminar is to allow exploration of issues and experiences in reflective way to enhance the directed teaching experience. Prerequisites: EDE 359 (with at least a grade of "B"), EDE 379, EDE 381, and admission to the School of Education and cumulative GPA of 2.75. 2:10:12

EDM 410**Middle School Directed Teaching with Seminar**

A ten-week experience in directed teaching in an area school. The student will observe and actually teach in a classroom. Included will be 30 contact hours of seminar, an intensive period before teaching begins, weekly meetings during the experience of directed teaching and immediately at the conclusion. The purpose of the seminar is to allow exploration of issues and experiences in reflective way to enhance the directed teaching experience. Prerequisites: EDM 359 (with at least a grade of "B") and at least 15 hours in discipline to be taught and admission to the School of Education and cumulative GPA of 2.75. 2:10:12

EDS 410**Secondary Directed Teaching with Seminar**

A ten-week experience in directed teaching in an area school. The student will observe and actually teach in a classroom. Included will be 30 contact hours of seminar, an intensive period before teaching begins, weekly meetings during the experience of directed teaching and immediately at the conclusion. The purpose of the seminar is to allow exploration of issues and experiences in reflective way to enhance the directed teaching experience. Prerequisites: EDS 359 (with at least a grade of "B") and 24 hours in discipline to be taught and admission to the School of Education and cumulative GPA of 2.75. 2:10:12

EDU 410**Directed Teaching with Seminar for K-12**

A twelve-week experience in directed teaching, six weeks in grades 1-5, six weeks in grades 6-12, in area schools. The student will observe and actually teach in a classroom. Included will be 30 contact hours of seminar which can include intensive meeting time before the directed teaching experience and weekly meetings during the directed teaching experience and upon its conclusion. The purpose of the seminar is to allow exploration of issues and experiences reflectively to enhance the directed teaching experience. Prerequisites: EDS 359 (with at least a grade of "B") and at least 30 hours in the discipline to be taught, and admission to the School of Education and cumulative GPA of 2.75. 2:12:14

EG-ENGINEERING (SS)

EG 101**Introduction to Engineering Management**

The introduction to the responsibilities and requirements for engineer administration. The management of technical activities, with emphasis on planning and organizing; requirements for managing projects, team building, techniques of control, data requirements and analysis, communication, time management, and project analysis. 3:0:3

- EG 360 Environmental Impact in Engineering**
Course includes legal and administrative activities leading toward improved environmental management and responsibility of engineers. National Environmental Policy Act and court decision implications, and preparation and processing of environmental impact statements. 3:0:3
- EG 390 Engineer Administration Decision-Making Models**
Development of the formal problem solving process. Identification of the types of decisions made by engineer administrators. Development of techniques for lay-out and organization of the engineer project using milestone scheduling, Gantt chart, and CPM to determine resource requirements, equipment scheduling, and time estimates. Forecasting what is needed, where and when, and alternatives. Prerequisites: CO 360, EC 142 or consent of the instructor. 3:0:3
- EG 470 Engineer Administration Economics**
Techniques for capital investment decision making, time-value of money, the evaluation of investment alternatives, depreciation cost, materials and equipment accounting information systems. Prerequisite: EC 142. 3:0:3
- EG 491 Senior Seminar in Engineering Administration**
Advanced case study of engineering management of engineering projects with emphasis on a construction project and the associated construction management. Includes the engineering administration and management responsibilities from project inception to completion. A capstone course bringing together previous course work into the analysis, research, data collection and presentation for the case study. Prerequisite: Completion of construction/engineering core courses or permission of instructor. 3:0:3

EI-ENGLISH AS AN INTERNATIONAL LANGUAGE (H)

- EI 101 Beginning Reading and Writing I**
This course introduces the beginning level speaker of English to basic reading texts and elementary writing tasks. Students learn to identify topic sentences, main ideas, and conclusions; various methods of building vocabulary; and to recognize basic sentence constituents. Writing tasks will be based mainly, but not exclusively, on the readings. Students compare and analyze each other's work for errors and strengths. As beginning writers of English, they practice and become familiar with simple grammatical structures. 3:0:3
- EI 102 Beginning Reading and Writing II**
This course continues to introduce the beginning level speaker of English to basic reading texts and elementary writing tasks. In this course, students encounter more challenging reading assignments, ranging from 500 - 800 vocabulary words. More varied writing tasks will be assigned. Students continue to practice grammatical and textual analysis. 3:0:3
- EI 111 Beginning Listening and Speaking I**
This course introduces the beginning level speaker of English to basic listening, speaking, and pronunciation skills. Students learn the elements of phonetics to facilitate the development of superior pronunciation skills as well as self-monitoring techniques. They are exposed to graduated (in terms of difficulty) selections of aural English. They also practice routinized and common patterns of speech such as may be found in the classroom, in the

cafeteria, in stores, in the dorm, and so on. Finally, students acquire strategies to improve their comprehension, as well as others' comprehension of them. 3:0:3

EI 112

Beginning Listening and Speaking II

This course continues to introduce the beginning level speaker of English to basic listening, speaking, and pronunciation skills. Building on the knowledge of phonetics gained in EI111, which it follows, students practice and hone their pronunciation skills, including suprasegmental elements such as intonation and rhythm. As listening and speaking material grows more challenging, students continue to develop both listening comprehension and fluency in spoken English, in more contexts. 3:0:3

EI 121

Beginning Grammar I

This course introduces the beginning level student to the basic grammar of English. The principal tenses and aspects of the verb system will be covered, as well as the noun system, fundamentals of the way the English article works, and basic adjectives, adverbs, prepositions, and conjunctions. The focus at this level is on simple sentences. 3:0:3

EI 122

Beginning Grammar II

This course continues the introduction of basic English grammar begun in EI121. Concepts and grammatical categories encountered in EI 121 will continue to be practiced and reviewed; most will be expanded. Completion of these two courses provides the beginning student with a solid grounding in fundamental English grammar, and increased awareness of grammar itself. 3:0:3

EI 130

Beginning Integrated Skills I

This course provides students opportunity to practice and apply all of the skills, concepts, and content being acquired in the other beginning level courses. Themes introduced in the other courses are developed holistically by means of various types of projects and presentations. The focus in integrated skills courses is on using and producing the appropriate language to express, discuss and demonstrate content. 3:0:3

EI 140

Beginning Integrated Skills II

This course provides students with further opportunity to practice and apply skills, concepts, and content being acquired in the other beginning level courses. Themes introduced in the other courses are developed holistically by means of various types of projects and presentations. The focus in integrated skills courses is on using and producing the appropriate language to express content. 3:0:3

EI 145

American Culture

This course introduces students to American culture from anthropological, sociological, and historical perspectives. We examine customs and rituals, social structures, and where shared attitudes, myths, and values come from, and how they are expressed. In this class students develop an awareness of not only how to behave in a linguistically appropriate manner in a given social situation, but also to a certain extent why they should do so. 3:0:3

EI 201

Intermediate Reading and Writing

This course introduces the intermediate level speaker of English to readings of more challenging vocabulary and more varied type, such as newspaper articles, short stories, and brief technical selections. An emphasis is placed on vocabulary building skills and reading skills such as scanning for detail. Writing tasks are based mainly, but not exclusively, on the readings and

include short essay-length compositions of different rhetorical categories, as well as summaries, outlines, paraphrases, and letters. 3:0:3

EI 210

Intermediate Speaking and Listening for International Students

This class teaches students speaking and listening skills necessary for academic success. Students will focus on improving spoken grammar, vocabulary, listening comprehension, pronunciation and fluency. Class activities will include in-class discussions, individual and group oral presentations, pronunciation exercises and spoken instruction. Students will be exposed to American rhetorical forms, including political debate, music lyrics, academic lectures and sports/entertainment/cultural commentary. 3:0:3

EI 221

Intermediate Grammar

Students in EI221, Intermediate Grammar, revisit and expand their acquaintance with basic verb tense/aspect categories, adding the perfect aspect. The different aspects of English verbs are contrasted, in order to better explain and demonstrate their use and distribution. Students' knowledge of categories (such as nouns, etc.) and structures (such as phrases, clauses, etc.) is expanded. The passive voice and factual, future, and present unreal conditionals are introduced. Students' use and become more familiar with modals. 3:0:3

EI 230

Integrated Skills I

This course teaches students to integrate diverse English skills, including speaking, listening, reading and writing, into holistic language use. Students will build on language skills by increasing reading comprehension, writing fluency and speaking fluency. May be taken as independent study. 3:0:3

EI 245

Advanced American Culture

This course broadens and deepens students' exposure to American culture through examination and analysis of American music, movies, TV, literature, art, and other media. Students in this course put their English into practice and demonstrate knowledge of American culture by producing a project elucidating an aspect which interests them. It is designed to build upon the skills of cultural analysis taught in EI145, American Culture, but may be taken on its own. 3:0:3

EI 301

Academic Reading and Writing

This advanced course introduces students to increasingly more sophisticated reading selections, such as they will encounter in academic courses. Students continue to increase their vocabulary and develop advanced reading skills such as skimming. Writing tasks are based mainly, but not exclusively, on the readings and include essay-length compositions of different rhetorical categories, as well as an autobiography, cover letters and resumes. 3:0:3

EI 310

Academic Speaking and Listening for International Students

This class teaches students speaking and listening skills necessary for academic success. Students will focus on improving their spoken grammar, vocabulary, listening comprehension, pronunciation and fluency. Class activities will include in-class discussions, individual and group oral presentations, pronunciation exercises and grammar instruction. Students will learn how to participate in complicated speaking/listening situations, as participants in debate, and presenting academic oral presentations. 3:0:3

- EI 321 Academic Grammar**
This advanced course provides a comprehensive overview of the English noun/verb system, and in addition introduces students to the most complex areas of English grammar, including a survey of different types of phrases and clauses, as well as advanced work in the passive voice, modals, and conditionals. We examine different styles of speech and writing and how these differences are manifested grammatically. 3:0:3
- EI 330 Academic Integrated Skills I**
This class provides students with additional and highly advanced language acquisition, focusing on further development of reading, writing, speaking and listening skills, with emphasis on academic communication. Content will reinforce learning in other academic subjects, helping students to succeed in 300-400s levels of computer science, natural science, psychology and liberal studies. 3:0:3
- EI 340 Study Skills for International Students**
This course prepares non-native speakers of English for academic work. All the skills that students need to succeed in the academic classroom are covered in this class: reading, directed listening, note-taking, vocabulary building, organizational skills, library and internet use, referencing techniques, and review strategies. 3:0:3
- EI 350 Academic Integrated Skills III**
This class provides students with additional and highly advanced language acquisition, focusing on further development of reading, writing, speaking and listening skills, with emphasis on academic communication. Content will reinforce learning in other academic subjects, helping students to succeed in 300-400s levels of computer science, natural science, psychology and liberal studies. 3:0:3

EN-ENGLISH (H)

- EN 105 Writing Strategies and Concepts (C)**
The course involves students in various modes of writing while exploring contemporary issues. It also helps strengthen their ability to think critically, read and listen intelligently, and write clearly and effectively. 3:0:3
- EN 106 Writing Purposes and Research (C)**
The course teaches students to write effectively for various purposes and audiences. It also helps to develop further skills in critical thinking and reading. Special emphasis is given to information retrieval and writing a research paper. 3:0:3
- EN 201 Introduction to Literature (GE)**
Develops skills in reading, interpreting, and evaluating literature and surveys some of the major concerns and movements in literary criticism. 3:0:3
- EN 203 Explorations in Language and Literature**
Introductory study of language and literature as they relate to popular culture and other areas of contemporary interest. May be repeated for credit when topics change. 3:0:3

- EN 221 Afro-American Literature (MGE)**
An introduction to major Afro-American writers from the earliest expressions to the present. An examination of the cultural milieu from which the writing arose, the ideological stance of each writer studied, and the styles and structure of the works considered. 3:0:3
- EN 231 Introduction to Language**
As an introduction to a general study of language, the course deals with the origin, nature and function of language as a uniquely human phenomenon. The history of English language and a survey of approaches to the analysis of languages are important components. 3:0:3
- EN 232 Introduction to Poetry (MGE)**
A study of approaches to reading, understanding, and analyzing lyric poetry in English and American literature. 3:0:3
- EN 233 Introduction to Drama (GE)**
A study of dramatic literature with emphasis on Anglo-American drama. 3:0:3
- EN 234 Introduction to Fiction (GE)**
Close reading of selected works of English and American prose fiction, emphasizing the historical development of the novel and short story. 3:0:3
- EN 304 Special Topics in Language and Literature**
A seminar course treating various topics of contemporary interest. Prerequisite: permission of instructor. 3:0:3
- EN 306 Professional Writing in the Disciplines (C)**
This course is the third course in the required writing sequence at Park University. It emphasizes professional writing skills and expectations in various disciplines while developing further basic writing skills. Specific departmental courses may be deemed equivalent and will be used to satisfy this course. The course will have three sections as follows:
- A. Scientific and Technical Writing**
This course helps students do scientific and technical research and prepare reports that will address the needs of various audiences in science, government, and industry. 3:0:3
- B. Business Communications**
This course will emphasize knowing and preparing various kinds of communications in business and related fields: business letters, reports, proposals, surveys, field studies, visual aids, group presentations, and public lectures. 3:0:3
- C. Advanced Expository and Research Writing**
This course develops further skills in advanced expository writing: long essays or articles for publication in journals or trade magazines, arts or literary publications, the teaching of writing, and general critical or argumentative pieces. 3:0:3

Prerequisites: EN 105, EN 106, passing the Writing Competency Test, and 60 credit hours.

- EN 307 Professional Writing in English Studies (C)**
Experience in research, writing, and editing in the professional context of contemporary work in English studies. English majors only. This course

fulfills the EN 306 requirements for English majors. Prerequisites: EN 105, EN 106, passing the WCT, and 60 accumulated hours. 3:0:3

- EN 311 Creative Writing**
Practice in various forms of imaginative writing, particularly prose fiction and drama, and lyric and narrative poetry. May be repeated with permission of instructor. Recommended Prerequisite: one or more literature courses. 3:0:3
- EN 315 Earlier English Literature**
A survey of major authors and works from the medieval beginnings of English literature to approximately 1700. Special attention to Chaucer, Spenser, Shakespeare, and Milton. 3:0:3
- EN 316 Later English Literature**
A survey of major authors, works, and movements from approximately 1700 to 1900. Special attention to the Romantic and Victorian periods. 3:0:3
- EN 317 Earlier American Literature (MLL)**
Study of significant American writers from the colonial period to the Civil War with attention to the historical and cultural contexts of their works. 3:0:3
- EN 318 Later American Literature (MLL)**
Study of significant American writers from the Civil War to the present with attention to the historical and cultural contexts of their works. 3:0:3
- EN 319 Modern Literature (LL)**
A study of European literature, particularly English, of the first half of the twentieth century, considered in its historical and cultural contexts. 3:0:3
- EN 320 (ED 320) Literature for Young Adults**
Students in this course will survey literature appropriate for children in grades six through twelve. Students will also determine criteria for selecting and evaluating literature for adolescents and will develop lesson plans for teaching literature at various grade levels. 3:0:3
- EN 325 (ED 325) Modern Grammar**
This course concentrates on modern approaches to English grammar and its teaching after a brief historical perspective of transformational, structural, and traditional methodologies. Teacher education candidates are required to develop teaching packages demonstrating appropriate pedagogical methods. Other students may substitute a research paper. 3:0:3
- EN 341 Literature and Film (LL)**
Investigation of the relationship between written literature and the moving image of film and video as media for both narrative and lyrical expression, with close study of selected examples. 3:0:3
- EN 351 Foundations of Literature (MLL)**
A study of major texts that form a foundation for modern literature. The course includes texts from around the world which function as models for modern writers and provide hints regarding the origins of 20th Century thought and culture. 3:0:3
- EN 355 American Ethnic Literature (MLL)**
The course presents American ethnic literary expressions including selected

short stories, poems, personal narratives, essays, and plays from the earliest examples to the present. The heaviest concentration of works is from the 20th Century. Examination of the cultures from which the literature emerges and of literary styles and structures is a regular feature of the course. 3:0:3

- EN 356 Women's Literature (MLL)**
A study of literary works by and about women which will encourage students to explore the historical, political, and social contexts in which women live and write. 3:0:3
- EN 359 Mythology and Science Fiction (MLL)**
The first half of this course examines the myths and legends of a variety of western and non-western cultures while the second half of the course examines science fiction as a tool for understanding and interpreting the world in which we live. 3:0:3
- EN 361 Contemporary Novel: 1940-1965**
In this course the student reads a wide variety of novels by American, British, and other English speaking writers. The novels differ widely in theme, style, and subject matter. The aim is to teach the student the techniques of literary criticism as they apply to the novel. 3:0:3
- EN 362 Contemporary Novel: 1965 to Present**
In this course the student reads a wide variety of novels by American, British, and other English speaking writers. The novels differ widely in theme, style, and subject matter. The aim is to teach the student the techniques of literary criticism as they apply to the novel. 3:0:3
- EN 380 Literary Theory and Criticism**
An examination of key questions in contemporary theory and their historical roots, along with the practice of literary criticism today. English Majors only. 3:0:3
- EN 401 Independent Project in Language, Literature, or Writing**
An opportunity for advanced students to pursue special interests not covered in regular course offerings, including writing projects. Material and credit arranged by the instructor. May be repeated for credit with permission of the discipline coordinator. Prerequisite: EN 201. Variable credit: 1-6 hours.
- EN 440 Shakespeare**
A survey of major comedies, histories, tragedies, and non-dramatic poetry. 3:0:3
- EN 450 Romanticism in Literature (LL)**
A study of the Romantic movement in European literature, particularly English, with particular emphasis on the later eighteenth and early nineteenth centuries. 3:0:3
- EN 490 Capstone Seminar**
The seminar will focus on a general topic in English studies on the model of an academic conference. Students will develop 20-minute conference papers in the first portion of the course and deliver them before the class and an invited audience in a series of seminar meetings late in the semester. Attention will be paid to both the research and the rhetorical demands of this task and to the relationship between each individual contribution and the wider topic. 3:0:3

FI-FINANCE (SS)

- FI 201 Personal Financial Management (GE)**
A study of individual and family financial management concepts and techniques which assist persons to become informed consumers and efficient managers of personal resources. 3:0:3
- FI 325 Risk and Insurance**
An introduction to the basic principles of insurance and risk management from the perspective of the individual and family consumer; consideration is given to business risk management. 3:0:3
- FI 360 Financial Management**
The role of financial management through the development of a framework appropriate for financial decision making. Emphasis on obtaining and effectively utilizing the funds necessary for the operation of an enterprise. Elements of financial planning, capital budgeting, and consideration of alternative sources of funds. Prerequisites: AC 201 and AC 202. 3:0:3
- FI 363 Financial Institutions and Markets**
A study of the macrofinancial environment with emphasis on the structure, functions, and economic role of financial institutions and markets. This includes the role of commercial banks, the central banking system and international finance. Prerequisite: EC 301. 3:0:3
- FI 405 Public Finance**
The impact of public finance on individual and business economic decisions; detailed consideration of the principles of taxation, public expenditures, the federal budgeting process, and state and local fiscal systems. Prerequisites: EC 141 and EC 142. 3:0:3
- FI 410 Problems in Corporate Finance**
A study of selected problems in financial management including short and long-term financial analysis and planning, trade-credit analysis, capital budgeting; use of case analysis. Prerequisite: FI 360. 3:0:3
- FI 415 Financial Analysis and Planning**
Analysis of the financial aspects of corporate business planning, evaluation of financial performance, valuation analysis, risk analysis, management of growth. Prerequisite: FI 360. 3:0:3
- FI 417 Investment Analysis and Management**
A study of investment alternatives, selection criteria, and portfolio management. Emphasis is placed on economic, financial, and market factors which affect the values of alternative investments, while studying risk management associated with investment management. Prerequisite: FI 360 or permission of the instructor. 3:0:3
- FI 425 Principles of Real Estate**
A study of real property, its legal title, transfer, ownership, finance, and management. Prerequisite: FI 360 or permission of the instructor. 3:0:3

FI 430

Public Financial Management

A study of financial functions performed in public and not-for-profit organizations with emphasis on financial reporting, budgeting, and accounting processes. Prerequisites: AC 201 and AC 202. 3:0:3

GG-GEOGRAPHY (NS)

GG 110

Cultural Geography (MGE)

A study of the political, sociological, demographic, and biological aspects of the human relationship to the environment. 3:0:3

GG 130

Human Geography (MGE)

The course is an introduction into cultural differences and spatial interactions within and between groups (religion, language, and customs) from around the globe. The course will also focus on human organization of space and how it impacts upon environment. 3:0:3

GG 140

Economic Geography (MGE)

The course will introduce the basic concepts and processes underlying the spatial distribution (international and regional) of economic activities. Topics such as agriculture, forestry, industry, and mining will be discussed. 3:0:3

GG 200

Geography of the United States and Canada

This introductory course is designed to closely examine variations in cultural and physical differences in North America. Topics will include water supply, climate, dialect, economics, and population. 3:0:3

GG 201

Geography of Africa

This comprehensive course will study the physical and cultural geography of the regions of the African continent. Topics will include: neocolonialism, slavery, health issues, environmental problems, population, and current political geographical issues. 3:0:3

GG 202

Geography of Latin America

This comprehensive course will study the physical and cultural geography of the regions of the South American and Middle American realms. Topics will include: the economic climate, environmental problems, population, and current political geographical issues. 3:0:3

GG 203

Geography of Europe

This comprehensive course will study the physical and cultural geography of the regions of the European continent. Topics will include: economic problems, environmental problems, population dynamics, and current political geographical issues. 3:0:3

GG 204

Geography of Asia

This comprehensive course will study the physical and cultural geography of the regions of the Asian continent. Topics will include: economic problems, environmental problems, population dynamics, and current political geographical issues of South, East, and Southeast Asia. 3:0:3

GG 205

Geography of Russia

This comprehensive course will study the physical and cultural geography of the regions of Russia and the former Soviet Union. Topics will include:

economic problems, environmental problems, population dynamics, and current political geographical issues involving Russia and its neighbors. 3:0:3

- GG 206** **Geography of the Middle East**
 This comprehensive course will study the physical and cultural geography of the regions of Southwestern Asia, Central Asia, and of the Eastern Mediterranean. Topics will include: economic problems, environmental problems, population dynamics, and current political geographical issues. 3:0:3
- GG 209** **Geography of Missouri and Kansas**
 Missouri and Kansas will be studied in detail with respect to physical, historical, cultural, economic, environmental, and social geography. 3:0:3
- GG 210** **Geography of Terrorism (MGE)**
 This is an introductory course for studying terrorist groups and their members in order to understand their origins and goals. The course will discuss the structure of terrorism in America, Africa, Asia, Europe, Latin America, and the Middle East and the current approach to counterterrorism. 3:0:3
- GG 223** **Urban Geography**
 The course will introduce the basic concepts of the physical characteristics of cities and the current and future problems urbanization presents humans on a global scale. 3:0:3
- GG 226** **Resources and People**
 This course is an in depth study of the interactions between physical systems and human activities, and their effects on the environment. Topics will include: population growth, food production, water supply, air pollution, and natural resource consumption. 3:0:3
- GG 270** **Spatial Analysis**
 This course will introduce students to techniques for the statistical analysis of spatial data. The course will cover issues in characterizing spatial data, methods and problems in spatial data sampling and the relevant statistical tests for solving a variety of spatial problems when they are applied to 2D and 3D space. 3:3:4
- GG 315** **World Physical Geography (MLL)**
 Examination of the major physical elements that comprise the earth's environmental surface on a global basis-water, landforms, climate, vegetation, and soil; their continuous interaction and relevance to man's occupancy of the earth on a global basis. 3:0:3
- GG 330** **Cartography**
 The course is designed to prepare students for the basics of map compilation, design, and construction. This course is laboratory intensive and emphasizes manual and computer means of map production. 3:3:4
- GG 335** **Remote Sensing**
 The course is designed to prepare students for the basics of using remotely sensed imagery from space. This course is laboratory intensive and emphasizes manual and computer means of map production. 3:3:4

- GG 340 Environmental Planning**
This course is designed to study and evaluate the air and water environments, solid waste, noise pollution, and toxic wastes for the purpose of achieving environmental quality. An emphasis will be placed on how urbanization is impacting the environment and will be studied by interpretive maps, soil surveys, remote sensors, and computers. 3:3:4
- GG 345 Land Use Planning**
An examination and application of the methods associated with land use planning, especially in the small town and rural context. Emphasis is placed upon the tools and techniques associated with land use planning such as interpretive maps, soil surveys, remote sensors, and computers. A major focus will be the use of the land planning process in community planning. Also included is an introduction to state and local land use law in community development. 3:3:4
- GG 350 Geographic Information Systems (GIS)**
This course introduces the student to the theoretical, conceptual, and practical aspects of the collection, storage, analysis, and display of spatial data. Emphasis will be placed on the application of geographic information systems. Laboratory projects involving student use of computers will be required. 3:3:4.
- GG 355 Advanced GIS**
This course is an advanced course that will have the student performing theoretical, conceptual, and practical aspects of the collection, storage, analysis, and display of spatial data. Emphasis will be placed on the applications of geographic information systems. Laboratory projects involving student use of computers will be required. 3:3:4
- GG 365 Geography of Disease (MLL)**
This course will study the origin, distribution patterns, and cultural biases of disease. Topics to be emphasized include: disease classification, spread of diseases, and major types of diseases (HIV+). 3:0:3
- GG 370 Biogeography**
The purpose of this course is to study the distribution of plants and animals across the Earth's surface. This Physical Geography course will expand upon principles of Ecology and Biology, and will focus on understanding ecosystem processes that impact both fauna and flora. Topics will include the study of communities, ecosystems, biomes, biodiversity, and island biogeography. 3:0:3

GO-GEOLOGY (NS)

- GO 101 Introductory Geology**
Course includes identification of rocks and minerals; their origin, destruction, recycling; surface processes of wind, water, and ice in changing the earth's surface; interior forces that cause earthquakes; mountain building; and plate tectonics. 3:0:3
- GO 105 Weather and Climate**
An examination of meteorological processes that will provide students with an understanding of Earth's fluid atmosphere and an appreciation of the role of these processes play in producing weather. Topics include: the origin

and evolution of the Earth's atmosphere, the structure and characteristics of the atmosphere, the Earth/Sun relationships and their influence on the seasons, controls of weather elements, energy exchange, and heat and water budgets. There is no laboratory component. 3:0:3

GO 125

Natural Disasters (MGE)

This course will study the earth's natural processes and phenomena that impact the earth. These natural impacts will be studied which result in massive damage to the earth and to its inhabitants. The course will explore how humans cope with natural disasters. Humans typically measure the damage in terms of loss of life or economic loss, but the end result is that these natural disasters influence human culture and population distribution. 3:0:3

**GO 130
(PY 130)**

Astronomy (MGE)

This course will study the complexities of the universe. It will examine the physical, chemical and meteorological, and geological aspects of the universe, including planets, suns, asteroids, and nebulae. 3:3:4.

GO 141

Introduction to Physical Geology (MGE)

The study of the earth, the materials which make it up and the mechanisms which change it. Students will explore these materials and processes in the laboratory. 3:3:4

GO 151

History of the Earth (MGE)

This is a survey of the history of the earth, including its continents, oceans, and life. The course will be divided into two parts: (1) An introduction into how the earth's history is recognized from the earth's materials and structures and (2) an examination of the past life and major geologic events that have been recorded. 3:3:4

GO 200

Oceanography (MGE)

This course will study the complexities of the global oceans. It will examine the physical, chemical, meteorological, biological, and geological aspects of the oceans while evaluating the oceans' role on humans. 3:3:4

GO 205

Introduction to Meteorology (MGE)

The study of the atmosphere and atmospheric phenomena and how they interact globally with the earth's surface, oceans, and life. In the laboratory, students will learn and use the methods used to study meteorological processes. Topics will include: controls of weather elements, energy exchange, heat/water budgets, and economic/social impacts of weather and climate. 3:1:4

GO 215

Selected Topics in Geology

This course will consist of an in-depth examination of specific areas of geology at the lower level. It may be repeated once for credit with a change in topic. Variable credit: 1-4 hours.

GO 300

Introduction to Dinosaurs (MLL)

This course is an introduction to the paleontology of dinosaurs. The preservation, history of dinosaur studies, evolution, classification, behaviors, extinction, and current topics concerning dinosaurs are discussed. This course satisfies the Liberal Learning requirement for the Natural Sciences majors. 3:0:3

- GO 310** **Sedimentology and Stratigraphy**
The purpose of this course is to study the origin of sedimentary rocks and the physical processes that commonly influence them (deposition to diagenesis). The other portion of the course focuses on knowing the various types of stratigraphic units and methods of dating and correlation. The laboratory exercises will reinforce these concepts. 3:3:4
- GO 315** **Special Topics in Geology**
This course will consist of an in-depth examination of specific areas of geology at the upper level. It may be repeated once for credit with a change of topic. Variable credit: 1-4 hours.
- GO 320** **Geomorphology**
The study of the earth's surface and the processes that shape it. Processes discussed include those associated with weathering, streams, glaciers, ground water, wind, oceans, and tectonics. Laboratory exercises will reinforce these concepts. 3:3:4
- GO 330**
(BI 330) **Paleobiology**
The study of the earth's past life, which will be examined in two parts: 1) an introduction to invertebrate and vertebrate paleontology that will focus on classification, relationships, and evolutionary history and 2) the uses of paleontological data in evolution, systematics, paleoecology and extinctions. 3:2:4

HC-HEALTH CARE (SS)

- HC 250** **Principles of the Health Care Process**
An introduction to the area of Medical Records Management, including ethical and legal issues. Topics include: history of medicine and medical records, identification of current trends in health care, departmental relationships and quality assurance in delivery of health care. 3:0:3
- HC 260** **Legal Issues in Health Care Delivery**
Private and public law related to health care organizations, personnel, ethics, care standards, and breach of care liability. Topics include: torts, contracts, statutory law, patients' rights, antitrust law, finance, medical records, and licensure, as well as constitutional and administrative law related to state and federal health care programs. 3:0:3
- HC 351** **Organization and Administration of Health Care Programs**
Structure and implementation of various types of health care organizations and their internal departments, administrative theory; utilization; facilities management; accreditation; strategic planning; decision making theory; medical, nursing, and support staff supply, supervision, and evaluation; financial management; human relations; research and development; organizational culture and change theory; and other internal and external forces. 3:0:3
- HC 451** **Health Care and the Political Process**
Analysis of the process of health policy formation at the federal, state, and local levels from historical and contemporary perspectives. Specific topics will include cost controls, utilization review, methods of changing public and private health policies, and political factors in health care delivery. 3:0:3

- HC 461 The Hospital and the Community**
 Issues specific to the organization and administration of hospitals, their scope of services in relation to community need, and relationships with community health care services. Topics covered dealing with the unique aspects of administration of hospitals and internal departments include improvement of organizational performance, personnel productivity, strategic planning, cost containment, materials management, image in the community, medical staff recruitment, patient census and utilization of services, and contracting for services from external suppliers. 3:0:3
- HC 463 Third Party Reimbursement and Risk Management**
 Public and private insurance, case management, preferred provider organizations, health maintenance organizations, and other forms of third party payment for health care services. Loss prevention for the health care organization through risk management and cost containment. 3:0:3
- HC 465 Basic Issues in Community Based Health Care Delivery**
 Historical and philosophical factors defining the functions and scope of current community and public health based health care delivery. Introduction to the concepts of epidemiology, ecology, community needs assessment, and social and cultural influences on utilization of health care by community aggregates. 3:0:3
- HC 466 Planning and Organizing Community Health Services**
 Organization and management of community based and public health agencies. Strategic planning for national, state, and local trends, community needs, and projected changes in society and health care. Administration of personnel, information systems, accreditation requirements, facilities, finances, external services contracts, community relations, and technology in clinics, home health, schools, industry, and other community based agencies. 3:0:3
- HC 491 Senior Seminar in Health Care Management**
 Capstone course in which students study selected topics on health care administration in-depth. It is highly recommended that all major core courses be passed before enrolling in this course. 3:0:3

HI-HISTORY (H)

- HI 101 Western Civilization I (MGE)**
 A study of the development of Western civilization from antiquity through the Middle Ages. Critical literacy and writing are emphasized. 3:0:3
- HI 102 Western Civilization II (MGE)**
 A study of the development of Western civilization from the Renaissance through modern times. Continued emphasis on critical literacy and writing. 3:0:3
- HI 201 Europe, 1789-1914 (GE)**
 A survey of the great movements of the 19th century beginning with the revolutions that rocked Europe from 1789-1848. The emphasis is on the French Revolution and the development of capitalism in England. 3:0:3

- HI 202** **Europe, 1914-1950s (GE)**
 A study of the major developments of the 20th century - the world wars, the international peace movement, the development of fascism and communism in the 1920s and 1930s as answers to industrial problems, and the remarkable revival of Europe after World War II. 3:0:3
- HI 205** **Themes in American History, 1492-1865 (GE)**
 An introductory course that traces distinctly American themes through the major events of early American history. The major themes include the promised land, the pursuit of money and land, and manifest destiny. The major events are the exploration of North America, settlement, conflict among European colonial powers, the Revolution, formation of a constitutional republic, and division of North and South into separate economic, political and cultural areas. 3:0:3
- HI 206** **Themes in American History, 1865-1945 (GE)**
 In this continuation of HI 205, the themes are applied to the major events of post Civil War America: industrialization, mass immigration of East Europeans, the birth of the great cities, the emergence of America as a world power, and the inability of the American economy to provide stability with prosperity. 3:0:3
- HI 307** **Europe in the Middle Ages (LL)**
 The course opens with a study of the rise of European institutions (church and state) from the ashes of the Roman Empire. It closes with a study of art, architecture, courtly love and literature, music, folklore and daily life, based on student research interests. 3:0:3
- HI 311** **Antebellum American Culture**
 A study of the distinctive regions of early American culture: industrial Northeast, plantation South and rapidly expanding frontier West. Other topics include: Jacksonian Democracy and the great American urge to reform; romanticism in writing; music and painting; popular culture and folk arts. 3:0:3
- HI 312** **America in the 1890s**
 Designed to follow HI 311. The industrialization of America is the major theme. American cities, giant corporations, capitalists and workers are discussed as well as the artistic reaction to industrialism, realism in literature and painting, ragtime and popular music and America's determination to possess a respectable culture. Focus is on the World's Columbian Exposition (Chicago) of 1893. This course will satisfy the EN 306 requirement for History majors. Prerequisites: EN 105, EN 106, passing the WCT and 60 accumulated hours. 3:0:3
- HI 313** **America and the World in the 1920s (MLL)**
 A research and writing course that focuses on the world of the 1920s from an American perspective. Following the most disheartening war in world history, the Twenties were a time of liberation and creativity, not in politics, but in international relations, in technology, science, business, literature, art and architecture, music, religion, philosophy, theater, and science. 3:0:3
- HI 314** **American Civilization Since 1945 (LL)**
 Reviews the developments of the last 50 years-phenomenal prosperity, suburbanization, expansion of individual rights, threat to the natural environment, decline of institutional loyalties, mass entertainment, the Cold War and America's leadership role in the world-within the context of the

American tradition. It introduces students to contemporary American magazines and writers and provides an opportunity to write family histories. 3:0:3

HI 314 A**Family History**

A one hour family research project that may be taken by students enrolled in HI 314. Co-requisite: HI 314. 1:0:1

HI 315**Contemporary Europe (MLL)**

A survey of European development since World War II, emphasizing the prosperity created by Europe's political and economic integration. Also emphasized will be Europe's perception of itself, its role in world affairs and its attractiveness to others. 3:0:3

HI 318**Africa Since 1800 (MLL)**

Discussion of major themes, ideologies, events, historiography, and personalities in African history from 1800 to the present. Topics include abolition of the slave trade, European imperialism, impact of colonial rule, emigration, artistic expressions, archeological and anthropological impacts, literature, language, geographical movements, decolonization, African resistance, religious and cultural movements, economic development and subordination, rise of nationalism, pan-Africanism, cultural imperialism, issues of ethnicity, and "tribalism" in modern Africa. 3:0:3

HI 319**Russia in the 20th Century (MLL)**

Begins with the failure of the democratic revolution of 1905, emphasizing the Revolution of 1917 and Russia under Lenin. The rise of Stalin, collectivization of agriculture and industrialization, World War II and the Cold War. New democratic stirrings and the collapse of the Soviet system. 3:0:3

HI 320**Ancient Greeks and the Classical Tradition (LL)**

A style of art, literature and life, classicism in ancient Greece promoted balance and harmony as the goal of life. Harmony is seen against the strife created by conflicting claims of individuals, families, gods and states. The course traces the influence of classicism on later eras of Western history, particularly on the Enlightenment in Europe and America, and suggests the power of the classical ideal today. 3:0:3

HI 321**19th Century Romantics and the Romantic Tradition (LL)**

With the French Revolution, a new culture developed in Europe. Emphasizing freedom, feelings and personal experience, romanticism expressed some of the aspirations of the middle class and opposed the narrow views of elitists. Students study some of the faces of romanticism (revolutionary politics, music, art, literature and religion), emphasizing the romantics enthusiasm for life. 3:0:3

HI 322**Modernism in the 20th Century (LL)**

A study of the twentieth century European and Western cultures. Dominant ideas are realism (in contrast to romanticism), irrationalism (in contrast to classicism) and alienation from family, institutions and general culture. War, politics, art, literature and science illustrate these ideas. 3:0:3

HI 330**U.S. Military History**

Studies the effect of the armed forces on American philosophy, history and government, covering the development of the U.S. military establishment from a largely provincial force (Spanish-American War, 1898) into an

instrument of national policy in world-wide operations. Emphasis is on the role of a professional military organization in a democratic society, with an in-depth study and critique of military operations in the twentieth century. 3:0:3

- HI 335 U.S. Military History: The African American Experience (MLL)**
This course examines the contribution of the African-American soldier, sailor, and airman to American military operations from the Revolutionary War to Desert Storm, and the many contemporary social, political, and economic factors which shaped, exploited, and sometimes limited their use in these wars. The course will also serve as a survey of U.S. military history. 3:0:3
- HI 340 Japan: Modernization of a Traditional People (MLL)**
Japanese are remarkable in combining traditional ways with modern industrial necessities. The first half-semester is a study of traditional Japan-Shinto, Buddhism, feudalism, samurai, tea ceremony and aristocratic aesthetics. The second half-semester traces industrialization in the 20th century and the Japanese persistent pursuit of harmony in all aspects of life. 3:0:3
- HI 343 The American Civil War: 1854-1865 (MLL)**
The period between 1854 and 1865 represented bloodshed, turmoil, fear, adventure, jubilation, and excitement. The eleven year strife that tore the United States apart was based on centuries of political, sectional, social, economic, racial and military differences. The experience represented by the Civil War defined American and Americans. This course will study the causes, conflicts, and the consequences of the Civil War. 3:0:3
- HI 350 American Environmental History (MLL)**
This course implements both a topical and chronological approach to the major historical issues Americans have faced through interaction with the natural environment. The major themes include, but are not limited to: Native American ecology and European contact, the rise of science, Romanticism and Transcendentalism, effects of tobacco and cotton southern soils, farm ecology in the early republic, nature versus civilization, the extraction of minerals in the west, parks and forests, Great Plains settlement, resource conservation in an industrializing society, wilderness preservation, irrigation and reclamation, urban pollution, and twentieth-century ecology. 3:0:3
- HI 351 American Constitutional and Legal History**
A study of selected eras and themes, ranging from British legal principles of the 17th century, through the principles of the American Revolution, the development of civil rights, the Civil War, the rise of big business and big government, "liberal" and "conservative" views of the constitution emerging from the 1960s. 3:0:3
- HI 353 American Foreign Policy in the Twentieth Century (MLL)**
An examination of the strengths and weaknesses of American diplomacy from the opening of Asia in 1898 through World War I and II, Korea and the Cold War, and the demise of the Soviet empire. 3:0:3
- HI 355 World War II (MLL)**
World War II is often considered to be the most influential event of the twentieth century. More than 57 million people died, over half of those civilians; it involved every continent, and more than 60 countries; it included

the Holocaust and the development of the world's most destructive weapon. In this course, we will study the causes of the war (about which historians disagree), the major battles, technology, the who's who, prisoners-of-war, the Holocaust and other atrocities, the atomic bomb, civilian involvement, politics, economics, and the post-war world. 3:0:3

- HI 360 American Sports History (MLL)**
This course implements both a topical and chronological approach to the major historical issues Americans have faced through athletic competition including (but not exclusively) sports in the colonial era, the rise of a modern sporting culture, sports and higher education, sports and industrial urbanization, sports and issues of social class, commercialization and professionalization of sports, women in sports, issues of race and ethnicity in sports, and image and hero emulation. 3:0:3
- HI 365 Kansas City: The City of the Heartland (LL)**
From an Osage hunting ground, Kansas City developed as an outfitting post for Indians, traders and wagoners, then as a rail, mill and packing center, and recently as a balanced center of commerce and manufacturing. Emphasis is on the process of urban growth. Students examine local writers and artists as they try to express the spirit of the Midwest. The blues and barbecue won't be forgotten. 3:0:3
- HI 367 The European City in History (MLL)**
A survey of European urban tradition from the Roman Empire to the present. The study of selected cities (e.g., Athens, Amsterdam, Tallinn, St. Petersburg) provides a singular perspective on European history. The positive characteristics of these cities include the attainment of political democracy and individual freedom, and the creation of major works of art, music and thought. Negative characteristics include environmental despoliation, crowding, and disease. 3:0:3
- HI 370 The American Indian (MLL)**
Using Indian and white sources, this course attempts to reconstruct life in selected Indian tribes before the onslaught of the whites and studies the conflict between Native Americans and Euro-American cultures. 3:0:3
- HI 373 History of Early Africa to the 18th Century (MLL)**
The history of Africa and the African people spans both millennia and the African continent. The course will provide a broad interdisciplinary survey-based on history, literature, religion, archeology, geography, anthropology, culture, society, politics, economics, and tribes-of African institutions from the earliest trace of human culture to the conclusion of the 18th century. 3:0:3
- HI 375 The American Frontier (MLL)**
A study of the American frontier from the point of view of those who created it and participated in its development. We will examine the art, music and literature of and about the frontier. We will, throughout the course, note the participation of non-Anglos along American frontiers, and contrast the American frontier with those of other continents. 3:0:3
- HI 378 Special Topics in History (MLL)**
Selected periods, ideas, and movements are studied. Variable credit: 1-3 hours.

- HI 385 India: Its People, Culture and History (MLL)**
This course is an attempt to explain the development of one of the most fascinating of the world's nation states and cultures. While providing students with a narrative that explains the religious, political and economic development of India, we will also examine the major cultural developments of interest to the international community: its caste system, yoga, its concepts of sex and marriage, its arts and architecture, its food and movies, its clothing industry. 3:0:3
- HI 399 World History: A Summary of the Human Experience**
Designed for history and social studies majors, this course attempts to put the human experience into a global perspective and to help students fill gaps in their knowledge of world civilizations. It is taught in seminar style, with each student making presentations in areas previously unfamiliar to them. The course also helps students to develop their own interpretations of history. Prerequisites: Senior standing and 15 credit hours of history. 3:0:3
- HI 405 History as Art and Discipline**
Advanced students explore the history of history, the evolution of its form and content, noting major theories and the kinds of evidence used. Students will become conversant with the major journals in the field today. This course prepares the road to the senior and examination in which students evaluate their own education as historians. 3:0:3
- HI 410 Internship: Historical Institutions**
For advanced students interested in careers involving historical preservation and wishing to work at one of the many historical institutions in the Kansas City area. A total of 120 clock hours of internship experience at a selected institution must be completed. 3:0:3

HN-DEGREE WITH HONORS PROGRAM
(Parkville Daytime Campus Center) (By Invitation)

- HN 300 Research and Writing Orientation**
This course provides a foundation for the completion of the final project in the Honors Option Program as well as opportunities to gain experience in conducting research. 1:0:1
- HN 302 Honors Scholarship**
This course must be taken a minimum of two (2) semesters and can be taken for an additional semester. The continued participation in the Program requires approval of the advisor(s) and the Honors Committee. The advisor(s) will directly oversee and guide the student and the student must continue to progress in their plan of study. Prerequisite: HN 300. 2:0:2
- HN 400 Honors Seminar**
This course requires final development of the public presentation of the project conducted by the student under guidance of their advisor(s). A major component of this course is the public presentation or other proper forum which allows exposure of the final product. Prerequisites: HN 300, HN 302. 3:0:3

HR-HUMAN RESOURCES (SS)

- HR 353** **Introduction to Human Resource Management**
Theory, methodology and application of human resource planning and development techniques, staffing analysis and planning, career management, management succession and development, and performance improvement. Prerequisite: MG 352 or HC 351. 3:0:3
- HR 421** **Corporate Training and Development**
A study of education, training and development in corporations. On-the-job training, computer based training, executive education and the role of outside vendors will be discussed. Prerequisite: HR 353. 3:0:3
- HR 422** **Organizational Development and Change**
This course will provide the student with an understanding of the basic theories and techniques of organizational development. We will focus on practical information regarding the design, management and control of organizational development programs in business, public sector and social services organizations. 3:0:3
- HR 434** **Compensation Management**
A study of compensation theories, policies, systems and practices with emphasis on the design of effective compensation programs. The course views compensation basically from the employer's point of view. 3:0:3.
- HR 491** **Senior Seminar in Human Resources Development**
This course is intended to integrate concepts and techniques from the Human Resources curriculum into a framework of applied programs. This course is designed for the advanced student and will give the student an opportunity to investigate and synthesize various concepts of Human Resources management and to relate them to "real world" situations. Prerequisite: EN306B. 3:0:3

HU-HUMANITIES (H)

- HU 211**
(LS 211) **Introduction to the Humanities (MGE)**
A study of disciplines and concerns that promote humanness (such as art, music, philosophy and religion) and critical thinking: moral values, myths, love, and freedom. 3:0:3
- HU 212**
(LS 212) **Introduction to the Arts (MGE)**
A study of the common elements in the visual, verbal and performing arts and how they reflect values of different cultural periods. The course also includes a survey of themes, genres, and representative work in the classical, romantic, and modern art forms. 3:0:3
- HU 215** **Selected Topics in Humanities**
An in-depth examination of specific areas in the humanities. May be repeated once for credit with change in topic. Variable credit: 1-3 hours.

HU 315

Special Topics in Humanities

An in-depth examination at an advanced level of specific areas in the humanities. May be repeated once for credit with change in topic. Variable credit: 1-3 hours.

IB-INTERNATIONAL BUSINESS (SS)

IB 315

International Business Perspectives (LL)

This course examines international business, especially the multinational corporation, from several perspectives: historical, business, political, cultural, economic and environmental. Attention is given to the impact and effect of the MNC upon traditional societies and nationalistic governments. Its future also is considered in the rapidly changing economies of Europe and the Third World. 3:0:3

IB 431

International Finance

An in-depth study of the financing of international transactions and multinational business operations with emphasis on sources of funds, financial services, analysis of currency problems and exchange controls, and the functioning of foreign money and capital markets. Prerequisite: FI 360. 3:0:3

IB 451

Seminar on International Business

A study of strategic planning and international business policy using extensive reading and cases in the international business field which includes insights into the historical, cultural, and political foundations that created problems and opportunities and the solutions and course of action taken in response. The course content is flexible and analyzes specific problem areas that are current at the time the course is offered. Each student will submit a capstone research paper reflecting the standards, substance and quality of a professional international business publication. Prerequisites: EN306B and completion or concurrent enrollment in all other international business core courses. 3:0:3

IB 461

International Business Internship

A field placement in an international firm or in the international department of a multinational firm in a professional career position usually filled by a college graduate. Open only to seniors in international business that have completed most of their major requirements. A minimum of 40 hours a week during summer term or 20 hours a week during a regular semester. 6 credit hours. Grading for this course is pass/fail.

IS-INFORMATION SYSTEMS (NS)

IS 205

Managing Information Systems

This course introduces the student to management information systems concepts. The course will present a variety of data processing facilities. Course topics include: transaction reporting, information reporting, decision support systems, system development life cycle, office automation, and job descriptions and requirements. Suggested Prerequisite: CS 140. 3:0:3

IS 206

Information Systems Management I

This course introduces the student to information systems concepts and the

management concerns of information technology. The focus of the course is on the components, types, and management concerns of information systems which, when combined, support an enterprise. One key component covered is operating systems. Prerequisite: CS 140. 3:0:3

IS 207

Information Systems Management II

Students explore the enterprise perspective on controlling the use of information systems. The course will present multiple approaches to systems development. Additionally, the course will cover change, project, risk, and quality management. Prerequisite: IS 206. 3:0:3

IS 216

COBOL I

The student will develop structured, modular algorithms. The student will implement algorithms using COBOL. The student will learn the basic features of COBOL. Prerequisite: CS 151. 3:0:3

IS 217

COBOL II

Continuation of IS 216. This course introduces the student to sorting, merging files, arrays, and data validation. The course also introduces sequential, indexed, and relative file processing. The student learns about interactive processing and the methodologies used for developing larger programs. Prerequisite: IS 216. 3:0:3

IS 310

Business Applications (MLL)

Business Applications provides an opportunity for students to understand issues surrounding the effect of emerging technologies upon multiple organizational environments. Students will explore the use of technology by organizations to solve problems as well as gain strategic competitive advantage in the market place. Students will individually investigate the advanced capabilities of Productivity Software to solve relevant business problems. Upon completion of the course, group projects will demonstrate knowledge of concepts learned. The design of projects will necessitate the use of analysis, synthesis, and evaluation activities. This course cannot be used as an LL, for ICS or M/CIS majors. 3:0:3

IS 315

Computer Systems Analysis and Design I

This course presents various philosophies, terminology, and techniques used in the analysis and implementation of the system development life cycle. The student will investigate such areas as project proposals, logical systems, flow diagrams, data modeling, dictionaries, and documentation. The student will learn how to use a CASE tool. Prerequisite: IS 205. 3:0:3

IS 316

Computer Systems Analysis and Design II

Continuation of IS 315. The student will continue to study the concepts and methods used in a system development life cycle. In addition, the student will gain practical experience by working on various projects. The student will use a CASE tool for his/her project work. Prerequisite: IS 315. 3:0:3

IS 317

Systems Analysis and Design

This course will study the concepts and methods used in the analysis, design and implementation of information systems development. The student will investigate such areas as project initiation, logical and physical design, modeling, prototyping, and use of multiple methodologies in information systems development. Prerequisite: IS 207. 3:0:3

IS 320

Object-Oriented Modeling

Object-Oriented modeling is utilized to decompose complex problems into

smaller, more manageable components, objects, that can be easily created with object-oriented technologies. Students will explore the principles of object-orientation and utilize Unified Modeling Language (UML) to define objects, their behaviors, and relationships to other objects. The student will investigate approaches to object-oriented development and the relationship to implementation in such technologies as Java. Prerequisite: IS 317. 3:0:3

IS 361

Data Management Concepts

This course provides an overview of data management concepts. This course will explore the enterprise perspective of managing data needs of an organization. This includes data integrity, database models, and integration of databases, security, and database administration issues. The student will be introduced to query processing within a database environment.

Prerequisite: CS 219. 3:0:3

IS 362

Applied Database Management

This course builds on the Data Management Concepts course and focuses on the creation, administration and use of databases. This course assumes a knowledge of database system concepts. The student will be introduced to application program development in a database environment with emphasis on setting up, modifying, and querying a database. Prerequisite: IS 361.

3:0:3

IS 450

Systems Analysis Senior Seminar

This is a capstone course in which seniors exhibit skills and knowledge gained in the analysis and design of an information systems solution.

Students will apply best practices in solving an organizational problem with technology. Such concepts include: problem solving, methodology, project management, and use of related tools. Prerequisite: IS 317. 3:0:3

IS 470

Security and Risk Management

Explore the threats and risks present in organizations due to the pervasive use of technology. Learn risk evaluation techniques and identify security and control techniques used to minimizing threats and risk to the organization. Computer and information security topics emphasized include threat techniques, protective techniques, risk analysis, contingency planning, password techniques, encryption, network protocol and intercept devices.

Prerequisite: CS 365. 3:0:3

LA-LATIN AMERICAN STUDIES (H)

LA 305

History and Culture of Latin America

The historical portion of this course is designed to familiarize the student with both the pre-history and history of Latin America from the Paleolithic period to the present. It will be a combined anthropological and historical approach that will enable the student to better understand the Latin America of today through an awareness of the historical process that has largely shaped its present. The cultural portion will combine an ethnological and sociological approach in an effort to increase student awareness of the present state of Latin American culture. 3:0:3

LA 306

History and Culture of Mexico

The historical portion of this course is designed to familiarize the student with both the pre-history and history of Mexico from the Paleolithic period to the present. It will be a combined anthropological and historical

approach that will enable the student to better understand the Mexico of today through an awareness of the historical process that has largely shaped its present. The cultural portion will combine an ethnological and sociological approach in an effort to increase student awareness of the present state of Mexican society. 3:0:3

LA 307

History and Culture of Spanish America

The historical portion of this course is designed to familiarize the student with both the pre-history and history of each of the nations. The emphasis will be upon the larger and more important of these nations, specifically: Argentina, Brazil, Venezuela, and Columbia. The cultural portion will be designed to lead to a greater awareness of the similarities and differences that characterize the social structure of each of these nations today. 3:0:3

LA 308

History and Culture of Central America and the Hispanic Caribbean

The historical portion of this course is designed to familiarize the student with the pre-history and history of each of the seven nations that comprise Central America. Each will be taken in turn and considered from its beginning to the present. Attention will also be given to the historical development of the Caribbean Islands-Cuba, Jamaica, Puerto Rico, and Haiti. The cultural portion will be designed to lead to a greater awareness of the similarities and differences that characterize the social structure of each of these areas today. 3:0:3

LG-LOGISTICS (SS)

LG 201

Systems Engineering and Analysis

A study of the design, development, direction, management, and control of the systems engineering process. Emphasis is placed on the application of quantitative and qualitative techniques to systems analysis, evaluation and performance. Prerequisite: MA 120. 3:0:3

LG 302

Logistics Engineering

An overview of the general area of logistics, its nature, scope and process; a critical examination of logistics management functions and the interrelationships among strategic support and operational logistics. Prerequisite: LG 201. 3:0:3

LG 312

Transportation and Distribution Systems

Principles and practices of transportation and its role in the distribution process. The physical transportation system of the United States and its performance; carrier responsibilities and services; economic and legal bases of rates, freight classification and tariffs; public policy regarding regulation; transportation issues and problems. 3:0:3

LG 324

Contract Management and Law

A study of the procurement and contracting process with emphasis on the organization, policy formulation, procedures, and administration of purchasing activities and functions. Prerequisite: MG 260. 3:0:3

LG 415

Quality Control

A study of quality planning and control systems including application and statistical quality control theory to the design of quality control systems; the impact of quality on logistics and the procurement process. Prerequisite: MA 120. 3:0:3

- LG 424** **Purchasing and Vendor Management**
A study of the procurement and contracting process including planning, developing, and contracting for major systems. Topics include: purchasing policy and strategy, value, analysis engineering, quality assurance, make-or-buy decisions, principles of inventory management, institutional and government purchasing management. 3:0:3.
- LG 426** **Logistics Management**
A critical examination of the logistics system with emphasis on managerial functions within the system and analytical techniques used in planning and control of the various subsystems. Prerequisite: MG 101 or MG 352. 3:0:3

LS-LIBERAL STUDIES (H)

- LS 211**
(HU 211) **Introduction to the Humanities (MGE)**
A study of disciplines and concerns that promote humanness (such as art, music, philosophy and religion) and critical thinking; moral values, myths, love, and freedom. 3:0:3
- LS 212**
(HU 212) **Introduction to the Arts (MGE)**
A study of the common elements in the visual, verbal and performing arts and how they reflect values of different cultural periods. The course also includes a survey of themes, genres, and representative work in the classical, romantic, and modern art forms. 3:0:3
- LS 299** **Field Trips in the Humanities**
Analysis of humanists and artistic works and events and exposure to those works through field trips in the Kansas City area. May be repeated with permission of advisor. 1:0:1
- LS 301** **Contemporary Issues (MLL)**
Studies in leading contemporary issues, problems, and concerns viewed from interdisciplinary perspectives. The course also reviews different types of writing essential to success in college and professions. 3:0:3
- LS 304** **Special Topics in Liberal Studies**
The course deals with various topics in the arts and the humanities, especially those that involve interdisciplinary studies or studies concerning contemporary issues in culture and society. Topics that involve creative performance or service-oriented activities are encouraged for this course. Variable credit: 1-3 hours.
- LS 400** **Senior Project**
An independent project course for liberal studies majors. The project may be scholarly or creative and must have relevance to the students concentration(s). It may be a study of particular genre, theme, period or works of a particular writer or artist. The student and the major advisor must agree on the nature, area, scope, and method of evaluation of the project. Liberal Studies majors must take a total of six hours. 3:0:3

MA-MATHEMATICS (NS)

- MA 105** **Introduction to College Mathematics**
 The course objective is to improve basic mathematical skills through a systematic application of these skills to contemporary problems. Topics considered include: various applications from consumer mathematics, tables and graphs, systems of measure. Students who have successfully completed MA 106 may not enroll in this course. Prerequisite: PK 118 or satisfactory score on mathematics placement examination. 3:0:3
- MA 106** **Introduction to Business Mathematics**
 An introduction to the basic mathematics via an application to business principles. An examination will be made of the quantitative aspects of business activities such as accounting, marketing, financial and managerial operations, and computer applications. Students who have successfully completed MA 105 may not enroll in this course. Prerequisite: PK 118 or a satisfactory score on the mathematics placement examination. 3:0:3
- MA 110**
(ED 110) **Geometry for Teachers**
 A consideration of selected topics from basic Euclidean geometry with emphasis on proper terminology and unification of concepts. Techniques available for teaching the basics are discussed. 3:0:3
- MA 120** **Basic Concepts of Statistics (GE)**
 A development of certain basic concepts in probability and statistics that are pertinent to most disciplines. Topics include: probability models, parameters, statistics and sampling procedures, hypothesis testing, correlation, and regression. 3:0:3
- MA 131** **College Algebra**
 Fundamentals of basic algebra. Topics include: the real number system, basic operations of algebra, linear and quadratic equations, inequalities and functions, and graphs. Additional topics may include exponents and logarithms, fundamental techniques of counting. 3:0:3
- MA 141** **College Trigonometry**
 A study of the circular functions including identities, sum and difference formulas, double and half angle forms, triangle solutions, and trigonometric equations. Prerequisite: MA 131 or equivalent. 3:0:3
- MA 150** **Precalculus Mathematics**
 A consideration of those topics in algebra and trigonometry necessary for the calculus. Topics include: mathematical analysis of the line, the conic sections, exponential and logarithmic functions, circular functions, polynomial and rational functions, mathematical induction, and theory of equations. Prerequisite: MA 131 or equivalent. 3:0:3
- MA 208**
(CS 208) **Discrete Mathematics**
 This course introduces the student to selected finite systems pertinent to the study of computer science. Course topics will include the following: mathematical induction, sets, relations functions, matrices, graphs, trees, combinational analysis, Boolean algebra, and other structures. Prerequisite: Any math course > MA 131. 3:0:3

- MA 210** **Calculus and Analytic Geometry I**
The study of the calculus begins with an examination of the real number system and the Cartesian plane. Additional topics to be considered include: functions and their graphs, limits and differentiation techniques, the mean value theorem, application of the derivative, indefinite integration, the trigonometric functions. Prerequisite: MA 150 or equivalent. 3:0:3
- MA 211** **Calculus and Analytic Geometry II**
The study of the calculus continues with the definite integral and its applications, transcendental functions, integration techniques, the conic sections, polar coordinates, parametric equations, indeterminate forms and improper integrals. Prerequisite: MA 210 or equivalent. 3:0:3
- MA 212** **Calculus and Analytic Geometry III**
The algebra and calculus of vectors and vector functions, constant termed sequences and series, power series and convergence criteria. Prerequisite: MA 211. 3:0:3
- MA 213** **Calculus and Analytic Geometry IV**
A study of multi-dimensional spaces, functions in multi-dimensional space, partial differentiation, multiple integration. Prerequisite: MA 212. 3:0:3
- MA 301** **Mathematical Thought**
A transition course for the mathematics major, this offering provides an overview of the subject as a study of systems. Topics include: informal and formal logic, theory of sets, formal development of the number system of mathematics. Prerequisite: permission of the instructor. 3:0:3
- MA 302** **Ordinary Differential Equations**
An introduction to ordinary differential equations and their solutions in the complex field. Topics include: series solutions and Laplace transforms. Prerequisite: MA 212. 3:0:3
- MA 305** **Probability**
Essentially a noncalculus approach to the theory and statistical application of probability. Topics include: discrete and continuous random variables, density and distribution functions, probability models, non-parametric statistics. Prerequisite: MA 131 or equivalent. 3:0:3
- MA 311** **Linear Algebra**
Topics include the general methods of solving systems of equations, determinants and matrices, vector spaces, linear transformations and introduction to simplex algorithms. Prerequisite: MA 212. 3:0:3
- MA 312** **Abstract Algebraic Structures**
A study of several algebraic systems from a postulational viewpoint. Systems studied include groups, rings, integral domains, and fields. Prerequisites: MA 212 and MA 301. 3:0:3
- MA 350** **History of Mathematics (MLL)**
An introduction to the history of mathematics with emphasis on the contributions of the many and diverse cultures which have influenced the development of the discipline. Cultures studied include: the Egyptians, Babylonians, Greeks, Romans, Arabs, Medieval Europeans, and Renaissance Europeans. Topics include: the Pythagorean Theorem, perfect numbers, classic construction problems, the Golden Ratio, noteworthy mathematicians and current trends. It is strongly recommended that the student has passed MA 131 or its equivalent. One field trip is required. 3:0:3

- MA 360** **Modern Geometries**
A study of the foundations of modern Euclidean geometry as well as finite geometries and non-Euclidean geometries. Prerequisite: MA 212 and MA 301, or permission of the instructor. 3:0:3
- MA 370** **Number Theory**
An introduction to the theory of numbers. Topics include: congruences and residue classes, the theorems of Euler and Fermat, and number-theoretic functions. Prerequisites: MA 212 and MA 301, or permission of the instructor. 3:0:3
- MA 380** **Mathematical Statistics**
A calculus-based study of probability and statistics for mathematics and science majors. Topics include: sample spaces, random variables and probability distributions, moment generating functions, transformations of random variables, laws of large numbers and the central limit theorem, regression analysis, and analysis of variance. Prerequisite: MA 305 3:0:3
- MA 401** **Analysis**
A rigorous treatment of functions, limits, continuity, differentiation and integration of functions of one and several real variables. Introduction to the calculus of functions of a complex variable. Prerequisites: MA 212 and MA 301. 3:0:3
- MA 402** **Topology**
An introduction to the topology of Euclidean space, metric spaces, and general topological spaces. Prerequisite: MA 401 or permission of the instructor. 3:0:3
- MA 406** **Special Topics in Mathematics**
This course provides an opportunity for directed study in areas not necessarily included in formal course work. Prerequisite: permission of the instructor. Variable credit: 1-3 hours.
- MA 450** **Seminar in Mathematics**
A capstone course for the mathematics majors. Topics may include: selected readings and discussion of the history and philosophy of mathematics, the golden ages and crises in mathematics. Student presentations are required. One field trip required. Prerequisite: MA 301 and permission of the instructor. 3:0:3

MG-MANAGEMENT (SS)

- MG 101** **Introduction to Management**
Basic functions of management with emphasis on the behavioral problems management faces in adopting and implementing policy. 3:0:3
- MG 110** **Introduction to Business (MGE)**
Provides for business and non-business students an overview of business in our modern American society. Examines the development of our business system, social responsibility of business, and the functions of management, marketing, personnel, production, accounting, finance investments, insurance, and business law. Career opportunities in business are explored. 3:0:3

- MG 260 Business Law I**
Introduction to the law: contracts, agency, employment, and negotiable instruments; comparison of social responsibility and legal aspects of selected issues. 3:0:3
- MG 261 Business Law II**
A continuation of the study of contracts, agency, employment, and negotiable instruments; comparison of social responsibility and legal aspects of selected issues. Prerequisite: MG 260 3:0:3
- MG 268 Office Administration**
Layout and organization of an office, design and control of equipment and supplies; business information processing systems; human relations; and cost reduction. 3:0:3
- MG 271 Principles of Supervision**
A study of leadership skills for persons in supervisory positions. Topics include: methods of training employees, employee rating, improving personal leadership, interpreting organization policies, and obtaining the maximum results through the efforts of others. 3:0:3
- MG 273 Records Management**
A study of the procedures, personnel, and equipment necessary to establish an efficient system of records management. Topics include: classification systems; creation and control of forms, correspondence, and reports; microforms; records inventory; evaluation and planning of records management programs; retention and disposition schedules; and supplies and equipment. 3:0:3
- MG 280 Students in Free Enterprise (SIFE) (MGE)**
This is a Multicultural General Education course. In conjunction with Students in Free Enterprise (SIFE), students will develop and implement projects to foster the principles of free enterprise which help local business and the community. 3:0:3
- MG 290 Selected Topics in Business**
An in-depth examination of specific areas of business and management. May be repeated once for credit with a change in topic. Variable credit: 1-3 hours.
- MG 352 Principles of Management (MLL)**
Examines the functions, activities and principles of leadership in business and other institutions. Philosophy, history, current practice and issues in leading, planning, organizing, and controlling organizations such as communication, motivation and interpersonal relations. Lecture, discussion and cases are used. 3:0:3
- MG 354 Small Business Management (MLL)**
A detailed study of the relationship and functions of accounting, management, financial management, and marketing in the successful initiation and operation of a small business. 3:0:3
- MG 365 Organizational Behavior**
Examines theoretical and practical perspectives and experiences in the areas of motivation and human relations; individual behavior, small group behavior, intergroup behavior; organizational effectiveness, and organizational development. Lecture, discussion and cases are used. Prerequisite: MG 352. 3:0:3

- MG 375 Production and Operations Management**
Study of the design, planning and operations and control of manufacturing processes, material management, inventory quality control systems, work measurement and production standards. Prerequisites: MA 120, FI 360, MG 352 or equivalents. 3:0:3
- MG 401 Senior Seminar in Management**
Consideration of managerial problems and/or policies. Topics include: the role of values and assumptions in administrative situations, especially their influence on administrators choices among possible ends and means; the skills, attributes and personal qualities that enhance effectiveness of responsible individuals as they work with others in organizations; and the determinants of organization and executive action. Prerequisites: MG 352 and EN 306B or equivalent. It is strongly recommended that all major core courses be completed prior to enrolling in this course. 3:0:3
- MG 420 Labor Relations**
Consideration of the development, legal environment, and current problems of the industrial relations system. Emphasis is placed upon the historical evolution of both the union movement and the legislative system that shapes its activities. 3:0:3
- MG 440 Complex Organizations**
A sociological approach to the study of organizations. Focuses on theoretical perspectives, characteristics of organizations, the interrelationship of organizational variables, and other related topics. Prerequisites: MG 352 and MG 365. 3:0:3
- MG 460 Business Internship**
Open to seniors who have demonstrated outstanding academic work in business who want to explore the practical applications of business theory in a professional work environment. Enrollment with the consent of the department. Prerequisite: Completion of core courses in business and economics. Variable credit: 3-12 hours. Grading for this course is pass/fail.
- MG 465 Independent Study in Business**
Individual research dealing with secondary sources on an approved topic in business. Prerequisite: major in business administration, economics or accounting. Variable credit: 1-4 hours.
- MG 490 Special Topics in Business Administration**
A course based on subjects outside the current offerings. Prerequisite: permission of the instructor. Variable credit: 1-3 hours.
- MG 495 Business Policy**
A series of business cases and materials dealing with a variety of problems confronting general management selected to illustrate the major areas of managerial concern: environmental opportunities and constraints, formulation of business policy, organization for business activity and marshalling of resources for achieving objectives of the firm. Prerequisites: EN 306B and completion of business/management core or permission of instructor. 3:0:3

MI-MILITARY SCIENCE (SS)

(Courses Offered for Parkville Daytime Campus Center Army ROTC Program and Campus Centers with Cross town Agreements)

- MI 101** **Basic Military Science I**
Introduction to the United States Military Defense System and the ROTC program. Provides instruction in basic military skills, military terminology, organization, leadership, and marksmanship. 1:0:1
- MI 102** **Basic Military Science II**
Introduction to rappelling and basic mountaineering techniques. Examination of basic survival skills and techniques. 1:0:1
- MI 210** **Basic Military Science III**
Introduction to military topography and the basic skills of map reading and land navigation. 1:0:1
- MI 211** **Basic Military Science IV**
Continuation of instruction in basic military skills, to include first aid, leadership. Also includes advanced rappelling skills. 1:0:1
- MI 301** **Advanced Military Science I**
Examination of military ethics and professionalism, Army training management, the principles of war, the laws of wars, Geneva Convention rules, and traditional leadership values. 3:0:3
- MI 310** **Advanced Military Science II**
Fundamentals of leadership in tactical operations, to include the effect of weather and terrain on unit deployment; formulation of oral and written operational orders; and the collection and use of combat intelligence in the decision making process. A writing project is required. 3:0:3
- MI 401** **Advanced Military Science III**
Study and application of the principles of organization and management, the decision-making process, and organizational communication systems. Examination of the techniques of counseling and other management skills required to meet organizational goals. A writing project is required. 3:0:3
- MI 410** **Advanced Military Science IV**
Advanced study of leadership and management. Examines the administration of military justice. Concludes with an overview of the obligations and responsibilities of an officer. This is the capstone course for all previous instruction. A writing project is required. 3:0:3

Aerospace Studies - Courses offered for Parkville Daytime Campus Center Air Force ROTC Program and Campus Centers with Crosstown Agreements.

- MI 101 AF** **Introduction to the Air Force Today I**
A survey course designed to introduce student to the United States Air Force and Air Force Reserve Officer Training Corps. Featured topics include: mission and organization of the United States Air Force, officership, and professionalism, military customs and courtesies, Air Force opportunities and benefits, and written communications. A mandatory Leadership Laboratory (MI 499) complements this course by providing cadets with followership experiences. 1:0:1

- MI 102 AF** **Introduction to the Air Force Today II**
 A survey course designed to introduce students to the United States Air Force and Air Force Reserve Officer Training Corps. Featured topics include: mission and organization of the United States Air Force, a macro history of the United States military, Air Force opportunities and benefits, group leadership projects and oral communication. A mandatory Leadership Laboratory (MI 499) complements this course by providing cadets with followership experiences. 1:0:1
- MI 201 AF** **The Air Force Way I**
 A survey course designed to facilitate the transition from ROTC cadet to Air Force ROTC officer candidate. Featured topics include: Air Force heritage and leaders, development of air-power doctrine from the invention of the airplane through the present, and written communications. A mandatory Leadership Laboratory (MI 499) complements this course by providing cadets with their first opportunity to apply leadership experiences discussed in class. 1:0:1
- MI 202 AF** **The Air Force Way II**
 A survey course designed to facilitate the transition from ROTC cadet to Air Force ROTC officer candidate. Featured topics include: Introduction to leadership, quality Air Force management tools, ethics and values, oral-communication group, leadership projects. A mandatory Leadership Laboratory (MI 499) complements this course by providing cadets with their first opportunity to apply leadership experiences discussed in class. 1:0:1
- MI 301 AF** **Air Force Leadership and Management I**
 A study of leadership principles and perspectives, leadership ethics, and communication skills required of an Air Force junior officer. Case studies are used to examine Air Force leadership and management situations as a means of demonstrating and exercising practical application of concepts being studied. A mandatory Leadership Laboratory (MI 499) complements this course by providing advanced leadership experiences in officer-type activities, giving the student an opportunity to apply leadership and management principles. 3:0:3
- MI 302 AF** **Air Force Leadership and Management II**
 A study of quality management fundamentals, professional knowledge, Air Force Doctrine, and communication skills required of an Air Force junior officer. Case studies are used to examine management situations as a means of demonstrating and exercising practical applications of concepts being studied. A mandatory Leadership Laboratory (MI 499) complements this course by providing advanced leadership experiences in officer-type activities, giving the student an opportunity to apply leadership and management principles. 3:0:3
- MI 401 AF** **National Security Affairs**
 An examination of the national security process, regional studies, advanced leadership ethics, Air Force doctrine, and current issues affecting military professionalism. Within this structure, emphasis is placed on refining communication skills. A mandatory Leadership Laboratory (MI 499) complements this course by providing advanced leadership experiences in officer-type activities, giving the student an opportunity to apply leadership and management principles. 3:0:3

MI 402 AF

Preparation for Active Duty

This course is the final step in preparing an officer candidate for active duty. It includes examination of the military as a profession, officership, military justice, and civilian control of the military. It also familiarizes the student with the roles of various Air Force base agencies. Within this structure, emphasis is placed on refining communication skills. A mandatory Leadership Laboratory (MI 499) complements this course by providing advanced leadership experiences in officer-type activities, giving the student an opportunity to apply leadership and management principles. 3:0:3

MI 499 AF

Leadership Laboratory

The MI 100 and MI 200 Leadership Laboratory (LLAB) courses include a study of Air Force customs and courtesies, drill ceremonies, military commands and Air Force opportunities. MI 300 and MI 400 courses provide advanced leadership experiences that involve planning, organizing, and executing cadet training activities, as well as, preparing and presenting briefing and other oral/written communications. 0 credit.

MK-MARKETING (SS)

MK 351

Principles of Marketing

Examines factors relevant to the marketing mix (product, promotion, distribution, and price) and to marketing management. 3:0:3

MK 380
(CA 380)**Advertising**

Designed to give the student an understanding of the creation, design, and production of material for advertising campaigns in all media. Suggested Prerequisite: MK 351 or equivalent. 3:0:3

MK 385
(CA 385)**Consumer Behavior**

An integrated approach to the study of various behavioral concepts and theories useful for understanding consumer behavior and its relevance to the development of effective marketing strategies. 3:0:3

MK 386

Retailing Administration

The basic concepts and analytical tools of retailing; types of organizational structure; store location; personnel; merchandising; promotion; services; and control techniques. Prerequisite: MK 351 or equivalent. 3:0:3

MK 389

Professional Selling

A study of the personal selling process with emphasis on the contributions of behavioral theories and on the legal, ethical, and social responsibilities of selling professionals. Prerequisite: MK 351. 3:0:3

MK 395

International Marketing

An in-depth study of the methods of establishing and servicing foreign markets with emphasis on pricing, promotion, and distribution channels given the complex effects of international, cultural, legal and business practice environments. Exporting, importing and tariff barriers are also covered. Prerequisite: MK 351. 3:0:3

MK 401

Sales Management

Review and analysis of approaches to planning, organizing, training, developing, compensating, directing, and controlling the sales force in support of marketing objectives. Use of case materials. Prerequisite: MK 351. 3:0:3

- MK 411 Marketing Management**
Study of the theoretical foundations, the methods and the environment of marketing, management. Topics include: consumer behavior, product policy, channel management, pricing and promotion. Prerequisite: MK 351. 3:0:3
- MK 453 Marketing Research and Information Systems**
Examines the application of research methods to the problems of marketing. Consideration is given to research procedures, sources of data and management's use of information for decision making. Prerequisites: EC 315 and MK 351. 3:0:3
- MK 455 Promotional Policies and Strategies**
A study of the specific role of the various promotional mix elements in relation to the overall marketing strategy. Prerequisite: MK 351. 3:0:3
- MK 491 Seminar in Marketing**
Intensive studies of selected current issues in marketing through seminars, workshops, and forums. Prerequisite: Twelve hours of marketing or instructor approval. 3:0:3

ML-MODERN LANGUAGES (H)

- ML 100-300 Exploring Modern Languages**
Course designed to allow the teaching of modern languages not found in the normal course offerings. Each 3:0:3
- ML 215 Selected Topics in Languages**
An intermediate level language course that treats topics of contemporary interest. 3:0:3
- ML 315 Selected Topics in Literature and Culture**
An advanced level course that examines issues pertaining to issues of culture, society, literature, and history. 3:0:3
- CN 101 Elementary Chinese I**
An introductory course with emphasis on pronunciation and the basic elements of grammar; practice in understanding, speaking, reading, and writing. 3:0:3
- CN 102 Elementary Chinese II**
The introduction of more complex elements of grammar; additional practice in understanding, speaking, reading, and writing. Prerequisite: CN 101 or equivalent. 3:0:3
- CN 103 Elementary Chinese I**
An introductory course with emphasis on pronunciation and the basic elements of grammar; practice in understanding, speaking, reading, and writing. Some lab required. 3:1:4
- CN 104 Elementary Chinese II**
The introduction of more complex elements of grammar; additional practice in understanding, speaking, reading, and writing. Some lab required. Prerequisite: CN 103 or equivalent. 3:1:4

- CN 201 Intermediate Chinese I**
Students will work on building vocabulary and comprehension and increasing speaking ability. Everyday life situations and current events will be discussed in class. A grammar review of CN 101 and CN 102 will also be included. Prerequisites: CN 101 and CN 102 or two years of high school Chinese. 3:0:3
- CN 202 Intermediate Chinese II**
A continuation of CN 201. Vocabulary is put to added work in composition. Prerequisite: CN 201 or two and one half years of high school Chinese. 3:0:3
- CN 310 Independent Readings in Chinese**
Materials and credit to be arranged with the instructor. May be repeated for up to six hours of credit with permission of the instructor. Prerequisite: CN 202 or three years of high school Chinese. Variable credit: 1-3 hours.
- FR 101 Elementary French I**
Areas covered in this course include vocabulary building, grammar, conversation, and introduction to French culture and civilization. Emphasis is on conversation. 3:0:3
- FR 102 Elementary French II**
This course continues the presentation of vocabulary and basic structural patterns begun in Elementary French I with emphasis on comprehension, speaking, reading, and writing skills. Prerequisite: FR 101 or one year of high school French. 3:0:3
- FR 103 Elementary French I**
This course will introduce students to the four language skills (speaking, listening, reading and writing) that will enable them, on a limited basis, to understand and communicate about topics of everyday importance. Through various media, students will also learn about cultural differences in the French-speaking world. Some lab required.. 3:1:4
- FR 104 Elementary French II**
This course continues to develop competency in producing the French language, both spoken and written. Emphasis is placed upon student's ability to communicate effectively in short conversations and basic writings, as well as to grasp the meaning of what they hear and read. Some lab required. Prerequisite: FR 103 or equivalent. 3:1:4
- FR 201 Intermediate French I**
Students work on building vocabulary and comprehension and increasing speaking ability. Everyday life situations and current events are discussed in class. A grammar review of FR 101 and FR 102 will be included. Prerequisite: FR 102 or two years of high school French. 3:0:3
- FR 202 Intermediate French II**
A continuation of FR 201. Vocabulary is put to added work in composition. Prerequisite: FR 201 or two and one half years of high school French. 3:0:3
- FR 310 Independent Readings in French**
Materials and credit to be arranged with the instructor. May be repeated for up to six hours of credit with permission of the instructor. Prerequisite: FR 202 or three years of high school French. Variable credit: 1-3 hours.

- GE 101 Elementary German I**
Areas covered in this course include vocabulary building, grammar, conversation, and introduction to German culture and civilization. Emphasis is on conversation. 3:0:3
- GE 102 Elementary German II**
This course continues the presentation of vocabulary and basic structural patterns began in Elementary German I with emphasis on comprehension, speaking, reading, and writing skills. Prerequisite: GE 101 or one year of high school German. 3:0:3
- GE 103 Elementary German I**
Areas covered in this course include: grammar, vocabulary building, conversation, comprehension and writing, with an introduction to German culture and civilization. Some lab required. 3:1:4
- GE 104 Elementary German II**
This course continues the development of speaking, comprehension, reading and writing skills and study of German culture and civilization begun in GE 103. Some lab required. Prerequisite: GE 103 or equivalent. 3:1:4
- GE 201 Intermediate German I**
Students work on building vocabulary and comprehension and increasing speaking ability. Everyday life situations and current events are discussed in class. A grammar review of GE 101 and GE 102 is also included. Prerequisite: GE 102 or two years of high school German. 3:0:3
- GE 202 Intermediate German II**
A continuation of GE 201. Vocabulary is put to added work in composition. Prerequisite: GE 201 or two and one half years of high school German. 3:0:3
- GE 310 Independent Readings in German**
Material and credit to be arranged with the instructor. May be repeated for up to six hours of credit with permission of the instructor. Prerequisite: GE 202 or three years of high school German. Variable credit: 1-3 hours.
- JP 101 Elementary Japanese I**
An introductory course with emphasis on pronunciation and the basic elements of grammar; practice in understanding, speaking, reading, and writing. 3:0:3
- JP 102 Elementary Japanese II**
The introduction of more complex elements of grammar; additional practice in understanding, speaking, reading, and writing. Prerequisite: JP 101 or equivalent. 3:0:3
- JP 103 Elementary Japanese I**
An introductory course with emphasis on pronunciation and the basic elements of grammar; practice in understanding, speaking, reading, and writing. Some lab required. 3:1:4
- JP 104 Elementary Japanese II**
The introduction of more complex elements of grammar; additional practice in understanding, speaking, reading, and writing. Some lab required. Prerequisite: JP 103 or equivalent. 3:1:4

- JP 201 Intermediate Japanese I**
Students work on building vocabulary and comprehension and increasing speaking ability. Everyday life situations and current events are discussed in class. A grammar review of JP 101 and JP 102 is also included.
Prerequisites: JP 101 and JP 102 or two years of high school Japanese.
3:0:3
- JP 201 Intermediate Japanese II**
A continuation of JP 201. Vocabulary is put to added work in composition.
Prerequisite: JP 101 or two and one half years of high school Japanese.
3:0:3
- JP 310 Independent Readings in Japanese**
Materials and credit to be arranged with the instructor. May be repeated for up to six hours of credit with permission of the instructor. Prerequisite: JP 202 or three years of high school Japanese. Variable credit: 1-3 hours.
- SP 101 Elementary Spanish I**
This course offers a basic introduction to the study of the language with a focus on grammatical structures in addition to oral and written skills. 3:0:3
- SP 102 Elementary Spanish II**
This course continues the presentation of basic structural patterns and speaking skills began in SP 101, with increased emphasis on comprehension of the spoken language. Prerequisite: SP 101 or two years of high school Spanish. 3:0:3
- SP 103 Elementary Spanish I**
This course offers a broad introduction to the study of the language in it diverse contexts with a focus on grammar, and oral and written comprehension. Some lab required. 3:1:4
- SP 104 Elementary Spanish II**
This course introduces more complex elements of grammar and includes student-generated dialogues, short interviews and brief essays as a basis for the practices of speaking, comprehension, reading and writing skills. Some lab required. Prerequisite: SP 103 or equivalent. 3:1:4
- SP 201 Intermediate Spanish I**
In this course students review basic concepts of the language while expanding reading comprehension and writing skills. Readings focus on the study of Hispanic cultures. Prerequisite: SP 102 or three years of high school Spanish. 3:0:3
- SP 202 Intermediate Spanish II**
A continuation of the grammatical and cultural studies undertaken in SP 201. This course includes content-based projects in the target language.
Prerequisites: SP 201 or four years of high school Spanish. 3:0:3
- SP 203 Business Spanish I**
An intermediate level review of grammar through the study of business terminology and transactions. 3:0:3
- SP 204 Business Spanish II**
An advanced intermediate review of grammar through the study of business terminology and cultural interaction. 3:0:3

- SP 205** **Issues in International Business**
A study of global markets accompanied by interactive role-playing, case studies and problem-solving. 3:0:3
- SP 213** **Spanish for Health Care I**
An intermediate level review of grammar through the study of cultural skills and medical terminology when interacting with patients. 3:0:3
- SP 214** **Spanish for Health Care II**
An advanced intermediate level review of grammar through the study of cultural skills and medical terminology when interacting with patients. 3:0:3
- SP 215** **Cultural Issues in Medicine**
A study of issues in Health Care and on-site interactions with an emphasis on specific areas of interest to individual students. 3:0:3
- SP 223** **Spanish for Global Communication I**
An intermediate level review of grammar through a focus on Spanish-speaking communities in the U.S., Spain and Latin America. 3:0:3
- SP 224** **Spanish for Global Communication II**
An advanced intermediate review of grammar through a focus on Spanish-speaking communities in the United States, and in Spain and Spanish America. 3:0:3
- SP 225** **Topics in Global Communication**
A diverse series of readings about international topics with a focus on cultural knowledge and linguistic dynamics. 3:0:3
- SP 230** **Spanish for Educators**
A study of contemporary issues in Education that emphasizes skills important to classroom needs and communication with students, families, and colleagues. 3:0:3
- SP 294** **Intermediate Spanish Conversation**
The course consists of a variety of sources and topics for the improvement of oral language skills. Forums for conversation include individual presentations, pair presentations and groups discussion in Spanish based on readings, individual research, movies, plays and excursions. This course includes a review of advanced grammar concepts. Prerequisite: SP 202 or equivalent, four years of high school Spanish or instructor's permission. 3:0:3
- SP 295** **Intermediate Spanish Composition**
Writing in Spanish at the intermediate level, including a review of grammar. Short essays and other practical exercises in composition. Prerequisite: SP 202 or equivalent. 3:0:3
- SP 299** **The Minor Capstone Project**
An individual or joint research project that involves hands-on learning and a final oral presentation in English of the work undertaken. 3:0:3
- SP 301** **Advanced Spanish Conversation**
Strong emphasis on the practice of oral communication skills. Topics of discussion include contemporary issues, films, and plays. This course is taught in Spanish. Prerequisites: SP 294 and SP 295 or equivalent. 3:0:3

SP 302

Advanced Grammar and Composition

Writing Spanish, at the advanced level, with attention to the elements of style and grammar. Study and criticism of a variety of textual examples. Basic techniques of literary interpretation, which will find application in short and long composition. This course is taught in Spanish.
Prerequisites: SP 294 and SP 295. 3:0:3

SP 310

Independent Readings in Spanish

Material and credit to be arranged with the instructor. May be repeated for up to six hours of credit with permission of the instructor. Prerequisite: SP 202 or four years of high school Spanish or instructor's permission.
Variable credit: 1-3 hours.

SP 311

Culture and Civilization of Spain

Further development of written and spoken Spanish through the study of the culture and civilization of Spain. This course is taught in Spanish.
Prerequisites: SP 294 and SP 295 or equivalent. 3:0:3

SP 312

Cultures and Civilization of Spanish America and the Hispanic Caribbean (MLL)

Taught in English, this course examines aspects of the history and cultures of Spanish America and the Hispanic Caribbean from pre-Columbian to contemporary times. Topics covered include: indigenous civilizations, the Spanish Conquest and occupation, the legacies of empire, dilemmas of national development, the changing roles of women, military dictatorships, and the "disappeared," contemporary Indian cultures and social realities, the narcotic industry, "third-world" debt and issues of national sovereignty.
3:0:3

SP 394

Introduction to the Literature of Spain

Presents key works of Spanish literature, from the Middle Ages to contemporary times. The selection of texts is designed not only to introduce major writers, but also to seek further insights into the Spanish culture. This course is taught in Spanish. Prerequisites: SP 301, SP 302 or equivalent, or permission of instructor. 3:0:3

SP 395

Introduction to the Literatures of Spanish America

Taught in Spanish, this course examines the history and cultures of Spanish America from pre-Columbian to contemporary times. Prerequisites: SP 294 and SP 295 or equivalent. 3:0:3.

SP 399

The Major Capstone Project

An individual or joint research project that involves hands-on learning with a written report in Spanish and a final oral presentation in English of the work undertaken. 3:0:3

MR-MEDICAL RECORDS (SS)

MR 205

Medical Terminology I

Basic vocabulary of medical terms, stressing prefixes, suffixes, and roots with application to each system of the body. 3:0:3

- MR 206** **Medical Terminology II**
Review of prefixes, suffixes and anatomical roots for each system of the body. Basic vocabulary of terms for diseases, operations, tumors, signs, symptoms, laboratory tests, and diagnostic procedures for each system of the body. Prerequisite: MR 205 or equivalent. 3:0:3
- MR 220** **Coding**
A study of the international medical nomenclature and classification systems for the comparison of disease data. Major topics include: characteristics of the nomenclature and classification systems and methods of quality control of coded information. 3:0:3
- MR 242** **Medical Records I**
Principles of medical record technology including the preparation, analysis, preservation, and retrieval of health information. The value of this information to the patient, the doctor, and the community will be stressed. 3:0:3
- MR 243** **Medical Records II**
Medical records in a variety of health care facilities, release of information, medical staff organization, and requirements and survey procedures of licensing and accrediting agencies. Medicare law and other federal regulations will be presented. Students will be introduced to the basic principles of supervising and managing a medical records department. Prerequisite: MR 242 or equivalent. 3:0:3

MU-MUSIC (H)

- MU 105** **Ensemble**
The study and performance of music for instrumental or vocal groupings. May be repeated for credit. 1:0:1
- MU 110** **Class Voice**
Group instruction of tone production, diction, breathing, and the basic techniques of singing. 2:0:1
- MU 115** **Computer Music Editing**
An introduction to computer assisted production of printing music using Finale. Open to all students. 1:2:1
- MU 160** **Introduction to Music Theory**
A study of the fundamentals of harmony and basic elements of sight-singing, melodic dictation, rhythmic dictation, keyboard, timbre, texture, and form used both in aural and visual analysis. Course has a required laboratory session. 3:2:4
- MU 161** **Music Theory**
A continuation of the fundamentals of harmony and basic elements of sight-singing, melodic dictation, rhythmic dictation, keyboard, timbre, texture, and form used both in aural and visual analysis. Course has a required laboratory session. Prerequisite: MU 160. 3:2:4
- MU 191, 291,
391, and 491** **Applied Music A**
One-half-hour individual lessons are currently offered in voice, piano, and classical guitar. (Instruction in other instruments may be made available as

demand and availability of instructors dictate.) Music minors electing any of these courses might be required to perform a recital during the semester. (First digit in course number refers to level of proficiency). May be repeated for credit. 1/2:5:1

**MU 192, 292,
392, and 492**

Applied Music B

One-half-hour individual lessons are currently offered in voice, piano, and classical guitar. (Instruction in other instruments may be made available as demand and availability of instructors dictate.) Music minors electing any of these courses might be required to perform a recital during the semester. (First digit in course number refers to level of proficiency). May be repeated for credit. 1:10:2

MU 205

Music Appreciation (GE)

A course designed to acquaint the student with the basic materials and history of music. Emphasis is on aural analysis and attendance at live performance. 3:0:3

MU 208

Explorations in Music

Introductory study of music as it relates to popular culture and other areas of contemporary interest. May be repeated for credit when topics change. 3:0:3

MU 210

Music and Society (GE)

A study of the role that music and musicians have played voluntarily or otherwise in politics, religion and social issues. Specific works ranging from instrumental music through opera, liturgical music, musical theatre and popular music are discussed. 3:0:3

MU 215

University Choir

Membership is open to non-majors as well as majors. Personnel is chosen by audition. May be repeated for credit. Prerequisite: Instructor's approval. 3:2:1

MU 240

Advanced Music Theory I

A continuation of MU 160 and MU 161, with a further study and analysis of modulation, altered chords, modes, chromaticism, and devices used in contemporary music. Studies will be applied to written, aural, and keyboard skills. Course has a required laboratory session. Prerequisites: MU 160 and MU 161. 3:2:4

MU 241

Advanced Music Theory II

A continuation of MU 240, with a further study and analysis of modulation, altered chords, modes, chromaticism, and devices used in contemporary music. Further studies will be applied to written, aural, and keyboard skills. Course has a required laboratory session. Prerequisite: MU 240. 3:2:4.

MU 260

Introduction to Music I (GE)

A comprehensive survey of Western music from its known beginnings to the present. 3:0:3

MU 261

Introduction to Music II: Music of the World (GE)

An introductory study of the music of non-Western cultures. 3:0:3

MU 331

Diction for Singers

A study of Lyric Italian, German, French, and English diction employing the International Phonetic Alphabet. 3:0:3

- MU 341 Choral Conducting**
An introduction to the fundamentals of conducting techniques, rehearsal methods, and choral music scores. Prerequisite: instructor's approval. 3:0:3
- MU 345 Music History: Medieval, Renaissance and Baroque (LL)**
An introduction to the music literature from ancient times to 1750. 3:0:3
- MU 346 Music History: Classic, Romantic and Modern (LL)**
An introduction to the music literature from 1750 to the present. 3:0:3
- MU 359 Folk Music in America (MLL)**
Introductory study of music as it relates to popular culture and other areas of contemporary interest. This topic is designed to familiarize the student with the legacy of American folk music. This course is designed to provide understanding of the theoretical principles used in American folk music, as they apply to its performance and its effect on society. 3:0:3
- MU 365 Orchestration**
A study of the orchestral instrument families with exercises in writing scores for instrumental ensembles. Emphasis is placed upon full orchestra with secondary attention given to small ensembles and the special need of school and civic performing groups. Prerequisite: MU 241 or instructor's approval. 3:0:3
- MU 372 Voice Methods**
A study of voice production, teaching methods, and repertoire for the various voice classifications. 3:0:3
- MU 373 Piano Methods**
A study of the teaching materials and methods for the beginner through college level. 3:0:3
- MU 374 Directed Study (for all other pedagogy needs)**
- MU 415 Independent Study in Music**
This course offers the student minoring in music the opportunity to research a focused topic in music, to compose a significant musical work, or to perform a significant work or set of works. The final product will be a fully developed research paper, a finished original musical score, or a significant musical performance. Prerequisite: permission of department chair. 3:0:3
- MU 465 Counterpoint**
A study of 18th century counterpoint with emphasis on its influence on polyphonic writing of the 20th century. Prerequisite: MU 241. 3:0:3
- MU 470 Forms and Analysis**
A study of standard musical forms in music from the common practice period to the present. Prerequisite: MU 241. 3:0:3

NS-NATURAL AND LIFE SCIENCES (NS)

- NS 215** **Selected Topics in Math/Natural Sciences**
 An in-depth examination of specific areas of mathematics and natural sciences. May be repeated once for credit with a change in topic. Variable credit: 1-3 hours.
- NS 218** **Foundations of Science**
 A study of the interdependent development of science and culture including the philosophical and technological effects on society. 3:0:3
- NS 241** **Cultural and Historical Aspects of the Scientific Endeavor (MGE)**
 A history of science is presented in terms of the multicultural aspects of our scientific heritage. Focus is upon the nature of scientific inquiry and the social factors affecting the participation of diverse groups of individuals in the advancement of science. 3:0:3
- NS 304** **Science, Technology, and Society (MLL)**
 Relationship between science, technology, and society. Topics include: the two cultures, the relationship between basic science and technology, the effects of technology upon society, and possible future technologies. 3:0:3
- NS 306** **Ethical Practices in Science**
 The social and ethical implications of scientific advancement will be presented to encourage the free exchange of ideas, with an emphasis on the role scientists and health professionals should play. Topics are selected from current social and ethical issues in chemistry, biology, ecology, physics, and health care. 1:0:1
- NS 315** **Special Topics in Math/Natural Sciences**
 An in-depth examination of specific areas of mathematics or the natural sciences. May be repeated once for credit with a change in topic. Variable credit: 1-3 hours.
- NS 319** **International Health Issues (MLL)**
 This course is designed to acquaint the student with health issues including the social, behavioral, and environmental influences on health and the delivery of health care in the United States and other countries. The concepts of health and illness will be explored from a multicultural viewpoint along with a variety of strategies for the promotion and protection of health, the prevention of disease, and the treatment modalities such as herbal medicine, therapeutic touch, acupuncture, etc. Current global issues will be discussed. 3:0:3
- NS 401** **Natural Science Colloquium**
 A regularly scheduled colloquium based on formal presentations of students, faculty, and guests. The presentations are based upon current periodical literature, and the presentation of an abstract and bibliography is required. Required of all senior students within the school as designated by the department. May be repeated for credit. 0:2:1.

NU-NURSING (NS)

- NU 200** **Nursing Transitions**
Seminar/discussion course to introduce and orient the participant to the nursing program. Exploration of nursing history, nursing theory including nursing process, introduction to communication and teaching/learning theory are included in the course topics. Principles and application of pharmacology will be emphasized. 3:0:3
- NU 210** **Adult Health Nursing I**
Enhances basic medical surgical knowledge of health promotion and alterations in fluid and electrolyte balance, respiratory, cardiovascular, gastrointestinal, hepatic, and urinary systems and surgical client care with an emphasis on evidence based nursing practice. Prerequisite: NU 200. Concurrent with NU 220, NU 238, and NU 235. 3:0:3.
- NU 220** **Adult Health Nursing II**
Enhances basic medical surgical knowledge of health promotion and alterations in Integumentary, musculoskeletal, neurological, endocrine, stress, immune, sensory or reproductive systems with an emphasis on evidence based nursing practice. Prerequisite: NU 200. Concurrent with NU 210, NU 238, and NU 235. 3:0:3
- NU 235** **Clinical Adult Health Nursing**
Application of the nursing process in a variety of clinical settings with emphasis placed on safe patient care, teaching / learning, pharmacology, communication, critical thinking and health promotion. Prerequisite: NU 200. Concurrent with NU 210 and NU 220 and NU 238. 0:10:5
- NU 238** **Nursing Health Assessment**
Application of the nursing process as it relates to the health assessment of normal and abnormal assessment findings across the life span. The use of nursing history, interview techniques and assessment techniques are emphasized in relationship to the adult (including geriatric population), pediatric population and pregnant population. Prerequisite: NU 200. Concurrent with NU 210, NU 220 and NU 235. 3:0:3
- NU 240** **Maternal/Child Health Nursing**
An exploration of health care issues, health promotion, growth and development, and management of disease processes related to women, infants, children, and families based on evidence based nursing practice. Prerequisite: NU 210, NU 220, NU 235 and NU 238. Concurrent with NU 255, NU 260 and NU 275. 3:0:3
- NU 255** **Mental Health Nursing**
An exploration of health care issues, health promotion, growth and development across the life span, and management of disease processes related to the mental health client population. Emphasis is placed on evidence based nursing practice with a focus on communication processes, relationship of biochemistry and genetics to mental health diagnosis and treatment, pharmacologic and group approaches to treatment, and development of therapeutic relationships. Prerequisites: NU 200, NU 210, NU 220, NU 235, NU 238. Concurrent with NU 240, NU 265, and NU 275. 3:0:3

- NU 265 Clinical Nursing Practice Applications**
Application of the Nursing Process in a variety of clinical settings with emphasis placed on health promotion, growth and development, management of disease processes across the life span, and nursing leadership and management based on evidence based nursing practice. Prerequisites: NU 200, NU 210, NU 220, NU 235, NU 238 Concurrent with NU 240, NU 255, and NU 275. 0:10:5
- NU 270 Selected Topics in Nursing**
Specialized study in contemporary topics related to transition to the role of the ADN professional nurse in the changing health care system. Emphasis will be placed on personal and professional development. Prerequisites: NU 210, NU 220 and NU 230 or permission of the instructor. May be repeated once for credit with change in topic. 3:0:3
- NU 275 Management and Issues in Nursing**
Exploration into nursing management and issues. Emphasis will be placed on nursing leadership, health care systems, health care financing and legal and ethical issues prevalent to nursing practice and patient care. Prerequisites: NU 200, NU 210, NU 220, NU 238, NU 235. Concurrent: NU 240, NU 255 and NU 265. 3.0:3

PC-PEACE STUDIES (H)

- PC 200 Introduction to Peace Studies (GE)**
A survey course designed to provide a general overview of the interdisciplinary issues presented in peace studies programs today and the history of academic peace studies. Examines the causes of war and the variety of approaches to peacemaking. Explores in depth pacifism and nonviolence, the just war theory, crusade mentality and peace through strength. The diversity of the peace movement from 1945 to the present is given major attention. 3:0:3
- PC 300 Nations At War: People of Peace (LL)**
A contemporary and historical study of 28 specific current international conflicts. It shares the perspectives and strategies of 28 peacemakers and peacemaking organizations. Analyzes the political, economic, and cultural factors causing international conflict and students imagine concrete alternatives for peace building that maximizes justice. 3:0:3
- PC 315 Global Peace Issues (LL)**
An examination of various issues in maintaining global security in the new world order. It is a symposium approach focusing on six strategies: A Democratic and Effective United Nations, Global Justice Structures, Systems to Avoid War and Promote Peace, Sustainable Human Development, Environmental Protection, Consensus Building and Action, and Funding for Global Governance. 3:0:3
- PC 320 The Practice of Peacemaking (LL)**
A course in the theory and practice of nonviolence. Brief attention is given to violent approaches to peacemaking, such as peace through imperialism and militarism. Practical skills and activities that promote peace and justice at the local and global levels are presented, analyzed, critiqued, and skill practiced. 3:0:3

PC 321 (CA 321) Interpersonal Conflict Resolution (LL)
Presents various strategies for dealing with conflict in a positive manner. Emphasizes the development and practice of skills of listening, assertiveness, problem solving, conflict management, and mediation. 3:0:3

PC 385 The History of Peace (LL)
A study of the quest for peace and the partnership way of human community from pre-history to the present. The approaches to peace from as many cultures and academic disciplines as possible are pursued, acknowledged, and evaluated. The lessons from the dominant paradigm of social organization and the history of war are used to clarify the proposition that an equally valid history of peace exists. 3:0:3

PE-PHYSICAL EDUCATION (NS)

- PE 101 Physical Fitness**
An exploration of the body's need to function physiologically. Students will develop and implement a personal program of fitness. 0:2:1
- PE 102 Beginning Swimming**
This course is designed to teach the beginner to swim. 0:2:1
- PE 103 Beginning Tennis**
An introduction to playing tennis. This includes backhand stroke, forehand, volley and serve. 0:2:1
- PE 106 Beginning Golf**
An exploration of the necessities of playing golf is the emphasis of this course. 0:2:1
- PE 107 Dance**
An exploration of rhythmic body expression. 0:2:1
- PE 108 Jogging**
A study of the regiments and the body's responses to a jogging program. The course includes, but is not limited to, implementation of a personal jogging program, equipment and safety measures. 0:2:1
- PE 109 Weight Training**
An examination and implementation of weight training. Maximum benefits and body adaptation will be presented, and the safety features will be explained and implemented. 0:2:1
- PE 110 Karate**
This courses offers an introduction to the martial arts of karate. 0:2:1
- PE 119 Individual Sport Topics**
There are several sports being offered under this topic. The common content is that students determine success for themselves. May be repeated for different sports. 0:2:1
- PE 120 Team Sport Topics**
The sports requiring cooperation between team members are taught under this heading. May be repeated for different sports. 0:2:1

- PE 302** **Advanced Lifesaving**
An in-depth survey of the techniques of water rescue. 1:2:2
- PE 304** **Special Topics in Physical Education**
An in-depth examination of specific areas in the field of physical education. Topics include, but are not limited to: psychology of coaching, exercise physiology and sports officiation. This course does not fulfill the physical activity requirement. 2:0:2
- PE 402** **Water Safety Instruction**
Mastery of all techniques in teaching swimming, advanced swimming and all levels of lifesaving. Prerequisite: PE 302. 1:2:2

PH-PHILOSOPHY (H)

- PH 101** **Introduction to Philosophical Thinking (GE)**
An entry into philosophy by one of two routes: an exploration of philosophical problems through reading and discussing selections from the great thinkers or a lecture-discussion survey of philosophy conceived in the broadest fashion. 3:0:3
- PH 201** **Choosing and Using Values (GE)**
A look at different proposals people have made about what things have the most worth and how human beings ought to live, together with an attempt to see how these proposals might work out if put into practice today. An introduction to philosophical ethics. 3:0:3
- PH 205** **The Meaning of Life (GE)**
Students in this course participate in the quest for meaning in life through reading and discussion of the contributions of philosophers, religious prophets, poets and writers, and through talking with persons who seem to have achieved meaning in their own lives. Students are expected by the end of the course to have formulated in writing or some other medium a statement of where they are in their personal quests. 3:0:3
- PH 211** **Fundamentals of Logic (GE)**
Principles of sound reasoning. Topics include: analysis of propaganda and sources of prejudice, fallacies in reasoning and speech; the logic of the syllogism with techniques for testing validity; and the basic apparatus of symbolic logic. 3:0:3
- PH 217** **Ancient and Medieval Philosophy (MGE)**
A survey of the central figures of classical and medieval philosophy, including the early Greek thinkers, Socrates, Plato, Aristotle, Augustine, and Aquinas. Their contributions to the development of science, religious thought, and social and political theory are studied. 3:0:3
- PH 220**
(PO 220) **History of Political Philosophy (GE)**
An analysis of political philosophy in its historical perspective, with a special examination of the influences of political philosophy on political institutions and on the development of political science. 3:0:3
- PH 221** **Ethics and Society**
Applies the insights of philosophical ethics to value questions that require public decision. Content of the course description will vary according to

the choice of the instructor utilizing topics such as abortion, capital punishment, euthanasia, use of natural resources, nuclear concern or censorship. 3:0:3

- PH 223 Modern Philosophy (MGE)**
A survey of select figures in 16th-18th century European philosophy (e.g., Descartes, Spinoza, Leibniz, Hobbes, Locke, Berkeley, Hume, Kant) and how they have shaped modern scientific, religious, ethical and political thought. 3:0:3
- PH 250 Selected Topics in Philosophy**
An in-depth examination of specific areas in philosophy not otherwise available in the department. May be repeated once for credit with change of topics. 3:0:3
- PH 301 Seminar: Exploration in Philosophy**
Selected topics as announced. May be repeated for credit with permission of the department. 3:0:3
- PH 302 Ethical Issues in Public Policy (LL)**
Considers several controversial questions regarding values which require public decision, such as abortion, capital punishment, and discrimination based on sexual preference. The insights of philosophical ethics are then applied to each—for example, how a utilitarian, formalist, or existentialist might handle each issue. 3:0:3
- PH 303 Philosophy of Science**
An examination of the philosophical assumptions of both the natural and the social sciences. Topics include: the distinction between science and non-science; the nature and types of scientific explanation; the structure and function of scientific laws and theories; the problems and paradoxes of confirmation and disconfirmation; the role of mathematics and models of science; the basis for probability and induction; and the relationship between science and values. 3:0:3
- PH 305 Great Ideas (LL)**
An approach to Western philosophical thought which emphasizes the creative ideas which have made our culture what it is. Examines ideas at their point of origin, then investigates their modern application. 3:0:3
- PH 307 Analytical Thinking**
This logic course proceeds in two steps: First, the student is taught a basic pattern for constructing and analyzing arguments. This learning is facilitated by working a number of examples. Second, the discussion proceeds to variations upon this basic pattern which are found in specific areas of argumentation: art, business, law, politics, philosophy, etc. The overall goal is to increase the student's skill in detecting, analyzing, and constructing arguments. 3:0:3
- PH 308 Business Ethics (MLL)**
An inquiry into the role of ethics in business situations. Topics considered include: the justice of various economic systems, corporate rate responsibility, conflict of interest, government regulation versus self-regulation, the ethics of investment, responsible advertising, discrimination, affirmative action, and sexual harassment. Emphasis is put upon the application of ethical theory to specific cases with attention to the sometimes conflicting demands of profit maximization and societal well-being. 3:0:3

- PH 310** **Independent Study in Philosophy**
An opportunity for students to pursue a special interest not covered by regular course offerings. Material and credit arranged in consultation with instructor. May be repeated for credit with permission of department. Variable credit: 1-3 hours.
- PH 311** **The History of Ideas**
An examination of the following topics seeks to provide a historical framework for thinking about the major questions of mankind: What is the origin and nature of the universe and humanity? Does God exist and if so, what does God require of us? What can we know and how? 3:0:3
- PH 316** **Philosophy and Skepticism (MLL)**
An approach to Western philosophical thought by examining the use, meaning and tradition of skepticism within the philosophical tradition. Beginning with the Greeks and then focusing on the radical skepticism of the Hellenistic period, attention will be paid to how skepticism has shaped Western philosophical thought through figures such as Sextus Empiricus, Montaigne, Descartes, Hume, and selected contemporary thinkers. Particular attention will be paid to skepticism in ethics, politics, religion, literature, and scientific inquiry. 3:0:3
- PH 319** **Philosophy of Religion**
Fundamental questions about religion are considered. Does God exist? If so, what is God's nature? Of what significance is mysticism? What happens (if anything) at death? 3:0:3
- PH 321** **Eastern Philosophy (MLL)**
An introduction to the philosophical traditions of India, China, and Japan. Topics include: (1) the development of the Upanishads and the orthodox Hindu schools and the emergence of Buddhist philosophy as a challenge to Hinduism; (2) the development and interaction of Confucianism and Daoism (and later, Buddhism) in Chinese history and culture; and (3) the transmission, development and transformation of Chinese philosophical schools in Japan. 3:0:3
- PH 350** **Special Topics in Philosophy**
This course deals with various topics in philosophy, especially those which involve interdisciplinary studies or studies concerning contemporary issues in culture and society. May be repeated for credit with change in topic. 3:0:3

PK-PARK BASIC SKILLS

- PK 103** **College Reading Improvement**
A course for the student who needs individualized instruction to improve reading comprehension and vocabulary skills. The course will include instruction in basic study skills, note taking and test taking. VA benefits might not be available for this course. 3:0:3
- PK 107** **Mathematics in Review**
A developmental course for the student who needs review and further practice in the basic arithmetic operation needed in pre-algebra and algebra, including calculations involving whole numbers, fractions, and decimals. Elementary geometry and problem-solving techniques will also be covered. VA benefits might not be available for this course. 3:0:3

- PK 110** **Introduction to College Study Skills**
Provides students with strengthening skills necessary for success in college classes. Emphasizes basic communication skills. Students will learn to read textbooks and library materials, listen to lectures, write examinations, speak in class discussions, and give oral reports. VA benefits might not be available for this course. 3:0:3
- PK 112** **Effective Writing Skills**
This course is intended to help students improve their skills in writing correct sentences, paragraphs, and short essays. Other concerns of the course are vocabulary building, correct usage and improvement of writing skills. (This course is not available to students who have successfully completed a college level writing course or who have otherwise satisfied the Prerequisite of EN 105). VA benefits might not be available for this course. 3:0:3
- PK 115** **Basic Skills Writing I**
This course may only be taken in conjunction with EN 105 and is designed to help students improve their writing skills. A writing sample of each student is assessed on entry according to the writing process. Individual portfolio assessment will be used to monitor progress. 3:0:3
- PK 116** **Basic Skills Writing II**
This course may only be taken in conjunction with EN 106 and is designed to help students become proficient in using the library for research and then in writing research papers. Individual portfolio assessment will be used to monitor progress. 3:0:3
- PK 117** **Principles of Composition in Review**
An individualized program designed for students who need additional practice in composition skills in preparation for writing competency examination. VA benefits might not be available for this course. 3:0:3
- PK 118** **Contemporary Mathematics and Pre-Algebra**
A developmental course for the student who needs instruction and practice performing calculations and solving equations. Topics include basis calculations using percentages, real numbers, geometry and other skills needed to succeed in MA 131 and MA 120. VA benefits might not be available for this course. 3:0:3
- PK 119** **Self and Career Exploration**
This seven-week course is especially for the student who is unsure of what career or major to choose. Students learn through self-discovery exercises and various printed and computerized career resources. This course is geared toward teaching students to make thoughtful and more satisfying career/major choices. VA benefits might not be available for this course. 1:0:1
- PK 120** **Computer Keyboarding**
Designed to offer techniques and basic skills of typing, with emphasis upon formation of correct typewritten techniques, mastery of the keyboard, and performance of basic typing operations. Credit may be given when the student passes a comprehensive test and demonstrates ability to type at 35-40 wpm. This is a pass/fail course requiring students to demonstrate the skills listed by the end of the term. VA benefits might not be available for this course. 3:0:3

PK 308

Assertive Career Building

This seven-week course is designed for the junior or senior who is preparing to graduate and enter the world of work. Course topics include effective resume writing, interviewing and contact building. VA benefits might not be available for this course. 1:0:1

PO-POLITICAL SCIENCE (SS)

PO 100

American Politics and Citizenship (MGE)

An examination of the role of the citizen in the American political system on the local, state and national levels of government. The impact of urbanization, bureaucratization and technology will be emphasized with reference to their historical development and international dimensions. 3:0:3

PO 200

American National Government (GE)

A survey of the functions and processes of the three branches of American national government. The changing roles of the branches and their relationship to the public will be emphasized. 3:0:3

PO 201

State and Local Government

A critical survey of the major trends in state and local government in the United States, with special emphasis on the governmental practices of the State of Missouri and problems of municipal government in Kansas City. 3:0:3

PO 202

Introduction to Law (MGE)

Descriptions of American law, language and processes. Subjects include, but are not limited to: the purposes of law, civil law, criminal law, torts, contracts, family law, rights and liberties. 3:0:3

PO 210

Comparative Political Systems

Introduction to the concepts and approaches in the field of comparative politics and government. Included is the comparative analysis of political institutions, processes, and problems in selected countries. 3:0:3

PO 216

International Relations

An introduction to the study of international relations focusing on the interactions of post-World War II international systems, politics, and organizations. 3:0:3

PO 220
(PH 220)**History of Political Philosophy (GE)**

An analysis of political philosophy in its historical perspective, with a special examination of the influences of political philosophy on political institutions and on the development of political science. 3:0:3

PO 221

Political Ideologies

A study of the major ideologies and philosophies shaping the political thinking of our days. Democracy is the center of attention, but other ideologies are also examined. 3:0:3

PO 250

Special Topics in Fire Service Management

This course is designed specifically for the Bachelor of Public Administration/Fire Services Management program and includes such topics as: fire investigation, fire administration, fire inspection, building and fire codes, environmental laws, regulations, and environmental management,

marketing and public relations, applied environmental laws and regulations, and hazardous materials management and planning. May be repeated up to a total of 12 hours (permission of department chair required). 3:0:3

- PO 302 Legal Analysis**
An introduction to the theory, method and actual process of legal reasoning. Particular attention is paid to identifying legal principles which underlie statutes and judicial precedents; understanding their logical basis and assessing their substantive significance; and applying them analytically and creatively in various factual contexts. This course will satisfy the EN 306 requirement for Legal Studies majors. Prerequisites: EN 105, EN 106, passing the WCT and 60 accumulated hours. 3:0:3
- PO 303 Legal History**
A survey of the history of law, with emphasis on major historical periods and codifications. A major portion of the course deals with the development of the law in the United States. Special attention is paid to theories of law such as natural law, trends in today's law, and the relationship of law to government and society. 3:0:3
- PO 304 Constitutional Law**
A seminar-type study of the basic principles of American government and fundamental rights as interpreted by the Supreme Court. Briefs of selected cases are discussed. 3:0:3
- PO 310 Parties and Elections**
A study of the structure and uses of pressure groups, political parties and elections in the United States. The central concern of the course is the development of a realistic understanding of the political process. 3:0:3
- PO 320 American Foreign Policy**
Contemporary foreign relations policy of the United States. An analysis of the factors affecting American foreign policy is undertaken. The governmental institutions concerned with development and execution of foreign policy are examined. 3:0:3
- PO 329 Law School and LSAT Preparation**
This course is a requirement for Legal Studies majors and minors. It will provide students with a means to prepare themselves for the rigors of law school. It will present students with strategies for getting into the law school of their choice. A significant amount of time will be spent on developing a personal statement that will improve their chances in the competition for scarce positions in law schools. It will also spend a good deal of time helping students to prepare for taking the Law School Admissions Test. Readings on the law school experience, presentations from those who have been to law school, significant work on a personal statement usually required for law school applications, and intense preparation for the LSAT will be the methodologies employed. 3:0:3
- PO 330 Public Administration (LL)**
Principles and problems of public administration in America. Special attention is given to the problems of democratic control and the development of basic concepts of the field. 3:0:3
- PO 331 Public Organizations**
A study dealing with public organization design and the impact public organizations have upon those who work in them or deal with them. Topics

include: public organization information and control systems, decision making in public organizations, the environment of public organizations, organizational behavior, and innovation in public organizations. 3:0:3

- PO 332 Public Budget and Finance**
An analysis of public budgeting at the national, state and local levels of government, including the relationship of the federal budget to fiscal policy. The politics of the budgetary process are examined as well as various types of budgets. The influence of intergovernmental transfer payments is also reviewed. 3:0:3
- PO 333 Public Management and Leadership**
The study of managerial functions, processes, ethics and practices in public organizations. Topics may include: goals, objectives, policies, organizational structures, and decision-making theory and practice in public organizations. 3:0:3
- PO 334 Public Personnel Administration**
Analysis of the various functions of public personnel administration including: recruitment, placement, training, salary, evaluation, retirement, personnel problems, labor relations, collective bargaining, ethics, merit systems, and EEO programs. 3:0:3
- PO 335 Administrative Politics**
Examines the skills involved in interacting with the public, private groups, legislative bodies, advisory committees, political appointees, other administrative agencies, and other levels of government. The ethical problems of such relationships are also considered. 3:0:3
- PO 336 The Media and Public Administration**
An analysis of the relationship between public administrators and the media from the standpoints of (a) the public relations efforts of administrators, and (b) the reporting of the media. 3:0:3
- PO 337 Administrative Law**
The study of administrative agencies, their rule making powers, adjudicatory functions and judicial control over such agencies. Areas covered include: the scope of administrative power, judicial review, regulatory law, due process, and personal liability of public servants. 3:0:3
- PO 340 Public Policy**
Policies and functions of American government with the emphasis on the policy problems confronting the United States and the process of policy making. 3:0:3
- PO 350 Special Topics in Politics**
In-depth examination of a selected issue in politics and government. 3:0:3
- PO 399 Scope and Methods of Political Science**
Concepts, models, theoretical frameworks and typologies in the study of politics will be emphasized. Also examined is the methodology used in cross-national research. 3:0:3
- PO 400 Senior Project in Political Science**
A semester course in which the student develops, with the close supervision of the instructor, a question for research and designs how that research will be carried out in the next semester. The student also develops a literature review. 3:0:3

- PO 403 Senior Project in Public Administration**
A capstone course for Public Administration students to reacquaint them with the totality of Public Administration. Students should be able to demonstrate a thorough integration of the courses taken and skills learned. Case studies and practical problems will be examined. 3:0:3
- PO 405 Senior Thesis**
The development of a thesis based upon the problem statement created in PO 400 and placed in the context of previous research and political theory. This course will satisfy the EN 306 requirement for Political Science majors. Prerequisites: EN 105, EN 106, passing the WCT and 60 accumulated hours. 3:0:3
- PO 428 Senior Seminar in Fire Service Management**
A comprehensive integration of the degree-oriented study of fire services management. Emphasis will be upon the interrelationship of management and the various fields within fire services. 3:0:3
- PO 430 Research in Public Administration**
Students undertake an independent study which coordinates the various aspects of public administration with scholarly writing. It is intended for students who will be seeking an advanced degree in public administration. Topics of research will address issues of relevance to the field of public administration and will be determined in consultation with the instructor. Prerequisite: permission of the instructor. This course will satisfy the EN 306 requirement for Public Administration majors. Prerequisites: EN 105, EN 106, passing the WCT and 60 accumulated hours. 3:0:3
- PO 440 Senior Project in Legal Studies**
An advanced course in legal studies focusing on the direct application of legal analysis and basic legal research. Students will utilize provided case materials, research the legal issues, prepare trial or appellate briefs, and present the case to either a jury through witnesses and evidence or to a judicial appellate panel through oral argument. Prerequisites: PO 302, PO 303 and PO 304. 3:0:3
- PO 450 Internship**
An internship in an actual work situation related to politics or public administration. Variable credit as recommended by faculty internship advisor. 3-12 hours.

PS-PSYCHOLOGY (SS)

- PS 101 Introduction to Psychology (MGE)**
A survey of the assumptions, history, methods, and techniques of psychology. A presentation of representative theory and research in the areas of consciousness, learning, motivation, cognition, personality, and social behavior. 3:0:3
- PS 121 Human Growth and Development**
A discussion of the physical, social and physiological changes occurring during the life of the individual from conception to death. Emphasis is placed on the similarities and differences of the various age groups and the specialized needs of each. 3:0:3

- PS 205
(ED 205)** **Child Psychology**
A study of biological, cognitive, and sociocultural development from the prenatal period through childhood. Attention will be given to theory and research, practical examples and policy implications. Prerequisite: PS 101. 3:0:3
- PS 206** **Introduction to Guidance and Counseling**
A survey of the guidance process, communication, functions of counseling, and various counseling theories. This course is designed to introduce students to the whole guidance process. Emphasis will be placed on an integrated approach to basic helping skills utilizing theory, practice, and case application. The course will provide students with the foundation to develop skills they need to establish effective helping relations. Suggested Prerequisite: PS 101 or equivalent. 3:0:3
- PS 221
(ED 221)** **Adolescent Psychology**
Developmental factors and problems common to the period from puberty to adulthood. Topics include: self-identity, sexuality, life-styles, parent-adolescent relationships, and conditions leading to optimal development. 3:0:3
- PS 222** **Adult Development and Aging (MGE)**
Focuses on the developmental tasks and psycho-social services during the adult years with special emphasis placed on the social psychology of aging. 3:0:3
- PS 301
(SO 301)** **Social Psychology (LL)**
Study of the effects of social variables on the individual, including areas of group dynamics, conformity, leadership, obedience, and interpersonal attraction. 3:0:3
- PS 302** **Tests and Measurements**
An introduction to the uses of psychological tests and to the techniques of test construction and evaluation. Topics include: a survey of common tests in the areas of general classification, differential testing of abilities and measurement of personality characteristics. Prerequisite: PS 101. 3:0:3
- PS 304
(BI 304)** **Ethology**
A study of the behavior patterns of animals. Ethological methods, neural and evolutionary mechanisms are stressed. Topics include sensory perception, motor programs, orientation, communication, sexual selection, and animal societies. A research paper or project is required. Prerequisites: BI 111 or PS 101 and consent of instructor. 3:0:3
- PS 305
(SO 305)** **Behavioral Research Methods**
An application of the scientific methods to social science with the focus on hypothesis formulation, research design, data collection, and data analysis. Replication of research studies or completion of research project, or both. Prerequisite: SO 141 or MA 120. 3:0:3.
- PS 306** **Experimental Psychology**
An introduction to the design and analysis of laboratory experiments and other research methods in psychology. Topics may include: cognitive, social, perceptual, clinical, developmental, and biological processes. Students conduct and evaluate experiments, may serve as subjects, and gain experiences in writing scientific research reports. This course will satisfy the EN 306 requirement for Psychology major. Prerequisites: EN 105, EN 106, PS 101, MA 120, passing the WCT and 60 accumulated hours. 3:0:3.

- PS 309** **Human Sexuality (LL)**
Survey of topics relating to human sexuality. The themes range from the biology of human reproduction to the sociology and psychology of human mating. Many controversial subjects are discussed, to encourage students to examine their own attitudes towards these subjects. 3:0:3
- PS 315** **Theories of Personality**
Examination of the major personality theories and contributing research evidence with particular emphasis upon motivation and dynamics of behavior. Prerequisite: PS 101. 3:0:3
- PS 317** **Psychology of Language**
Experimental study of language, including sentence comprehension and memory, language acquisition and development, speech perception, and effects of context, perception, reasoning, and linguistic structure on processing of language. Prerequisite: PS 101. 3:0:3
- PS 321**
(EDU 375) **Exceptional Children**
A course designed to study the varied educational, developmental, and behavioral characteristics of children with special intellectual, physical, emotional, or social needs. This course includes completion of out-of-class experiences such as visits to inclusion classrooms in area schools, home visits with families, and volunteering at a State School. Prerequisite: PS 101 or EDU 203. 3:0:3
- PS 361** **Cross-Cultural Psychology**
Emphasizing active learning, we will examine the sociocultural forces impacting human behavior. Specifically we will address the dynamics of culture as a psychological variable, the global perspective in psychology, theories of culture and behavior, cross-cultural research methods, cognition, language, culture and gender, socialization, cultural differences in social behavior, intergroup relations, organizational behavior across cultures, and culture and health. 3:0:3
- PS 374** **Organizational Psychology**
Study of the intrapersonal, interpersonal and group dynamics in organizational behavior, group problem solving, task functions and process functions, motivation and morale, models of organization and their psychosocial costs and benefits, including impact on the culture and the family. Prerequisite: PS 101. 3:0:3
- PS 388** **Learning and Motivation**
A survey of major theories and supporting research related to classical and operant conditioning, social learning, and motivational processes. Consideration of behavior modification and applications in solving clinical, motivational, educational, and societal problems. Prerequisite: PS 101. 3:0:3
- PS 390** **Selected Topics in Psychology**
Intensive study of an area of psychology selected by the instructor on the basis of student need or current issues. Prerequisite: PS 101 or permission of the instructor. Variable credit: 1-3 hours.
- PS 401** **Abnormal Psychology**
An introduction and investigation of the causes, development, symptomatology and treatment of abnormal behavior. Primary focus is an eclectic view of persons and their adaptation of their environment. Prerequisite: PS 101. 3:0:3

- PS 402** **Systems of Psychotherapy**
 Explores the major schools of psychotherapy. The course includes an extensive use of actual case studies. Prerequisites: PS 101, PS 401 or PS 315 and junior or senior standing. 3:0:3
- PS 403** **Special Problems in Psychology**
 A seminar in which special problems related to psychological theory or practice are discussed on the basis of extensive readings. Prerequisite: permission of the instructor. 3:0:3
- PS 404** **History and Systems of Psychology**
 Study of history of the philosophical and scientific bases of the evolution of modern psychology and a critical examination of the systems of structuralism, functionalism, behaviorism, Gestalt psychology, psychoanalytic, humanistic, and existential theories. Prerequisites: PS 101 and permission of the instructor. 3:0:3
- PS 405** **Independent Study in Psychology**
 Prerequisites: major in psychology, permission of the instructor, and junior or senior standing. May be taken for up to six hours. 3:0:3
- PS 407** **Field Placement in Psychology**
 Supervised field placement in an agency specifically concerned with application of psychology. Prerequisites: major in psychology, permission of the instructor, and junior or senior standing. Variable credit: 3-6 hours.
- PS 408** **Cognitive Psychology**
 Students are introduced to modern concepts in cognitive psychology. Human information processing, representation and organization of knowledge, and the uniqueness of higher cognitive skills are emphasized. Classroom demonstrations and experiments are used in exploring human learning and memory. Prerequisite: PS 101 or permission of the instructor. 3:0:3

PY-PHYSICS (NS)

- PY 130**
(GO 130) **Astronomy (MGE)**
 This course will study the complexities of the universe. It will examine the physical, chemical and meteorological, and geological aspects of the universe, including planets, suns, asteroids, and nebulae. 3:3:4
- PY 155** **Concepts of Physics I (MGE)**
 A non-calculus approach to physics designed to emphasize the concepts that are most important to students pursuing careers in the health sciences. Topics include: measurements, force and motion, statics, vectors, and wave theory as applied to heat, sound, and light. Laboratory includes appropriate experiments to illustrate concepts. 3:3:4
- PY 156** **Concepts of Physics II (MGE)**
 A continuation of PY 155. Topics include: electricity, magnetism, wave mechanics, lasers, x-rays and nuclear radiation. Laboratory includes experiments and demonstrations to illustrate and emphasize concepts. 3:3:4
- PY 205** **Introduction to Physics I**
 Lecture and laboratory introducing the calculus based physics. Topics include: introductory kinematics and Newtonian dynamics of both particles

and solid bodies, work and energy, momentum, and thermodynamics.
Prerequisites: MA 210. Co-requisite: MA 211. 4:3:5

PY 206**Introduction to Physics II**

A continuation of the calculus physics sequence. Topics include: wave motion, electromagnetic and acoustic waves, properties of waves, and electromagnetic theory. Prerequisite: PY 205. 4:3:5.

RE-RELIGION (H)
RE 103**Introduction to Religion (GE)**

A look at the different ways in which contemporary humanity views, studies, and evaluates the phenomenon of religion. Includes some consideration of the psychology and sociology of religion, religion and art, religion and ethics, the nature of religious thought, and whether religious affirmations (whether Christian or non-Christian) can bear up under the philosophical criticism. 3:0:3

RE 109**World Religions (MGE)**

An introduction to the religion of humankind from the earliest records of spiritual life to the great religions of today. The course recognizes the possibilities of dialogue among the living traditions around the world and the resources within the local community. 3:0:3

RE 215**Selected Topics in Religious Studies**

An in-depth examination of specific areas in religion not otherwise available in the department. May be repeated once for credit with change of topics. 3:0:3.

RE 223**Ancient Christianity (MGE)**

A critical exploration of the origination and development of Christianity within the larger historical, cultural, and religious setting of the ancient Graeco-Roman world. Particular attention is paid to how early Christians understood Jesus of Nazareth, organized and regulated their churches, and dealt with important religious and social concerns. Significant parts of the New Testament are studied with regard to these matters. 3:0:3

RE 224**Ancient Israel (MGE)**

A critical exploration of the origination and development of the Israelite people within the larger historical, cultural, and religious setting of the ancient Near Eastern world. Particular attention is paid to how early Hebrews understood Yahweh, the God of Israel; organized and regulated their community; and dealt with important religious and social concerns. Significant parts of the Hebrew Bible are studied with regard to these matters. 3:0:3

RE 300**Zen Meditation**

Perhaps the highest form of Buddhism, perhaps the highest form of meditation, Zen has evolved in Japan over the past 800 years. Zen meditation techniques and the Zen goal of enlightenment are applicable to the lives of Westerners and to people of different religious beliefs. Students meet with the instructor and meditate at least 20 minutes per day. Students wishing two hours credit will in addition read from the Zen masters. Variable credit: 1-2 hours.

- RE 303** **Life, Death and Hereafter (LL)**
 Consideration is given to philosophical, biblical, and literary perspectives on life, death, and what lies beyond death. The course also gives attention to such matters of contemporary concern as the denial of death, counseling, the dying and bereaved, the right to die, and funeral practices. 3:0:3
- RE 304** **Seminar: Explorations in Religion**
 Selected topics as announced. May be repeated for credit with permission of the department. 3:0:3
- RE 305** **Traditional Religions of Africa (MLL)**
 A multi-disciplinary study of traditional, non-Christian religions in sub-Saharan Africa with special emphasis on the religious system(s) of one or more peoples such as the Nuer, Dogon, Yoruba, or Dinka. Topics include: concepts of divinity (God, major and minor deities, and other supernatural powers); stories of world creation and structure; relationships between religious belief and social organization; views of the human being; life, death, and the hereafter; ghosts and ancestors; spirit possession and exorcism; divination, sorcery, magic, and witchcraft; and religious institutions, leaders, and rituals. 3:0:3
- RE 306** **Biblical Seminar**
 An in-depth study of a selected book or section of the Scriptures. Prerequisite: permission of the instructor. 3:0:3
- RE 307** **Religion in Today's World (LL)**
 Contemporary aspects of religious thought and practice considered in their relevance to other disciplines. The attempt is made to examine them from an integrated Christian theological perspective. Possible topics include: the charismatic movement, Jewish-Christian and Islamic-Christian relations, and current theological developments. 3:0:3
- RE 310** **Independent Study in Religion**
 An opportunity for students to pursue special interests not covered by regular course offerings. Material and credit arranged in consultation with instructor. May be repeated for credit with permission of department. Variable credit: 1-3 hours.
- RE 315** **Special Topics in Religious Studies**
 This course deals with various topics in religious studies, especially those which involve interdisciplinary studies or studies concerning contemporary issues in culture and society. May be repeated for credit with change in topic. 3:0:3
- RE 320** **Human Community: History, Ideology, Design (LL)**
 This course will look at a variety of communities throughout history, how people came together, in what configuration and for what purpose. The nature and character of human community will be discussed, including such concepts as city, neighborhood, stewardship, and relationship. Study may focus on early city planning, monastic communities, utopian/millennial ideals, and modern suburbia.
- RE 324** **The Hebrew Bible [Old Testament] (MLL)**
 An introduction to the Hebrew Bible, known to Christians as the Old Testament. The course will examine the historical, prophetic, liturgical and wisdom writings that comprise the Hebrew Bible, exploring each for its contribution to the larger narrative's presentation of God and humanity.

This course will include a particular focus on the development, content and historical and contemporary application of the texts in the Jewish, Christian, and Islamic traditions. 3:0:3

RE 325

The New Testament (MLL)

An introduction to the New Testament, a collection of writings assembled by the early Christian church as the second volume of scripture. The course will explore how, in gospels, historical narratives, and letters to faith communities, the New Testament tells the story of Jesus' life and death, and will examine its impact on the expanding community of those who believed Jesus to be the Christ. This course will examine the content, development and narrative unity of the New Testament, with particular focus on contemporary interpretations and understandings of the text. 3:0:3

RE 328

Supportive Therapies (LL)

Addressing itself to loneliness, stress and value-disorientation being experienced by many persons today, the course explores religious foundations and resources for providing support therapy. Attention is given to both models and methods. Work will include values clarification, improvement of communication skills, exploration of group dynamics, and establishment of helping relationships, with special focus upon singles, aging, families, and the bereaved. 3:0:3

SO-SOCIOLOGY (SS)

SO 141

Introduction to Sociology (GE)

An examination of the social processes and structures of society, with particular attention to American society. Reviews such topics as interpersonal interaction, culture, major social institutions, inequality, deviance, and social change. Also introduces methods used in sociological research. 3:0:3

SO 200
(CJ 200)**Criminology**

An examination of the nature and extent of crime and theories of crime causation, as well as the societal reaction of criminal behavior. 3:0:3

SO 208

Social Inequality

An analysis of patterns of social and economic inequality in American society as well as societies in other times and places. Examines theories of the causes of inequality, the consequences of inequality for individuals and society, and the patterns and causes of social mobility. 3:0:3

SO 212

Social Problems

A survey and analysis of phenomena such as poverty, criminality, population pressures, sexual deviance, drug addiction, and mental illness. In each case, consideration is given to causes of the problem, consequences for individuals and society, and questions of public policy related to the problem. 3:0:3

SO 301
(PS 301)**Social Psychology (LL)**

Study of the effects of social variables on the individual, including areas of group dynamics, conformity, leadership, obedience, and interpersonal attraction. 3:0:3

- SO 302 The Study of the Family (MLL)**
A study of the family as a social institution and a social group in terms of cross-cultural, historical, and contemporary perspectives. Current controversies concerning male-female roles, sexual morality, reproduction and other issues are considered. 3:0:3
- SO 303 Urban Sociology (LL)**
A study of the development of the city and of the social characteristics of urbanization, ecology, social processes, group relations, and selected urban problems. 3:0:3
- SO 305 Behavioral Research Methods**
(PS 305)
An application of the scientific methods to social science with the focus on hypothesis formulation, research design, data collection, and data analysis. Replication of research studies or completion of research project, or both. Prerequisite: SO 141 or MA 120. 3:0:3.
- SO 311 Conflict and Social Change**
Examination of the causal processes and functions of conflict and of the relationships of conflict to change. Analysis of theoretical perspectives and research findings concerning the forms of conflict, social movements, and collective behavior. Prerequisite: SO 141. 3:0:3
- SO 315 Minority Group Relations (LL)**
An examination of the patterns and causes of prejudice and discrimination. Surveys the history and current status of groups in American society which have been subjected to discrimination based on race, ethnicity, sex or religion. 3:0:3
- SO 335 Social Theory**
Surveys the historical development of sociological theory, examines the nature of social theory and theory construction, and reviews the principal contemporary perspectives and debates in the field of social theory. Prerequisite: SO 141. 3:0:3
- SO 390 Topics in Sociology**
Based each semester on a different subject area not otherwise available in the department. Recommended for any students desiring to broaden their knowledge base in the social sciences. Prerequisite: SO 141. 3:0:3
- SO 402 Independent Study in Sociology**
An opportunity for the student to pursue an individual area of interest by directed readings or research, or both. This is not a substitute for standard course offerings. Prerequisites: Major or minor in sociology or human services, permission of the instructor, and SO 141. 3:0:3
- SO 405 Senior Project in Sociology**
This course involves research on a selected sociological problem and preparation of a major paper in the style of a professional journal article in sociology. The paper will include a problem statement, review of relevant theory and research, and presentation of research findings and analysis. This course will satisfy the EN 306 requirement for Sociology majors. Prerequisites: EN 105, EN 106, passing the WCT and 60 accumulated hours. 3:0:3

SO 460

Individual or Group Research

Individual or group projects designed and executed by students under the supervision of a member of the department. The projects may be theoretical in nature or research projects designed and executed by students as a means of gaining insight into the problems of social research. May be taken in more than one semester. Limited to six hours. Majors only. Variable credit: 1-3 hours.

SO 490

Special Topics in Sociology

Based on a different subject area not otherwise available in the department. Recommended for those planning to go on to graduate school. Prerequisite: SO 141 3:0:3

SS-SOCIAL SCIENCE (SS)

SS 100

First-Year Seminars

Park University's First-Year Seminars are designed to offer incoming first-time freshmen or transfer students an opportunity to engage in a course structured around independent research, small group discussion, and intensive writing across disciplines. The thematic seminars function as a means of a uniform writing requirement, stressing the importance of written expression in all disciplines; as an attractive and exciting supplement to the usual introductory survey course in many disciplines; as an early experience in the scholarship that is the foundation to upper-level courses; as a means to strengthen core academic skills, including reading comprehension, oral expression, and writing; and as an introduction to university life, adjustment issues, and enhancement of skills for success in the university. Required for all incoming first-time freshmen. Highly encouraged for transfer students. 3:0:3

SS 215

Selected Topics in Social Science

An in-depth examination of specific areas of the social sciences. May be repeated once for credit with a change in topic. Variable credit: 1-3 hours.

SS 315

Special Topics in Social Science

An in-depth examination of specific areas of the social sciences. May be repeated once for credit with a change in topic. Variable credit: 1-3 hours.

SS 401

Social Sciences Colloquium

A seminar for juniors and seniors promoting understanding of selected contemporary problems from an inter-departmental perspective. Strongly recommended for all majors and minors within the division. May be repeated for credit. 1:0:1

SU-SURVEYING (NS)

SU 201

Introduction to Surveying

Course will cover principles and methods of surveying; handling of survey equipment during transit; field work to include foundation layouts, grade calculations, level circuits, and profiling; and compilation of field notes. Prerequisite: MA 141. 3:0:3.

SW-SOCIAL WORK (SS)

- SW 205** **Introduction to Social Work (MGE)**
 This course introduces students to the profession of social work and provides an overview of the professional knowledge, skills, and values necessary for generalist social work practice. The various settings for social work practice and the types of services provided by social workers are explored. 3:0:3
- SW 305** **Human Behavior in the Social Environment I**
 This course examines the interplay of biological, psychological, social and cultural factors which influence human behavior and human development through the life cycle. This course, which is the first in a sequence of two courses, focuses on the period of infancy to young adulthood. Attention is given to the impact of social and economic deprivation on human development. Prerequisite/Co-requisite: SW 205. 3:0:3
- SW 310** **Social Work Practice I: Individuals and Families**
 This course provides the foundation for beginning social work practice with individuals and their families. It focuses on the theories, knowledge, practice skills needed to engage in a problem solving process, and the ethical framework within which this process occurs. Prerequisite: Pre-Major in Social Work. Prerequisite/Co-requisite: SW 205. 3:0:3.
- SW 320** **Social Work Practice II: Groups**
 This course introduces knowledge and skills needed for beginning practice with groups. This includes exploration of the dynamics of group processes and the use of group interventions to address a wide range of human needs. Prerequisite: Social Work Pre-Major or Major and SW 305. 3:0:3
- SW 325** **Human Diversity and Social Justice (MLL)**
 This course provides a foundation of knowledge for more effective social work practice with a diversity of individuals and groups. It explores the background, world view and special needs of groups which vary in such respects as race and ethnicity, religion, gender, disability, sexual orientation, and age. It is recommended that SO 315 be taken prior to SW 325. 3:0:3
- SW 330** **Social Welfare Policy and Programs (MLL)**
 This course introduces students to the major social welfare policies and programs of the United States today, and it examines the historical circumstances which gave rise to those social welfare programs and the social work profession. Existing policies are critically examined, and attention is given to methods by which social policies might be influenced to better meet human needs and promote social justice. 3:0:3
- SW 335** **Social Work Research**
 This course introduces basic methods of social research, including various aspects of research design, data collection, analysis, and reporting of findings. It examines both qualitative and quantitative research methods, and explores the application of social research knowledge to critical assessment of published social work research and evaluation of social work interventions and programs. Prerequisite: MA 120. Co-requisite: SW 205. 3:0:3

- SW 405 Human Behavior and Social Environment II**
 This is the second sequential course which examines on the interplay of biological, psychological, social, and cultural factors which influence human behavior and human development through the life cycle. An understanding of these influences provides a foundation from which to better understand and work with a diversity of clients. This course focuses on the period of middle adulthood to old age. Prerequisites: Social Work Pre-major or Major and SW 305. 3:0:3
- SW 410 Social Work Practice III: Organizations and Communities**
 This course introduces students to knowledge and skills for social work practice with organizations and communities. This includes an introduction to organizational management, acquiring grants for program funding, strategies for organizational change, and the experience of working in an agency setting under supervision. Community practice includes an introduction to community change strategies and methods of advocacy. Prerequisites: SW 310 and Social Work Major. 3:0:3
- SW 420 Field Instruction I**
 This course provides an educationally-oriented practice experience in an agency setting under the supervision of an approved agency-based field instructor. It provides an opportunity for students to apply the knowledge, skills, and ethical principles presented in the classroom setting. Students must complete a minimum of 225 hours in the practicum setting. Prerequisites: SW 310, Social Work Major, and permission of the instructor. Concurrent enrollment in SW 421 required. 5 credits.
- SW 421 Field Instruction II**
 The aim of the seminar is to provide students an opportunity to resolve issues encountered in the Field Instruction through sharing and interaction with peers under the direction of the field instructor. Through analysis of their field experiences, students understanding and integration of previous classroom learning is enhanced. Prerequisites: SW 310, Social Work Major, and permission of the instructor. Co-requisite: SW 420. 1:0:1
- SW 430 Field Instruction II**
 As the second in a sequence of two supervised learning experiences in an agency setting, it is expected that the student will engage in more in-depth practice and learning, and will strengthen a sense of personal identity as a social work professional. Students must complete a minimum of 225 hours in the practicum setting. Prerequisites: SW 310, SW 420, SW 421, Social Work Major, and permission of the instructor. Concurrent enrollment in SW 431 required. 5 credits.
- SW 431 Field Instruction Seminar II**
 Integrates agency-based learning in the second Field Instruction placement with classroom-based learning. Prerequisites: SW 420, SW 421, Social Work Major, and permission of the instructor. Co-requisite: SW 430. 1:0:1

TH-THEATRE (HU)

- TH 100** **Introduction to Theatre (GE)**
A survey of all the elements (critical, historic, practical, artistic) contributing to the making of theatre presentations. 3:0:3
- TH 101** **Basic Principles of Acting (GE)**
A practical exploration of the basic principles of acting and its application to all forms of expression. Open to all students. 1:2:3
- TH 105** **Oral Communication (MGE)**
A study of the basic skills in breathing, vocal control, diction, and articulation as applied to the public presentation of the following literary forms: poetry, prose, drama, reader's theatre and choral reading. Selections used as performance options include authors from a wide variety of ethnic and national origins. Open to all students. 1:2:3
- TH 110** **Freshman Theatre Practicum**
A practical apprenticeship in the techniques of the theatre: participation in crew work and acting in theatre productions. Prerequisite: permission of department chair. Variable credit: 1-3 hours.
- TH 115** **Technical Theatre Production**
Theory and practice of the technical elements involved in theatrical presentation: stagecraft, lighting, sound, costume, and make-up. Special emphasis is given to the practical needs of teachers and religious and community theatre enthusiasts. Open to all students. 3:0:3
- TH 210** **Sophomore Theatre Practicum**
Practical experience in the techniques of theatre: participation in crew work and acting in theatre productions. Prerequisite: permission of department chair. Variable credit: 1-3 hours.
- TH 216** **Directing I**
A study of the function of the director and basic theories of composition, picturization, and movement. Development of practical skills as directors through classroom discussion and the direction of scenes. Assembly of a complete director's script for a final project. Open to all students. 1:2:3
- TH 217** **Design I**
Introduction to the theory and practice of scenic and lighting design. Open to all students. 1:2:3
- TH 301** **Acting Workshop I**
Concentrated application of the craft and techniques of acting. Emphasis is on concentration, character study and motivation, and the strengthening of ensemble interaction between actors as characters through improvisation exercises and rehearsal and performance of partnered scenes. 1:2:3
- TH 302** **Creative Drama (MLL)**
Theory and practice of the use of creative drama as an alternative teaching/learning tool and as a support technique in working with diverse-needs populations and age groups-such as drama in education for curricular and language skill enhancement; drama as self-esteem, social

interaction, and coordination building tools; and drama in therapy. Includes off-campus workshop opportunities in area schools. Especially recommended for Education, Communications, Psychology, and Social Work majors and recreation leaders. 1:2:3

- TH 305 *Acting Workshop II: Dialects, Accents and Professional Auditioning***
 A semester of intensive monologue training in which the first half is devoted to ear training in a variety of regional American dialects and foreign accents and class performances of monologues that utilize those dialects and accents. The second half focuses on professional audition expectations and the preparation and public performance of two contrasting monologues suitable for a professional theatrical audition. Open to all students. 1:2:3
- TH 306 *Acting Beyond Prejudice (MLL)***
 An acting course designed to specifically address issues of prejudice and discrimination through dialogue, improvisation, and script-building, ultimately culminating in several on-campus performances that will be open to the public, with the additional possibility of off-campus touring performances to local schools. Admittance to course by advance instructor permission only. 1:5:3
- TH 307 *History and Literature of Theatre I (LL)***
 A survey of world theatre and specific movements and representative dramatic literature from its beginnings in primitive times until the beginning of the modern period in the 1800s. 3:0:3
- TH 308 *History and Literature of Theatre II (LL)***
 A survey of world theatre and specific movements and representative dramatic literature from the beginnings of the modern period in the 1800s to the present. 3:0:3
- TH 310 *Junior Theatre Practicum***
 Practical experience in the techniques of theatre, designed as an extension of the lower division practicum's in theatre. Emphasis is on more advanced techniques acting in major roles, heading production crews and management supervisory work. Prerequisite: permission of department chair. Variable credit: 1-3 hours.
- TH 316 *Directing II***
 Advanced study in directing techniques. Each student must direct a one-act play. Prerequisite required: TH 216. 1:2:3
- TH 317 *Design II***
 A course designed to assist the student in developing proficiency as a designer of scenery and lighting through research, classroom discussion, and design projects. Prerequisite required: TH 217. 1:2:3
- TH 400 *Special Topics in Theatre***
 Study and research of topics of special interests to students as further exploration of finite areas projected in preceding courses. May be repeated for a maximum of 6 hours. Variable credit: 1-3 hours.
- TH 410 *Senior Theatre Practicum***
 Practical experience in the techniques of theatre, designed as an extension of the lower division practicum in theatre. Emphasis is on the assumption of a major departmental responsibility such as play direction, stage management

of an intricate production, set, costume or lighting design and execution of a major production, etc. Prerequisite: permission of department chair.

Variable credit: 1-3 hours.

TH 490**Theatre Internship**

Provides the opportunity for theatre students to gain credit for professional work with various resident theatre companies in the Kansas City area.

Prerequisites: junior or senior standing and permission of department chair.

Variable credit: 1-6 hours.

TH 495**Senior Project (Capstone Course)**

The preparation and presentation of a culminating creative experience in acting, directing, or design. 1:2:3.