

# Course Descriptions

## **ACCT 201 - Financial Accounting**

**Credit Hours: 3**

Introduces the basic accounting theory and procedures for proprietorships, partnerships, and corporations.

## **ACCT 202 - Managerial Accounting**

**Credit Hours: 3**

Covers the analysis and interpretation of accounting information for management planning, controlling, and decisions.

Prerequisite: ACCT 201

## **ACCT 301 - Intermediate Accounting I**

**Credit Hours: 3**

Examines the elements of modern financial accounting theory in the preparation of corporate financial statements.

Prerequisite: Minimum grade of C in ACCT 201

## **ACCT 302 - Intermediate Accounting II**

**Credit Hours: 3**

Examines the elements of modern financial accounting theory in the preparation of corporate financial statements.

Prerequisite: Minimum grade of C in ACCT 201, ACCT 301

## **ACCT 363 - Cost Accounting**

**Credit Hours: 3**

Covers manufacturing cost accumulation for product costing and the analysis of costs for managerial decisions.

Prerequisite: ACCT 202

## **ACCT 364 - Income Taxes**

**Credit Hours: 3**

Analyzes federal income tax laws and their application to individuals.

Prerequisite: ACCT 201

## **ACCT 410 - Topics in Accounting**

**Credit Hours: 3**

Offers the student an opportunity to pursue the in-depth study of accounting theory not covered in other accounting courses.

Prerequisite: ACCT 302

Repeatability: The course may be repeated for credit as the subject matter changes.

**ACCT 411 - Advanced Accounting**

**Credit Hours: 3**

Involves the accounting for partnerships, consolidations, foreign currency translation, and governmental units.

Prerequisite: ACCT 302

**ACCT 412 - Auditing**

**Credit Hours: 3**

Examines the concepts necessary to determine whether a business's financial statements have been prepared in accordance with generally accepted accounting principles.

Prerequisite: ACCT 302

**ACCT 420 - Accounting Information Systems**

**Credit Hours: 3**

Focuses on acquiring an understanding of business processes which are fundamental to contemporary auditing, professional, and legal considerations relating to the organization's internal control processes. Detailed material on business and internal control processes are central to this course, which stresses information, communication, and electronic commerce applied within the contexts of business processes, transaction cycles, and the internal control processes.

Prerequisite: ACCT 301

**ACCT 421 - Advanced Taxation**

**Credit Hours: 3**

The second course in the tax series and is a continuation of the Income Taxes course. Advanced taxation issues related to individual taxpayers are examined. In addition, the taxation of corporations, partnerships, exempt entities, estates, and trusts are covered.

Prerequisite: ACCT 364

**ACCT 422 - Governmental Accounting and Auditing**

**Credit Hours: 3**

Focuses on the unique aspects of the accounting methods that are used by governmental and not-for-profit entities. The course also examines audit procedures and requirements that are applicable to these entities.

Prerequisite: ACCT 302

### **ACCT 423 - Software Applications for Accountants**

**Credit Hours: 3**

Focuses on business applications implementing EXCEL at both the introductory and intermediate levels, and Quickbooks. These skills are then applied to accounting exercises and practice sets.

Prerequisite: ACCT 301

### **ACCT 495 - Seminar**

**Credit Hours: 3**

Enables the student to pursue in depth an approved research project in accounting.

Prerequisite: ACCT 302

### **ANST 250 - Career Development in Animal Studies**

**Credit Hours: 1**

Orients students to the field of animal studies as well as to the array of career opportunities that can extend from a major in animal studies. Students are challenged to investigate the specific knowledge and skills required for job candidates in their area of interest as well as identifying potential employers. As part of the course experience, students are required to develop a presentation of career and employment options based on research conducted using resources available through the University's Office of Career Services. The seminar requires students to identify academic coursework as well as professional development experiences (e.g., internship opportunities, shadowing programs, research experiences) that are appropriate for their career interests. Students submit a career development plan that highlights the knowledge, skills, and experiences they need to acquire as well as any needs they may have to clarify their goals.

### **ANST 495 - Senior Seminar in Animal Studies**

**Credit Hours: 3**

A capstone course for students completing the animal studies major. The course involves reading and analysis of literature from the field. Students complete a capstone project that generally takes the form of a written literature review, developing a capstone experience that directly relates to the student's career interest area(s). Topics are selected in consultation with the supervising faculty member.

Prerequisite: permission of the course instructor

### **ART 112 - Drawing I**

**Credit Hours: 3**

Introduces the fundamentals of two-dimensional composition through experiences designed to increase visual perception and provide technical skill. Students are introduced to visual concepts such as positive and negative space, linear perspective, and proportion. Discussion and critiques introduce aesthetic theories.

## **ART 120 - Three-Dimensional Design**

**Credit Hours: 3**

A foundation course which is intended to be completed in the freshman year (or initial year of study) for the art major. The course introduces the fundamentals of three-dimensional compositions for the visual arts. The course is designed to increase visual perception and provide technical skills with fundamental three-dimensional problems. A portion of the course provides experience with the use of tools and materials required in fabrication of three-dimensional media of wood, paper, wire, clay, metals, and new technologies, while another portion of the course focuses on design using traditional and computer related tools.

## **ART 121 - Ceramics I**

**Credit Hours: 3**

Introduces methods and aesthetics from ancient and contemporary practices used worldwide. Fundamental three-dimensional design problems are explored using hand building and wheel throwing techniques. Basic clay and glaze formulation theory along with various firing procedures are included.

## **ART 131 - Sculpture I**

**Credit Hours: 3**

Introduces three-dimensional design elements, criticism, media, technique, and conceptual concerns as employed in contemporary and historical sculpture produced worldwide. Inspiration, conception, and working philosophies are stressed.

## **ART 141 - Photography**

**Credit Hours: 3**

Introduces the fundamentals of black and white photography. This course covers lenses, lighting, camera handling, and various techniques in digital photography. It also involves digital photo manipulation, matting, and displaying prints. Emphasis is on historical development of photography, the study of composition, and creative approaches of photographic expression.

## **ART 151 - Introduction to Art**

**Credit Hours: 3**

Expands the student's awareness and understanding of the visual arts through art theory and critical analysis by emphasizing present, historical, and multi-cultural perspectives.

## **ART 170 - Graphic Design I**

**Credit Hours: 3**

Introduces elements of two-dimensional, visual communication design. Highlights include an investigation of basic concepts and principles of graphic design, and an introduction to utilization of computer software programs in representation, creation, and study of designs. Students design and produce basic-level design projects in a computer-based environment.

## **ART 212 - Drawing II**

**Credit Hours: 3**

A further development of the fundamentals presented in Drawing I, including a variety of media; subject matter including landscape, figure drawing, portrait, and still life; and approaches to personal expression in drawing.

Prerequisite: ART 112

## **ART 221 - Ceramics II**

**Credit Hours: 3**

A thorough investigation of wheel throwing techniques, including a range of glazes and firings. Wheel aesthetics are contrasted with those of hand building.

Prerequisite: ART 121

## **ART 231 - Sculpture II**

**Credit Hours: 3**

A more thorough study of sculptural techniques. Effective communication of conceptual concerns is stressed.

Prerequisite: ART 131

## **ART 241 - Painting I**

**Credit Hours: 3**

Deals with the fundamentals of painting, including color theory, color mixing, preparation of canvas, and other grounds and care of materials. Aesthetic theories and criteria of excellence are introduced.

## **ART 270 - Graphic Design II**

**Credit Hours: 3**

Includes computer-based graphic design areas, and teaches page design and layout of various types. Typography, image, space, color, and form will be integrated as the term progresses. Emphasis is placed on students' application of design concepts to communication purpose, solutions for specific client areas, and development of visual designs that effectively communicate the desired message.

Prerequisite: ART 170

## **ART 312 - Drawing III**

**Credit Hours: 3**

Builds upon Drawing I and Drawing II with a focus on producing more personal and expressive drawing. Advanced composition, communication, content, and idea development are emphasized.

Prerequisite: ART 212

**ART 321 - Ceramics III**

**Credit Hours: 3**

An advanced investigation of one or more aspects of the field. Emphasis is on competent and informed individual initiative and creation.

Prerequisite: ART 221

**ART 331 - Sculpture III**

**Credit Hours: 3**

An advanced investigation of one or more aspects of the field with emphasis on competent and informed individual initiative and creation.

Prerequisite: ART 231

**ART 341 - Painting II**

**Credit Hours: 3**

Focuses upon personal expression and the decisions made in creative endeavors. Students explore individual solutions to painting problems and develop their own aesthetic and style.

Prerequisite: ART 241

**ART 350 - Art History I**

**Credit Hours: 3**

Introduces Western art from prehistory through Roman classicism and visual art from non-western cultures. Understanding of historical and cultural context is stressed.

**ART 351 - Art History II**

**Credit Hours: 3**

Investigates Western art from early medieval times through the end of the 1700s. Stylistic influences are stressed.

**ART 352 - Art History III**

**Credit Hours: 3**

An investigation of why and how Western art changes from the early 1800s to the present. Conceptual and multi-cultural influences are stressed.

### **ART 370 - Graphic Design III**

**Credit Hours: 3**

Focuses on advanced graphic design concepts and ideas, as well as in-depth graphic design features on the computer. Production technology is discussed. Advanced graphic communication and typography concepts are studied. Graphic design in a variety of programs in marketing, communications, advertising, public relations, and journalism is highlighted. Students work towards building finished portfolio contents.

Prerequisite: ART 170 and ART 212, or permission of the instructor

### **ART 412 - Life Drawing**

**Credit Hours: 3**

Consists of drawing from the nude, draped and clothed human figure from masterpieces in books or museums, with emphasis on study of structure, proportion and anatomy for artists. Various media and approaches to drawing figure are used.

Prerequisite: ART 212 or permission of the instructor

### **ART 441 - Painting III**

**Credit Hours: 3**

Provides the advanced student with the opportunity to develop control and mastery of the techniques and methods acquired in ART 241 and ART 341. A personal aesthetic and style are emphasized.

Prerequisite: ART 341

### **ART 455 - Student Teaching in Primary/Middle Level Visual Arts**

**Credit Hours: 5**

Involves students as practice teachers in a six-week supervised experience in planning for instruction, creating an environment for student learning, teaching for student learning, and reflecting on students' performance completed in a primary or middle school setting, grades K-3 or grades 4-8.

### **ART 457 - Student Teaching in Secondary Visual Arts**

**Credit Hours: 5**

Involves students as practice teachers in a six-week supervised experience in planning for instruction, creating an environment for student learning, teaching for student learning, and reflecting on students' performance completed in a secondary school setting, grades 9-12.

### **ART 490 - Senior Seminar and Capstone Assessment**

**Credit Hours: 2**

Provides the senior art major with a gallery exhibit experience. The student carries out all aspects of designing, publicizing, and hanging an exhibit of visual work done during college. The student completes the required portfolio competencies of written paper, interdisciplinary art, intercultural art, art history, and power points of images.

**ART 491 - Directed Study****Credit Hours: 1**

Allows the advanced student to create independent work under faculty guidance with permission of the department chair.

**ART 492 - Directed Study****Credit Hours: 2**

Allows the advanced student to create independent work under faculty guidance with permission of the department chair.

**ART 493 - Directed Study****Credit Hours: 3**

Allows the advanced student to create independent work under faculty guidance with permission of the department chair.

**ART 494 - Directed Study****Credit Hours: 4**

Allows the advanced student to create independent work under faculty guidance with permission of the department chair.

**ATHT 110 - Introduction to Athletic Training I****Credit Hours: 3**

Presents an overview of the profession of athletic training as well as a survey of the fundamentals of athletic medicine, including an overview of injuries.

Note: This course is a requirement for those students wishing to apply for admission into the Athletic Training Program (ATP).

**ATHT 201 - Practicum****Credit Hours: 3**

Provides the student with clinical based opportunities within a variety of athletic training settings working under the direct supervision of a preceptor. Classroom and laboratory sessions are designed to review specific educational competencies and clinical proficiencies. Students complete integrated clinical proficiencies as required for completion



of the athletic training program. Students are required to complete a minimum of 120 hours during the semester while assigned to a clinical rotation, in addition to one hour of classroom instruction each week. Clinical education rotations include a rotation in each of the following areas: upper extremity intensive, lower extremity intensive, non-orthopedic/non-sport intensive, and equipment intensive.

Prerequisite: Formal acceptance into the ATP

## **ATHT 202 - Practicum**

### **Credit Hours: 3**

Provides the student with clinical based opportunities within a variety of athletic training settings working under the direct supervision of a preceptor. Classroom and laboratory sessions are designed to review specific educational competencies and clinical proficiencies. Students complete integrated clinical proficiencies as required for completion of the athletic training program. Students are required to complete a minimum of 120 hours during the semester while assigned to a clinical rotation, in addition to one hour of classroom instruction each week. Clinical education rotations include a rotation in each of the following areas: upper extremity intensive, lower extremity intensive, non-orthopedic/non-sport intensive, and equipment intensive.

Prerequisite: Formal acceptance into the ATP

## **ATHT 250 - Upper Extremity Assessment**

### **Credit Hours: 4**

Entails the study of evaluation techniques for injuries to the thoracic and cervical spine, the head and the upper extremities. Review of anatomy, injury recognition, muscle testing, treatment protocols and preventative measures are also examined.

Prerequisite: Formal acceptance into the ATP

Note: The course is taught in both classroom and laboratory settings.

## **ATHT 255 - Lower Extremity Assessment**

### **Credit Hours: 4**

Entails the study of evaluation techniques for injuries to the lower extremities and lower back. Anatomy, injury recognition, muscle testing, treatment protocols and preventative measures are also examined. The course is taught in both classroom and laboratory settings.

Prerequisite: ATHT 250

## **ATHT 260 - Therapeutic Intervention I**

### **Credit Hours: 3**

Examines the broad field of therapeutic exercise and rehabilitation techniques. Didactic instruction covers various skills used in therapeutic rehabilitation of major body areas following injury or disease. Topics also include therapeutic modalities, and pharmacology.

Prerequisite: Formal acceptance into the ATP

## **ATHT 265 - Therapeutic Intervention II**

### **Credit Hours: 3**

Utilizes intervention strategies as applied to specific injury rehabilitation programs. Students design and implement programs in the rehabilitation of patients from injuries and conditions.

Prerequisite: ATHT 260

Note: Both classroom and laboratory settings are used.

## **ATHT 301 - Practicum**

### **Credit Hours: 3**

Provides the student with clinical based opportunities within a variety of athletic training settings working under the direct supervision of a preceptor. Classroom and laboratory sessions are designed to review specific educational competencies and clinical proficiencies. Students complete integrated clinical proficiencies as required for completion of the athletic training program. Students are required to complete a minimum of 120 hours during the semester while assigned to a clinical rotation, in addition to one hour of classroom instruction each week. Clinical education rotations include a rotation in each of the following areas: upper extremity intensive, lower extremity intensive, non-orthopedic/non-sport intensive, and equipment intensive.

Prerequisite: ATHT 201, ATHT 202, formal acceptance into the ATP

## **ATHT 302 - Practicum**

### **Credit Hours: 3**

Provides the student with clinical based opportunities within a variety of athletic training settings working under the direct supervision of a preceptor. Classroom and laboratory sessions are designed to review specific educational competencies and clinical proficiencies. Students complete integrated clinical proficiencies as required for completion of the athletic training program. Students are required to complete a minimum of 120 hours during the semester while assigned to a clinical rotation, in addition to one hour of classroom instruction each week. Clinical education rotations include a rotation in each of the following areas: upper extremity intensive, lower extremity intensive, non-orthopedic/non-sport intensive, and equipment intensive.

Prerequisite: ATHT 201, ATHT 202, formal acceptance into the ATP

## **ATHT 370 - General Medical Conditions**

### **Credit Hours: 4**

Focuses on clinical signs and symptoms of pathology, which will allow the practicing athletic trainer to recognize systemic illnesses and injuries. The use of pharmacological agents in acute and chronic illnesses and conditions is also discussed.

Prerequisite: ATHT 265

## **ATHT 375 - Therapeutic Modalities**

**Credit Hours: 4**

Provides the student with the opportunity to develop knowledge of and proficiency in the theory and practice of the techniques and methods of therapeutic modalities (such as thermal and electromagnetic agents) which are used in the treatment and care of athletic injuries.

Prerequisite: Formal acceptance into the ATP

**ATHT 395 - Research Methods****Credit Hours: 3**

Introduces the basic skill necessary to critique research in athletic training. Students focus on the process of selecting a topic and then writing a manuscript to be submitted for publication. The course prepares the Athletic Training student for 495, Senior Seminar.

Prerequisite: ATHT 370

**ATHT 401 - Practicum****Credit Hours: 3**

Provides the student with clinical based opportunities within a variety of athletic training settings working under the direct supervision of a preceptor. Classroom and laboratory sessions are designed to review specific educational competencies and clinical proficiencies. Students complete integrated clinical proficiencies as required for completion of the athletic training program. Students are required to complete a minimum of 120 hours during the semester while assigned to a clinical rotation, in addition to one hour of classroom instruction each week. Clinical education rotations include a rotation in each of the following areas: upper extremity intensive, lower extremity intensive, non-orthopedic/non-sport intensive, and equipment intensive.

Prerequisite: ATHT 301, ATHT 302, formal acceptance into the ATP

**ATHT 402 - Practicum****Credit Hours: 3**

Provides the student with clinical based opportunities within a variety of athletic training settings working under the direct supervision of a preceptor. Classroom and laboratory sessions are designed to review specific educational competencies and clinical proficiencies. Students complete integrated clinical proficiencies as required for completion of the athletic training program. Students are required to complete a minimum of 120 hours during the semester while assigned to a clinical rotation, in addition to one hour of classroom instruction each week. Clinical education rotations include a rotation in each of the following areas: upper extremity intensive, lower extremity intensive, non-orthopedic/non-sport intensive, and equipment intensive.

Prerequisite: ATHT 301, ATHT 302, formal acceptance into the ATP

**ATHT 495 - Senior Seminar****Credit Hours: 3**

Enables the student to pursue in depth an approved research project with a focus on the evidence-based practice of athletic training. Students research a specific topic and prepare an oral presentation as well as a written paper.

Prerequisite: ATHT 395

## **ATHT 496 - Current Concepts in Athletic Training**

**Credit Hours: 3**

Examines special topics pertaining to the field of athletic training and sports medicine. Topics may include nutrition, equipment utilization, women in athletics and/or other advanced topics in athletic training identified by students. This course also begins preparation for students taking the BOC Examination.

Prerequisite: ATHT 495

## **BIOL 100 - Science and Society**

**Credit Hours: 3**

Intended for non-science majors, although a total of two credit hours from this course or BIOL 106 may be applied toward the biology major. Offerings focus on an area of the biological sciences which has an impact on society. Discussions include the impact this area has on society and include an exploration of the use of scientific method. Each offering focuses on one primary topic area. Examples of a primary topic area include environmental science, conservation science, or human health.

## **BIOL 106 - Contemporary Biologic Issues**

**Credit Hours: 4**

Intended for non-science majors, although two credit hours from any one of the following classes may be applied toward the biology major. In addition, more than one course may be taken for graduation credit, but only one counts for the gen ed requirement. Topical offerings provide students with current content knowledge within important fields of biological science and also serve as a platform for illustrating how scientific inquiry develops and addresses scholarly questions. Following are descriptions of the different course offerings: a. Environmental Science examines the basic principles of evolution, ecology, and population biology. These principles lay the groundwork for a detailed look at world biodiversity, conservation, sustainable resource use, and anthropogenic-based water and air pollution. b. Conservation Science deals with the threats facing the Earth's biological diversity such as habitat destruction, overexploitation, and exotic species introductions. In addition, practical approaches to maintaining and managing biological diversity are examined and the critical linkages between ecology, economics, and politics are emphasized. c. Concepts in Evolution provide an introduction to fundamental principles underpinning contemporary evolutionary biology. In addition to lecture and text readings, weekly discussion meetings provide a forum for evaluating the extent to which evolutionary principles may provide a contextual framework for understanding a number of contemporary social issues. d. Genetic Frontiers and Biotechnology surveys the scientific principles, applications and social implications of genetic engineering. e. Human Biology surveys basic biological chemistry, scientific method, tissues and organ systems and applies this to demonstrate how biology influences our quality of life. f. Human Diseases surveys microbes and disease with special emphasis on infectious diseases caused by bacteria and viruses. The characteristics of microbes, interaction between microbes and host, immunity to disease, and treatment are also emphasized.

Note: Lecture and laboratory experiences are included.

## **BIOL 107 - Biology Laboratory I**

**Credit Hours: 1**

A laboratory course that utilizes observation and experimentation to explore the principles of evolution and the defining characteristics of several of the major animal phyla.

Co-requisite: BIOL 111

**BIOL 108 - Biology Laboratory II**

**Credit Hours: 1**

A laboratory course that utilizes observation and experimentation to study the structure and function of various organs and organ systems in vertebrates.

Co-requisite: BIOL 112

**BIOL 111 - Organismal Biology I**

**Credit Hours: 3**

Studies the principles of biological evolution; examines the defining characteristics of all of the major animal phyla.

Co-requisite: BIOL 107

**BIOL 112 - Organismal Biology II**

**Credit Hours: 3**

Studies the structure and function of various organ systems in vertebrates. Examples from invertebrates are frequently used to emphasize diversity, adaptability, and evolution.

Co-requisite: BIOL 108

**BIOL 121 - Anatomy & Physiology I**

**Credit Hours: 4**

Focuses on the anatomy and physiology of the human body. This is the first part of a two-course offering in human anatomy and physiology which covers how the body is organized, supported, and regulated.

**BIOL 122 - Anatomy & Physiology II**

**Credit Hours: 4**

Focuses on the anatomy and physiology of the human body. This is the second part of a two-course offering in human anatomy and physiology and primarily focuses on the maintenance and continuity of the human body.

**BIOL 213 - Functional Histology**

**Credit Hours: 4**

Studies the structure and function of animal tissues and the methods used in preparing them for microscopic examination.

Prerequisite: BIOL 112, BIOL 108

Note: Lecture and laboratory experiences are included.

## **BIOL 221 - Vascular Plant Systematics**

**Credit Hours: 4**

Deals with the classification, evolution, and natural history of selected families of vascular plants with emphasis on the regional flora. Students are required to develop their own plant collection.

Prerequisite: BIOL 111, BIOL 107

## **BIOL 226 - Introduction to Cell and Molecular Biology**

**Credit Hours: 3**

Focuses on cell structure and function, membrane structure and function, cellular energy, photosynthesis, glycolysis, cellular respiration, DNA, gene activity, the regulation of gene activity, recombinant DNA, and biotechnology.

Prerequisite: BIOL 112 and BIOL 108 or BIOL 121 or BIOL 122

## **BIOL 232 - Vertebrate Natural History**

**Credit Hours: 4**

This course focuses on the identification, classification and natural history of fish, amphibians, reptiles, birds and mammals in the local region.

Prerequisite: BIOL 111, BIOL 107

Note: Lecture, laboratory, field experiences, and possible Saturday field trips are included.

## **BIOL 240 - Animal Behavior**

**Credit Hours: 3**

Examines the basic principles of animal behavior as derived from evolution, ecology, ethology and development. The course focuses on important biological activities, such as communication, mating, foraging, migration, predator-prey interactions, and parental care.

Prerequisite: BIOL 111, BIOL 107, BIOL 112, BIOL 108

## **BIOL 250 - Human Disease: Perspectives for Health Professionals**

**Credit Hours: 3**

This course provides an overview of human diseases and various disabling conditions as they relate to healthcare professionals and settings. Students will explore the etiology, symptoms and signs, diagnosis, treatment, prognosis, prevention, and patient teaching opportunities for each disease and condition from the perspective of a healthcare

professional. Course content will be reinforced through application to clinical practice in case studies related to the learner's professional area of interest.

MAP Only: X

## **BIOL 304 - Evolution**

### **Credit Hours: 4**

Provides an in-depth exposure to contemporary evolutionary biology through lectures and selected readings from the primary literature. The course not only emphasizes information germane to the theory itself, but also important questions currently facing researchers in the field.

Prerequisite: BIOL 111, BIOL 107, BIOL 112, BIOL 108

## **BIOL 305 - Human Genetics**

### **Credit Hours: 3**

Provides an overview of fundamental principles, concepts, and knowledge in the field of genetics. The course places particular emphasis on those aspects of genetics that are germane to human heredity and health.

Prerequisite: Permission of the department. Does not count toward the biology major.

## **BIOL 306 - Genetics**

### **Credit Hours: 4**

Surveys the fundamental principles of heredity and variation.

Prerequisite: BIOL 112 and BIOL 108 or BIOL 121 and BIOL 122

Note: Lecture and laboratory experiences are included.

## **BIOL 308 - General Ecology**

### **Credit Hours: 4**

Examines the interrelationships between organisms and the environments in which they live.

Prerequisite: BIOL 111, BIOL 107

Note: Lecture, laboratory and extensive field work are included.

## **BIOL 312 - Microbiology**

### **Credit Hours: 4**

Studies the relationship between microorganisms and our lives. The course explores the nature of microorganisms with special emphasis placed on bacteria of importance to medicine and industry. The course also explores body defense mechanisms.

Prerequisite: BIOL 112 and BIOL 108 or BIOL 121 and BIOL 122, CHEM 111, CHEM 112  
Note: Lecture and laboratory experiences are included.

### **BIOL 321 - Advanced Botany**

**Credit Hours: 4**

An evolutionary study of the evolution, morphology, and life-history traits of the major plant and algae groups. Lab emphasizes anatomy.

Prerequisite: BIOL 111, BIOL 107

### **BIOL 336 - Cellular Physiology**

**Credit Hours: 4**

Studies the cellular processes involved in membranes, bioenergetics, control systems, neurochemistry, muscles, and glands. Laboratory emphasizes basic techniques used in cell biology and biochemistry.

Prerequisite: BIOL 112, BIOL 108, BIOL 226, CHEM 111, CHEM 112

### **BIOL 346 - Pathophysiology**

**Credit Hours: 3**

Provides an understanding of how physiological changes manifest themselves under altered health states. Upon completion of the course students will possess an understanding of how altered health states change normal physiological conditions. Additionally, students will understand basic methods of detection and putative treatment strategies.

Prerequisite: BIOL 112 or BIOL 121 and BIOL 122

### **BIOL 368 - Fundamental Neuroscience**

**Credit Hours: 4**

Emphasizes basic neurophysiology, neurochemistry, synaptic function, coordinated organismal functions, and common neurological disorders. Laboratory emphasizes neuroanatomy.

Prerequisite: BIOL 112, BIOL 108, BIOL 226

Cross Listed As: NRSC 368

### **BIOL 373 - Comparative Vertebrate Anatomy**

**Credit Hours: 4**

Studies the origin, relationships, and comparative morphology of a representative series of chordates.

Prerequisite: BIOL 112, BIOL 108

Note: Lecture and laboratory experiences are included.



## **BIOL 375 - Molecular Biology**

**Credit Hours: 4**

Studies the biochemical and molecular interactions within living cells with special emphasis placed on protein structure, gene structure and expression, gene regulation, and genetic engineering.

Prerequisite: BIOL 112, BIOL 108, BIOL 226, CHEM 111, CHEM 112

Note: Lecture and laboratory experiences are included.

## **BIOL 376 - Pathophysiology II**

**Credit Hours: 3**

Provides an understanding of how physiological changes manifest themselves under altered health states. Upon completion of this course, students will possess an understanding of how altered health states change normal physiological conditions. Additionally, students will understand basic methods of detection and putative treatment strategies. This is one of two-course offerings in pathophysiology and primarily focuses on neurological, musculoskeletal and integumentary pathologies.

MAP Only: X

## **BIOL 385 - Topics in Biology**

**Credit Hours: 1-4**

Provides an opportunity to study areas of biology not covered by the established curriculum

Prerequisite: Permission of instructor

## **BIOL 420 - Senior Seminar**

**Credit Hours: 3**

Involves a discussion of a series of scientific papers covering a biological topic. In addition, students search the biological literature related to the topic and prepare an oral presentation as well as a written paper.

Prerequisite: Biology major and junior standing.

## **BIOL 421 - Biological Research**

**Credit Hours: 2**

Involves laboratory and/or field research on a biological problem.

Prerequisite: BIOL 420 and permission of the instructor

## **BIOL 422 - Biological Research**

**Credit Hours: 2**

Involves laboratory and/or field research on a biological problem.

Prerequisite: BIOL 421 and permission of the instructor

## **BUSI 221 - Organizational Management**

**Credit Hours: 3**

Examines the classical, behavioral, and quantitative schools of management theory, with particular attention given to current research and practice. The nature of authority and responsibility, departmentation, line and staff relationships, organizational growth, managerial development, decision-making, and leadership of both profit and non-profit organizations are among the topics discussed.

## **BUSI 241 - Marketing**

**Credit Hours: 3**

Studies the problems of distributing goods, both industrial and consumer. Special attention is given to the increased importance of marketing techniques in modern economies.

## **BUSI 318 - Managerial Finance**

**Credit Hours: 3**

Studies the management of fixed and working capital, short and long-range financial planning, money and capital markets, expansion of income administration, business failures, and business reorganization.

Prerequisite: ACCT 201, ECON 215

## **BUSI 321 - Management Techniques**

**Credit Hours: 3**

Examines the classical, behavioral, and quantitative schools of management theory, with particular attention given to current research and practice. The nature of authority and responsibility, departmentation, line and staff relationships, organizational growth, managerial development, decision-making, and leadership of both profit and non-profit organizations are among the topics discussed. An emphasis on group decision making and a research component are also components of this class.

Note: Not available for credit to students who have completed BUSI 221 .

MAP Only: X

## **BUSI 325 - Statistics**

**Credit Hours: 3**

Concerned with the analysis of data and application of the principles of probability theory, decision theory, and statistical inference to the analysis of business and economic data. Emphasis is placed on the construction of economic models in order to gain an understanding of business and government.

## **BUSI 326 - Financial Analysis and Investment**

**Credit Hours: 3**

Evaluates analytic techniques and alternative financial instruments available to the investor. Emphasis is placed on security selection, portfolio management, and the operation of markets.

Prerequisite: ACCT 201, ECON 215

**BUSI 341 - Marketing Techniques**

**Credit Hours: 3**

This course studies the problems of distributing goods, both industrial and consumer, in a modern economy. Special attention is given to group activities, individual research and the increased importance of marketing techniques in modern economics.

Note: Not available for credit to students who have completed BUSI 241.

MAP Only: X

**BUSI 360 - Business Law**

**Credit Hours: 3**

Studies law as it relates to business, including torts, crimes, contracts, commercial paper, and anti-trust laws.

**BUSI 411 - Topics in Business**

**Credit Hours: 3**

An in-depth study of current theory in selected areas and its application to organizational operations.

Prerequisite: By section specified at each offering.

Repeatability: The course may be repeated for credit as the subject matter changes.

**BUSI 412 - International Business**

**Credit Hours: 3**

Studies business in a global context, stressing cultural, political, and economic environments facing international business and operational aspects of international management, international marketing, and international finance.

Prerequisite: BUSI 221, BUSI 241

**BUSI 413 - Software Applications for Business**

**Credit Hours: 3**

Focuses on implementing EXCEL and Quickbooks at both the beginning and intermediate levels. ACCESS is implemented at the beginning level.

**BUSI 414 - Business Ethics**

**Credit Hours: 3**

Explores how managerial ethical behavior affects organizations, employees, communities, and society. Emphasis is placed on current situations facing managers as they operate in an environment demanding increased corporate ethical behavior.

**BUSI 415 - Human Resource Management****Credit Hours: 3**

Provides students with a thorough understanding of Human Resource Management issues, practices, and procedures. Through the use of classroom lectures, experiential activities, and cases, students develop the ability to transfer advanced knowledge into practical applications when confronted with human resource opportunities, problems, and challenges.

**BUSI 416 - Professional Selling****Credit Hours: 3**

Involves the study of direct person-to-person communication that facilitates mutually satisfying exchanges of value. Students discuss and analyze the techniques, myths, issues, ethics, and roles in sales. Many skills that a successful salesperson needs are addressed through both in-class and out-of-class activities.

Prerequisite: BUSI 241

**BUSI 417 - Advertising****Credit Hours: 3**

Familiarizes the student with the primary methods by which goods, services, ideas, people, and organizations can be advertised to an audience. A strong emphasis is on the issues surrounding the management and planning of an integrated marketing communications strategy.

Prerequisite: BUSI 241

**BUSI 419 - Consumer Behavior****Credit Hours: 3**

Analyzes the various inputs to, influences on, and outcomes of the consumer buying decision process. Among the topics discussed are consumer motivation; exposure and attention to marketing stimuli; learning, memory, and retrieval; attitude formation and change; problem recognition, information search, evaluation, and purchase decision making; social, cultural, and situational influences on consumer behavior; and various special topics.

Prerequisite: BUSI 221, BUSI 241

**BUSI 420 - Management Information Systems****Credit Hours: 3**

Provides a thorough understanding of how the manager can use the computer in problem solving. It is assumed that students understand the role of the computer as a problem-solving tool.

## **BUSI 422 - Marketing Research**

**Credit Hours: 3**

Studies the tools and techniques available for gathering and analyzing information to be used by those making strategic marketing decisions.

Prerequisite: BUSI 241

## **BUSI 423 - International Marketing**

**Credit Hours: 3**

Broadens the principles of marketing to include corporations conducting business in a global environment. Special attention is given to social, cultural, political, economic and other factors affecting international marketing operations.

Prerequisite: BUSI 241

## **BUSI 424 - Entrepreneurship**

**Credit Hours: 3**

This course offers a broad view of various aspects of entrepreneurship. Includes a focus on creativity and innovation.

## **BUSI 430 - Employment Law for Business**

**Credit Hours: 3**

This course provides students with an overview of the employment-related legal environment impacting the 21st Century American workplace. The course focuses on an overview of the rights and obligations of both the employer and the employee and provides practical examples of how employment laws impact the business setting.

MAP Only: X

## **BUSI 431 - Topics in Human Resource Management**

**Credit Hours: 3**

This course is designed to be a topics course within the specific discipline of Human Resource Management. The course allows the instructor and the B.S. Program in Human Resource Management to take advantage of the most topical and relevant concepts and issues in human resources. This course adds needed depth to a student's learning in the Human Resource major (MAP only), and the course should involve both theoretical and case study as well as applied assignments in the topical area(s).

MAP Only: X

## **BUSI 440 - Marketing Analytics & Strategy**

**Credit Hours: 3**

This course is designed to be a two-fold, integrated approach to understanding and applying appropriate marketing planning and strategy. The first part of the course examines the proper way to organize, analyze, and integrate relevant and reliable research data and information so that it can be used most efficiently and effectively in strategic marketing. The second part of this course is a comprehensive examination of marketing planning and strategy, culminating with the student developing a marketing plan.

MAP Only: X

**BUSI 450 - Strategic Management****Credit Hours: 3**

This course is designed to be a comprehensive examination of strategic management of organizations and how an upper-level manager formulates and implements an appropriate strategy. At a minimum, students will investigate the following: the strategic management process, mission statements, objectives, external and internal analysis, business level strategies, competitive dynamics, financial statement analysis, ethical issues in strategic management, corporate level strategies, international strategies, strategy implementation and organizational change, and corporate governance. Integration of the various management and business disciplines previously studied and experienced as well as the opportunity to develop managerial decision-making abilities.

MAP Only: X

**BUSI 495 - Seminar****Credit Hours: 3**

Enables the student to pursue an approved research project in business theory.

Prerequisite: Departmental approval

Note: May be taken twice for credit by students completing both the Marketing and Business Management majors.

**BUSI 496 - Bachelor of Science Seminar in Business****Credit Hours: 3**

This course is designed to be the capstone experience for a student in the B.S. major degree of study, Business Administration, Marketing, or Human Resource Management. The seminar course requires the student to engage in a significant scientific research project of applied professional project in the discipline of their major.

MAP Only: X

**CHEM 101 - Joy of Chemistry****Credit Hours: 3**

An application of scientific methods of inquiry through a survey of fundamental chemical concepts as they relate to contemporary societal topics of interest. Examples of topics covered include food chemistry, chemistry of brewing, chemistry and your body, forensic chemistry, environmental chemistry, and chemistry and art. It is designed for non-science majors to gain an appreciation for the natural sciences.

Note: This course is not open to those who already have credit for a 100-level chemistry course.

## **CHEM 105 - Issues in the Chemical Sciences**

### **Credit Hours: 4**

Designed for non-science majors. Attention is directed to the dynamic and social nature of chemical science by relating contributions of individuals and groups to the advancement of chemical knowledge. Sections of the course are dedicated to exploring the role of chemistry in selected areas of importance to society through the presentation of a set of fundamental chemical concepts.

Note: This course is not open to those who already have credit for a 100-level chemistry course.

## **CHEM 108 - General, Organic, and Biological Chemistry**

### **Credit Hours: 4**

The study and application of fundamental chemical concepts in the context of the allied health sciences. Special attention is paid to the areas of general chemistry that can be directly applied to the understanding of organic and biological chemistry.

## **CHEM 111 - General Chemistry I**

### **Credit Hours: 4**

Serves as foundation courses for the areas of physical, analytical, inorganic, organic, and biochemistry. Emphasis is placed on the topics of atomic structure, periodicity, stoichiometry, bonding, thermochemistry, kinetics, equilibria, and electrochemistry. The companion laboratories focus on standard and instrumental laboratory methodologies with experiments chosen to illustrate key topics from lecture.

## **CHEM 112 - General Chemistry II**

### **Credit Hours: 4**

Serves as foundation courses for the areas of physical, analytical, inorganic, organic, and biochemistry. Emphasis is placed on the topics of atomic structure, periodicity, stoichiometry, bonding, thermochemistry, kinetics, equilibria, and electrochemistry. The companion laboratories focus on standard and instrumental laboratory methodologies with experiments chosen to illustrate key topics from lecture.

Prerequisite: CHEM 111

## **CHEM 200 - Laboratory Safety**

### **Credit Hours: 1**

Emphasizes "safety first" through experiment planning, including habitual attention to risk assessment and consideration of hazards for oneself, fellow workers, and the public. The course concentrates on developing a prudent attitude toward dealing with laboratory hazards and fosters a determination to make every effort to be informed about risks and reduce them to a minimum.

Prerequisite: Previous or concurrent enrollment in a laboratory science course.

## **CHEM 213 - Organic Chemistry I**

**Credit Hours: 4**

A study of the structure, properties, preparation, and reactions of different classes of organic compounds, including aliphatic hydrocarbons, alcohols, carbonyl compounds, amines, and aromatic compounds, with applications of this material to biological, environmental and industrial processes. Special emphasis is placed on reaction mechanisms and fundamental principles to gain an understanding of the basic principles of organic reactions. The laboratory stresses synthesis, isolation, and purification of carbon compounds along with qualitative organic analysis including different methods of spectroscopy.

Prerequisite: CHEM 112

## **CHEM 214 - Organic Chemistry II**

**Credit Hours: 4**

A study of the structure, properties, preparation, and reactions of different classes of organic compounds, including aliphatic hydrocarbons, alcohols, carbonyl compounds, amines, and aromatic compounds, with applications of this material to biological, environmental and industrial processes. Special emphasis is placed on reaction mechanisms and fundamental principles to gain an understanding of the basic principles of organic reactions. The laboratory stresses synthesis, isolation, and purification of carbon compounds along with qualitative organic analysis including different methods of spectroscopy.

Prerequisite: CHEM 213

## **CHEM 230 - Foundational Inorganic Chemistry**

**Credit Hours: 3**

Presents a descriptive exploration of the chemistry of inorganic compounds including the structure, bonding, and reactions of main-group molecules, an introduction to the principles of coordination chemistry, and an examination of the structures and properties of extended solids.

Prerequisite: CHEM 112

## **CHEM 235 - Environmental Chemistry**

**Credit Hours: 4**

Focuses on the study of current environmental problems including acid rain, ozone depletion, global climate change, urban air pollution, and ground water contamination. Laboratory work emphasizes concepts of special importance in environmental chemistry as well as field sampling and analysis.

Prerequisite: CHEM 112

## **CHEM 240 - Topics in Forensic Chemistry**



**Credit Hours: 1**

A presentation and discussion of forensic chemistry topics of current interest and importance. This is a seminar-style course that provides the opportunity for students to gain an understanding of the field through general readings as well as the recent literature.

Prerequisite: CHEM 111 or permission of the instructor

**CHEM 250 - Professional Development for Chemists****Credit Hours: 1**

This course will help Chemistry majors and minors navigate the professional world and prepare them for success. Students will explore careers, professional schools, internships and other professional opportunities.

Prerequisite: CHEM 112

Note: Required for all Chemistry majors and must be taken in the fall semester of the sophomore or junior years. This course is also open to Chemistry Minors as well as other science majors.

**CHEM 295 - Chemistry Research****Credit Hours: 1-4**

Provides the opportunity for investigation of research questions in the field of chemistry through laboratory and/or library research as supervised by a departmental faculty member.

Prerequisite: Permission of the department

Note: Four to five hours of work per week during the semester is equivalent to one credit hour. Does not count toward the major. Graded S/U.

Repeatability: May be repeated for credit.

**CHEM 315 - Physical Chemistry I****Credit Hours: 4**

The study of the macroscopic, microscopic, and molecular phenomena in chemical systems. Concepts of thermodynamics, kinetics, equilibrium, quantum chemistry, and spectroscopy are developed

Prerequisite: CHEM 112

Co-requisite: MATH 200, PHEN 121

**CHEM 316 - Physical Chemistry II****Credit Hours: 3**

The in-depth study of molecular phenomena in chemical systems. Concepts of atomic and molecular structure, quantum chemistry, and spectroscopy are developed. A working knowledge of computational chemistry is developed.

Prerequisite: CHEM 315

**CHEM 335 - Analytical Chemistry**

**Credit Hours: 4**

A study of the modern methods of chemical separation and analysis. In the laboratory, emphasis is placed on application of modern instrumentation to chemical problems.

Prerequisite: CHEM 315

**CHEM 355 - Advanced Laboratory in Chemistry****Credit Hours: 3**

Emphasizes thermodynamics, kinetics, quantum chemistry, and analysis through the application of modern analytical and physical techniques.

Prerequisite: CHEM 214, CHEM 315

**CHEM 418 - Biochemistry I****Credit Hours: 4**

The study of the chemistry of enzyme function and regulation, and the chemistry of metabolic pathways. Emphasis is placed on the structure-activity correlations and mechanisms of reactions, as well as on the thermodynamics and kinetics of the reactions involved. The lab portion of the course includes current techniques for isolation and analysis of biomolecules and the study of enzymatic processes.

Prerequisite: CHEM 214

**CHEM 419 - Biochemistry II****Credit Hours: 3**

The study of the biosynthesis of amino acids and proteins, nucleic acids, lipids, and carbohydrates. These are analyzed at the molecular and mechanistic level through a detailed study of structure, function, and reactions of the compounds involved.

Prerequisite: CHEM 214

**CHEM 425 - Advanced Inorganic Chemistry****Credit Hours: 4**

The study of atomic, molecular, and crystalline solid state structures of the elements, inorganic compounds, and organometallic compounds. Bonding models and applications of molecular and solid state symmetry are considered. Properties and selected modern applications such as catalysis are investigated. The lecture and laboratory emphasize a variety of chemical synthesis methods and instrumental methods of analysis.

Prerequisite: CHEM 230

Prerequisite or Corequisite: CHEM 315

**CHEM 440 - Topics in Forensic Chemistry**

**Credit Hours: 1**

A seminar-style course that examines important topics in the field in depth, through readings, discussions, and presentations.

Prerequisite: CHEM 214, CHEM 240

**CHEM 441 - Forensic Chemistry Laboratory****Credit Hours: 3**

Focuses on the practical applications of instrumentation used in a forensic laboratory for the chemical analysis of various types of physical evidence such as accelerants, explosives, paints, fibers, glass, and suspected drug substances.

Prerequisite: CHEM 240

Prerequisite or Corequisite: CHEM 214

**CHEM 445 - Topics in Modern Chemistry****Credit Hours: 1-3**

Focuses on selected special topics from the chemistry disciplines: analytical, inorganic, organic, physical, or biochemistry. The topics are chosen for their importance to modern chemistry.

Prerequisite: Completion of all curricular requirements for the Chemistry minor.

**CHEM 454 - Chemistry Seminar and Literature Research****Credit Hours: 2**

Involves comprehensive literature research on a chemistry-related topic of the student's choice, and writing of a detailed report on the findings. The course also features oral presentations, as well as the writing of a research proposal on the same topic researched in the literature. In addition, students are required to attend seminars by visiting scientists, organized by the department. All departmental faculty participate in this course.

Prerequisite: CHEM 250

Co-requisite: CHEM 355

**CHEM 455 - Chemistry Seminar and Laboratory Research****Credit Hours: 4**

An independent experience under the guidance of one or more faculty members, designed to expose students to methods of investigation and inquiry, and enhance critical thinking and problem-solving skills. The course also includes oral presentations and writing of a final scientific paper. In addition, to stay current in the field being researched, students continue the literature research begun in CHEM 454.

Prerequisite: CHEM 355, CHEM 454

Note: Students are also required to attend a weekly seminar meeting.

**CHFST 495 - Senior Seminar**

**Credit Hours: 3**

The capstone course for child and family studies majors. The student engages in an in-depth study of a topic that brings together the core and area of specialization and involves a literature review. The topic is selected in consultation with the professor.

**COMM 101 - Communication Practicum****Credit Hours: 1**

Provide laboratory or workshop experiences in speech communication, telecommunications, or interpretation.

Restrictions: maximum of two COMM practica hours per year; maximum of four COMM practica hours toward major or minor.

Note: Registration is with the department chair at final registration.

**COMM 120 - Introduction to Communication****Credit Hours: 3**

Examines concepts and the various disciplines found in communication with emphasis on the centrality of the discipline across a wide variety of contexts and its relevance to society.

Note: This course is offered as an exploratory course for first-year students or students in their first year at Muskingum.

**COMM 200 - Fundamentals of Speech Communication****Credit Hours: 3**

Develops knowledge of the basic principles, types, and theories of communication. It also provides practice in selecting and evaluating speech materials, organizing and phrasing ideas, controlling voice and body, and in critical thinking and listening. Special attention is paid to those students who may have issues with speech apprehension.

**COMM 201 - Communication Practicum****Credit Hours: 1**

Provide laboratory or workshop experiences in speech communication, telecommunications, or interpretation.

Registration is with the department chair at final registration.

Restrictions: maximum of two COMM practica hours per year; maximum of four COMM practica hours toward major or minor.

**COMM 205 - Professional Speaking****Credit Hours: 3**

This course is an extension of oral communication skills built in the fundamentals of public speaking course that focuses on successfully addressing a non-classroom audience. The Professional Speaking course provides students with the opportunities to research, design and present impromptu and extemporaneous oral communication messages in preparation for a variety of professional settings and networks.

Prerequisite: COMM 200

## **COMM 206 - Voice and Diction**

**Credit Hours: 3**

Involves intensive drill, on a phonetic basis, in articulating the sounds which make up the English language, with attention to the production of good vocal quality and expression. A study of the history of English sounds gives the student the necessary background to understand how spoken English evolved and to develop skills in use of the International Phonetic Alphabet.

## **COMM 207 - Introduction to Speech Pathology**

**Credit Hours: 3**

Introduces and emphasizes the basic principles of speech language pathologies and audiology. Students learn the causes and origins of speech, language, and audiology processes in human communication.

Prerequisite: Permission of the instructor

## **COMM 246 - Interpersonal Communication**

**Credit Hours: 3**

This course explores the processes of daily interaction dealing with all aspects of strength and weakness in communication situations. Emphasis is on significant relationships with groups, individuals, and self. Students learn to recognize themselves in interpersonal conflict situations and to cope with those problems through class interaction.

## **COMM 260 - Oral Interpretation of Literature**

**Credit Hours: 3**

Deals with the oral re-creation of literature for a specific audience, placing the interpreter as intermediary between the author's intent and the needs of the listener. The interpreter may choose to work with prose, poetry, non-fiction prose or drama.

## **COMM 301 - Communication Practicum**

**Credit Hours: 1**

Provide laboratory or workshop experiences in speech communication, telecommunications, or interpretation.

Restrictions: maximum of two COMM practica hours per year; maximum of four COMM practica hours toward major or minor.

Note: Registration is with the department chair at final registration.

## **COMM 315 - Argumentation**

**Credit Hours: 3**

Explores the reasoning process in both theory and practice. Students develop both sides of an argument in classroom debates. A written brief is prepared on a contemporary question which has been researched and debated in class.

Prerequisite: COMM 200

## **COMM 316 - Intercollegiate Forensics**

**Credit Hours: 2**

Teaches various aspects of speech competition. Students learn how to compete in public address, oral interpretation, limited preparation events, and debate.

Prerequisite: Permission of instructor

Repeatability: May be repeated with a maximum of 6 hours counted toward the major, ten toward graduation requirements.

## **COMM 320 - Introduction to Popular Culture**

**Credit Hours: 3**

Teaches students about the history, evolution, current trends and practices in United States popular culture. The course emphasizes readings and research that deal with the definition of popular culture, genres of popular culture, history of the discipline of popular culture, as well as the topics of race, gender, body images, celebrities, sports, rituals, formulas, stereotypes, and the myths and beliefs associated with popular culture in the United States.

## **COMM 325 - Communication Theory**

**Credit Hours: 3**

Examines major theories of communication studies in terms of requirements for theory, theory development and associated research and application.

## **COMM 328 - Health Communication**

**Credit Hours: 3**

This course explores the concept of health communication, while also emphasizing medical models of communication, patient-provider communication, diversity in healthcare, cultural conceptions of health and illness, gender issues in health and illness, social support, health images in the media, family and end-of-life communication, planning health promotion campaigns, and careers in healthcare and health communication. Additional emphasis is placed on how these topics are best understood as embedded in the American culture and the influence that communication has in health-related environments.

## **COMM 330 - Communication, Sports, and America**

**Credit Hours: 3**

This course explores the processes of communication in multiple sport environments, including sport fan cultures, sport and mythology, gender communication in sport, race and ethnicity in sport, politics and nationalism in sport, performing identity in sport, family communication and sport, and crisis communication in sports organizations.

Emphasis is placed on how these topics are best understood as embedded in the American culture and the influence that sport has on communication processes in multiple contexts.

### **COMM 335 - Small Group Communication**

**Credit Hours: 3**

Examines the principles and forms of small group interaction with emphasis on problem solving and cooperative and reflective thinking.

### **COMM 340 - Gender Communication**

**Credit Hours: 3**

Focuses on gender issues in the field of communication. Specific areas that are studied include the history of men's and women's movements, gender-related theories, and gender differences in various areas, such as nonverbal communication, verbal communication, interpersonal communication, music videos, advertising, film and television.

### **COMM 345 - Interviewing**

**Credit Hours: 3**

Provides instruction and practice in the forms of communication most often utilized in the business and professional world. Emphasis is divided between eliciting and providing information in settings most common to the business and professional world.

### **COMM 355 - Organizational Communication**

**Credit Hours: 3**

Introduces theoretical and practical approaches to communication within an organization. The course emphasizes the history of communicating in business settings and possible choices for approaches to communicating with others in professional venues.

### **COMM 360 - Research Methods**

**Credit Hours: 3**

Develops the research skills necessary to complete the senior communication research project. Open to communication majors and minors in the spring of their first or second year.

Prerequisite: COMM 325 or theatre major

### **COMM 395 - Special Topics in Communication**

**Credit Hours: 3-6**

Provides the opportunity to study selected areas, such as popular culture, storytelling, and communication technologies.

Repeatability: Maybe repeated once for credit as content changes.

## **COMM 401 - Communication Practicum**

### **Credit Hours: 1**

Provide laboratory or workshop experiences in speech communication, telecommunications, or interpretation.

Restrictions: maximum of two COMM practica hours per year; maximum of four COMM practica hours toward major or minor.

Note: Registration is with the department chair at final registration.

## **COMM 495 - Seminar**

### **Credit Hours: 3**

Exposes students to an intensive study in a selected area of emphasis. The first four weeks are devoted to the development of a project prospectus. The remainder of the semester is given to independent study under the guidance of an appropriate instructor.

Prerequisite: COMM 360

## **CPSC 100 - Introduction to Computer Science**

### **Credit Hours: 3**

Presents an overview of fundamental computer science topics and an introduction to computer programming. Overview topics include an introduction to computer science and its history, computer hardware, operating systems, digitization of data, computer networks, Internet and the Web, security, privacy, AI, and databases. This course also covers variables, operators, while loops, for loops, if statements, top down design (functional decomposition), use of an IDE, debugging, and arrays.

## **CPSC 111 - Computer Science I**

### **Credit Hours: 3**

Provides more in-depth programming, including software engineering topics such as unit testing and the use of version control. Basic data structures covered include arrays, lists, sets, and maps. Basic algorithm efficiency concepts are covered along with simple searching and sorting. Other techniques such as graphical user interface programming, exceptions, recursion, designing classes (no inheritance), file input/output are covered. Design techniques such as encapsulation and UML diagramming are covered.

Prerequisite: CPSC 100

## **CPSC 120 - Computer Applications**

### **Credit Hours: 1**

Consists of a series of projects to explore the use of specific application software packages.

Prerequisite: CPSC 100 or equivalent

## **CPSC 211 - Computer Science II**



**Credit Hours: 3**

Provides yet more in-depth programming, including software engineering topics, such as Model-View-Controller design and more formalized unit testing. Additional data structures covered include stacks, queues, priority queues, trees, graphs, and hash tables. Object-oriented programming is introduced, along with associated UML diagramming techniques. Java Generics are covered.

Prerequisite: CPSC 111

**CPSC 220 - Applied Computer Programming****Credit Hours: 3**

Studies with each offering a particular computer programming language (e.g., C++, Python, PHP, COBOL, Java, and Perl) and the applications in which that language is traditionally used.

Prerequisite: CPSC 111 or permission of instructor

**CPSC 230 - Systems Programming****Credit Hours: 3**

Provides an understanding of the interface between computer hardware and software. The course covers computer hardware, activation records and address spaces, a practical assembly language (like ARM), writing C programs, how C code is compiled into assembly level programs, and how these programs are compiled, linked, and loaded into memory. This course also provides an understanding of Linux/Unix administration fundamentals, including user creation, permissions, installations from source, and simple server configuration.

Prerequisite: CPSC 111

**CPSC 320 - Algorithm Analysis****Credit Hours: 3**

Examines formal concepts of algorithm efficiency including Big O, Theta, and NP theory. Algorithmic techniques studied include brute force, simulation, divide and conquer, dynamic programming, greedy algorithms, backtracking, branch and bound, and parallel algorithms. Time and space efficiency is analyzed from a practical and theoretical viewpoint throughout this course. Advanced searching and sorting techniques are covered. Classic algorithms and their relevance to real problems are examined. Typical data structures used as examples include hash tables, trees, and graphs. Parallel programming is explored.

Prerequisite: CPSC 211, MATH 250

**CPSC 335 - Computer Security****Credit Hours: 3**

Covers operating system and network level security topics. Typical application level attacks such as buffer overruns are analyzed and solutions covered. This course includes basic coverage of TCP/IP and cryptography in the context of network security. Typical network attacks such as denial-of-service, spoofing, etc. are covered, as are systems administration level analysis of possible attacks and intrusions via Linux logs.

Prerequisite: CPSC 230

## **CPSC 340 - Programming Languages**

**Credit Hours: 3**

Develops the concepts of language structure and uses these as a basis for comparing several languages. Formal language definitions are introduced, and the concepts of syntax, semantics, and pragmatics are discussed. The emphasis is on languages with inherently different programming paradigms than students have been exposed to in other courses.

Prerequisite: CPSC 211

## **CPSC 345 - Mobile Application Development**

**Credit Hours: 3**

Practices the development of mobile applications. Design considerations specific to mobile applications are covered, including limited resources, battery life, intermittent connectivity, etc. Also covered are the networking concepts needed to connect mobile applications to web-based servers, and to use third party APIs such as Google Maps, location-based programming, etc. Projects are done in the context of one or more popular mobile platforms, such as Android and iOS.

Prerequisite: CPSC 230, CPSC 365

## **CPSC 350 - Computer Architecture**

**Credit Hours: 3**

Studies the theoretical and practical design principles of computer organization. The performance effects of pipelining, superscalar design, VLIW, and parallel processing are examined.

Prerequisite: CPSC 211

## **CPSC 365 - Web Applications and Database Management Systems**

**Credit Hours: 3**

Studies and practices the development of dynamic data-driven web applications, in the context of the languages and technologies used in typical shared hosting environments. Topics include database design, including entity-relationship modeling and normalization, designing and implementing data models for a web application, developing the server side code necessary to interact with that data model, developing the web pages for the application, and an introduction to the use of dynamic scripting on the client side. Web application security is covered throughout.

Prerequisite: CPSC 111

## **CPSC 400 - Programming Projects**

**Credit Hours: 1**

Enables students to design, implement, and test a program of their own choosing. Proposed projects are approved by a

faculty member who then meets with the student on a weekly basis. A final report is prepared and presented at the completion of the project.

Prerequisite: Permission of the instructor

Repeatability: The course can be repeated once for credit.

## **CPSC 430 - 3D Game Programming**

**Credit Hours: 3**

Examines the basic issues in 3D rendering and collision detection and associated algorithms, suitable for programming a 3D game engine. Students explore data structures used for 3D games. Basic artificial intelligence techniques used in games are also covered in the context of a 3D game engine.

Prerequisite: CPSC 320, MATH 230

## **CPSC 450 - Operating Systems**

**Credit Hours: 3**

Examines the major operating system concepts in the context of modern operating systems such as UNIX, Linux, and Windows. Topics include process management, synchronization, memory management, file systems, protection and security. Topics are examined from both the operating system and programmer perspectives. In addition, the course discusses more advanced system administration topics.

Prerequisite: CPSC 230, CPSC 320

## **CPSC 455 - Software Engineering**

**Credit Hours: 3**

Formalizes the software engineering topics covered in previous courses, in the context of what would be required in a real-world corporate environment. Typical software development methodologies are discussed (e.g. waterfall, agile, test-driven design, etc.). UML Diagramming are covered. Students work in teams, analyze requirements, participate in code reviews, etc. Human Computer Interaction fundamentals are covered, along with ethical and social issues related to the business of computing. The different roles involved with large scale development are discussed.

Prerequisite: CPSC 211

## **CPSC 480 - Computer Networks**

**Credit Hours: 3**

Examines the fundamental aspects of computer networks. Topics include layered network architecture, application level protocols, transport protocols, routing and flow control mechanisms, data link protocols, wireless networks, protocol design, and client-server programming. In addition, this course introduces techniques for designing and building a complex computer network.

Prerequisite: CPSC 230, CPSC 320

## **CPSC 490 - Advanced Topics in Computer Science**

**Credit Hours: 3**

Is a study of a specialized topic in the computing field, such as Animation, Pattern Recognition, Networking, Theory of Computation, Alife, or advanced study of a particular language (such as Java, C++, Perl, or VRML)

Prerequisite: Permission of the instructor

**CPSC 495 - Computer Science Seminar**

**Credit Hours: 1**

Provides a weekly discussion of new advances in the field of computer science and their effects on society. Presentations are given by invited speakers, faculty, and students.

Prerequisite: Permission of the instructor

Repeatability: The course can be repeated once for credit.

**CRMJ 101 - Introduction to Criminal Justice**

**Credit Hours: 3**

Serves as a broad overview to the criminal justice field by examining such topics as criminal behavior and law enforcement, the court system and judicial processes, and corrections and rehabilitation.

**CRMJ 230 - American Law Enforcement**

**Credit Hours: 3**

Discusses the philosophy and history of policing, the different types of police agencies, and the framework in which law enforcement agencies must work, as well as the relationship between police agencies and their communities.

Prerequisite: CRMJ 101

**CRMJ 240 - Introduction to Research Methods**

**Credit Hours: 3**

This course covers the basics of a cross-section of research methods used in Criminal Justice, Political Science, and the other sciences. The research methods covered include a basic quantitative method, a qualitative method, and components of conducting a literature review. Students will learn problem formulation, hypothesis construction, and hypothesis testing. The course emphasizes the consumption of social science research and research methods skill development to be used in upper level Criminal Justice and Political Science courses.

Cross Listed As: POLS 240.

**CRMJ 250 - American Courts**

**Credit Hours: 3**

Focuses on the legal concepts comprising the foundation of the American criminal court process, state and federal court systems, courts of limited and general jurisdiction, the actors within the court system, and the role of the courts on the

other members of the criminal justice system.

Prerequisite: CRMJ 101

## **CRMJ 270 - American Corrections**

### **Credit Hours: 3**

Uses a sociological perspective to examine the history, institutions, and practice of American corrections; specifically, issues of incarceration, probation, prisoner release, and criminal justice are covered.

Prerequisite: CRMJ 101

Cross Listed As: SOCI 270.

## **CRMJ 331 - Criminal Investigation**

### **Credit Hours: 3**

Focuses on the methods of crime scene searches and documentation; physical evidence collection and preservation; information gathering; interviews and interrogations and case preparation.

Prerequisite: CRMJ 101 and CRMJ 230

## **CRMJ 340 - Organized Crime**

### **Credit Hours: 3**

Focuses on illegal organizations (e.g., the Mafia), whose formally organized activities are used to gather money through criminal enterprises and how they impact American society, including the social and economic effect on society, along with law enforcement efforts to minimize that impact.

## **CRMJ 342 - Criminology**

### **Credit Hours: 3**

Examines various theories of crime causation, their history and development, and related crime control policies and practices. It also addresses the extent of crime in society, types of crime, and crime measurement issues. Emphasis is on the social context of crime and supportive evidence of various theoretical perspectives.

Prerequisite: CRMJ 101

## **CRMJ 344 - Criminal Procedure and Law**

### **Credit Hours: 3**

Involves the convergence of law enforcement, courts, legislation, and the Constitution. Students study constitutional rights of individuals and limitations on police authority as interpreted by the courts. Additionally, students study crime definitions and elements of crime as written by legislatures and interpreted by courts. Substantive law of Ohio is emphasized.

Cross Listed As: POLS 313

## **CRMJ 372 - Juvenile Justice**

### **Credit Hours: 3**

Examines the juvenile justice system, including differences between the adult justice system based on values, court decisions and laws. The concepts of delinquency and delinquency control are discussed, as well as the roles of law enforcement, courts, and corrections in the juvenile justice system.

## **CRMJ 373 - Community Corrections and Intermediate Sanctions**

### **Credit Hours: 3**

Examines the policies, procedures, practices, and personnel involved in community-based corrections. Alternatives to incarceration are emphasized in their historical, philosophical, social, and legal contexts. Students discuss current issues and trends in this growing area of the criminal justice system.

Prerequisite: CRMJ 101

## **CRMJ 376 - Child Maltreatment**

### **Credit Hours: 3**

Examines the typologies and complexities of child maltreatment. Students investigate the development of the modern child welfare system as well as risk factors for and consequences of child maltreatment. Different forms of child maltreatment - including physical abuse, neglect, sexual abuse, fetal abuse, and Munchausen by Proxy Syndrome - are examined. Students explore mandated reporting requirements, investigating maltreatment reports, court proceedings, and forensic interviewing of children.

## **CRMJ 390 - Topics in Criminal Justice**

### **Credit Hours: 3**

Provides students with a semester-long intensive study of a topic in criminal justice under the supervision of department faculty.

## **CRMJ 396 - Applied Research Methods in Criminal Justice**

### **Credit Hours: 3**

This course introduces the concepts involved in social science research, with a focus on criminal justice and criminological issues. Students develop an understanding of the methods and techniques used to describe, explain, predict and evaluate research issues. Emphasis is placed on developing informed consumers of research.

Note: Must have junior standing.

MAP Only: X

## **CRMJ 490 - Senior Seminar**

### **Credit Hours: 3**

Students in this team-taught course complete a mini-research project (individual or team-based depending on the type

of research being conducted) for each of the four interrelated topics, and practice multiple ways of conducting research and answering questions. The unifying theme is the integration of knowledge. Students approach problems from different disciplinary perspectives, solve them in differentiated ways, and demonstrate how the knowledge they have gained in their major courses can be applied in multiple and diverse settings.

Prerequisite: CRMJ 240 or POLS 240

### **CRMJ 491 - Student/Faculty Collaborative Research in Criminal Justice**

**Credit Hours: 3**

Students work directly with a faculty member on a professional project that will result in a product that engages with the professional community. The final project/paper will list both the faculty member and the student(s) as co-authors.

Prerequisite: Instructor permission only

### **CVSC 231 - Conservation Science Discussion**

**Credit Hours: 1**

Presentation and discussion of important conservation issues in conservation science.

Note: Conservation science majors must take this course or CVSC 431 at least once.

Repeatability: May be repeated for credit.

### **CVSC 331 - Conservation Biology**

**Credit Hours: 4**

Provides an in-depth examination of the major issues and challenges that define Conservation Science. The course places a great deal of emphasis on exploring the role and limitations of science in addressing contemporary conservation problems.

Note: The course design includes lecture, laboratory, and field trips.

### **CVSC 431 - Topics in Conservation Science**

**Credit Hours: 1**

Seminar course that uses readings from recently published articles and focused discussion to explore important conservation issues.

Note: Conservation science majors must take this course or CVSC 231 at least once.

Repeatability: May be repeated for credit.

### **CVSC 437 - Conservation Science Research Seminar I**

**Credit Hours: 3**

Involves a discussion of a series of scientific papers covering a conservation topic. In addition, students search the biological literature related to the topic, prepare two literature reviews, and submit a scholarly research proposal at the

end of the semester.

Prerequisite: CVSC 331 or permission of instructor

### **CVSC 438 - Conservation Science Research Seminar II**

**Credit Hours: 2**

Involves field, laboratory, or library research on a conservation problem.

Prerequisite: CVSC 437

### **CVSC 439 - Conservation Science Research Seminar III**

**Credit Hours: 2**

Involves field, laboratory, or library research on a conservation problem.

Prerequisite: CVSC 438

### **DMD 101 - Digital Media Design Practicum**

**Credit Hours: 1**

Provides laboratory or workshop experiences in digital media design.

Restrictions: maximum of two DMD practica hours per year. Does not count toward the requirement of the DMD major.

### **DMD 201 - Digital Media Design Practicum**

**Credit Hours: 1**

Provides laboratory or workshop experiences in digital media design.

Restrictions: maximum of two DMD practica hours per year. Does not count toward the requirement of the DMD major.

### **DMD 301 - Digital Media Design Practicum**

**Credit Hours: 1**

Provides laboratory or workshop experiences in digital media design.

Restrictions: maximum of two DMD practica hours per year. Does not count toward the requirement of the DMD major.

### **DMD 395 - Topics in Digital Media Design**

**Credit Hours: 3**



Provides the opportunity for upper level students to study advanced areas in digital media not offered as formal courses. Such topics could include, but are not limited to, dynamic website design, web 2.0 applications, and game design.

### **DMD 398 - Directed Design Project**

**Credit Hours: 3**

Gives students the opportunity to propose, plan and execute a client-based project in design. Projects can include, but are not limited to, graphic and logo design, website design and implementation, or interactive applications. The classroom component covers workplace communication, negotiation of expectations and deadlines, and evaluation of outcomes. The workplace component includes client meetings and in-studio work hours.

Prerequisite: MEDIA 300, ART 170, or permission of the instructor.

### **DMD 399 - Internship**

**Credit Hours: 3**

Involves a supervised experience in the student's major. The program is closely supervised by faculty members and an on-site director. Credit in 399 counts as 3 of the 16 internship hours which may be applied to graduation requirements. Graded S/U.

Prerequisite: Junior standing, 2.5 GPA and instructor permission.  
Cross Listed As: JOURN 399, MEDIA 399, PBRL 399.

### **DMD 400 - Principles of Interactive Design**

**Credit Hours: 3**

Provides a survey of research literature surrounding the emergent concept of interactivity in mediated environments. Students develop awareness of the opportunities and complexities that interactive potential can add to traditional media designs. Emphasis is placed on identifying and meeting the needs of the end-user when developing interactive experiences. Students have the opportunity to use multimedia software applications to present their designs.

Prerequisite: MEDIA 300

### **DMD 401 - Digital Media Design Practicum**

**Credit Hours: 1**

Provides laboratory or workshop experiences in digital media design.

Restrictions: maximum of two DMD practica hours per year. Does not count toward the requirement of the DMD major

### **DMD 495 - Seminar**

**Credit Hours: 3**

Exposes students to an intensive study in a selected area of emphasis. The first four weeks are devoted to the

development of a project prospectus. The remainder of the semester is given to independent study under the guidance of an appropriate instructor.

Prerequisite: DMD 400

## **ECON 215 - Principles of Microeconomics**

**Credit Hours: 3**

Concentrates attention on the determination of prices for goods and factors of production.

## **ECON 216 - Principles of Macroeconomics**

**Credit Hours: 3**

Presents a general description of the American economy and the theory of income determination and income fluctuations.

Prerequisite: ECON 215

## **ECON 311 - Money and Banking**

**Credit Hours: 3**

Examines the role of money in the economy, the instruments of monetary and fiscal policy, and the techniques of commercial banking, the Federal Reserve System, interest rates and institutions affecting the money market.

Prerequisite: ECON 215, ECON 216

## **ECON 314 - Public Finance**

**Credit Hours: 3**

Surveys government income, expenditures, and transfer payments at the local, state, and national levels. Particular attention is given to fiscal policy, problems of taxation and incentives, and principles of debt management.

Prerequisite: ECON 215, ECON 216 or permission of instructor

## **ECON 333 - Intermediate Microeconomic Theory**

**Credit Hours: 3**

Develops the methodology of economics and uses this to provide explanations about pricing of commodities and employment of factor services under conditions of full employment.

Prerequisite: ECON 215, ECON 216

## **ECON 334 - Intermediate Macroeconomic Theory**

**Credit Hours: 3**

Examines the relationships among the aggregate markets for commodities, money, bonds, and labor. Emphasis is placed on analytical explanations for the determination of national income, output, employment, interest rates, and the price level.

Prerequisite: ECON 215, ECON 216

### **ECON 361 - International Trade**

**Credit Hours: 3**

Examines the reasons for and gains from trade among nations, as well as the impact of trade restrictions.

Prerequisite: ECON 215, ECON 216, or permission of instructor

### **ECON 362 - International Finance**

**Credit Hours: 3**

Examines monetary exchange rates, the balance of payments, capital flows, and the impact of international activity on domestic economies.

Prerequisite: ECON 215, ECON 216, or permission of instructor

### **ECON 411 - Topics in Economics**

**Credit Hours: 3**

Provides the advanced student an opportunity to study selected topics in economic theory.

Prerequisite: ECON 215, ECON 216

Repeatability: The course may be repeated as the subject matter changes.

### **ECON 423 - Contemporary Issues**

**Credit Hours: 3**

Covers current issues in macroeconomic or microeconomic policy, with emphasis changing with each offering. Students are given the opportunity to explore applications of basic economic theory and models to help understand such issues as monetary policy, the role of the Federal Reserve, tax policy, unemployment, social security, and Medicare reform. A specific list of subjects to be covered will be made available with each course listing.

Prerequisite: ECON 215, ECON 216

### **ECON 425 - Econometrics**

**Credit Hours: 3**

Involves the empirical testing of economic hypotheses using, primarily, linear regression. The results can be used to determine how closely theory corresponds to observed behavior, to investigate which theories best explain behavior and to forecast what future conditions may produce. This course is designed to introduce students to basic econometric techniques. Possible remedies to the most frequently encountered problems are also discussed.

Prerequisite: A minimum grade of C in BUSI 325

## **ECON 435 - Government and Business**

**Credit Hours: 3**

Considers the role of government in the American economy and examines contemporary governmental policies toward the private sector of the economy from both a legal and an economic viewpoint. The main topics are the enforcement of anti-trust in the unregulated sector and the improved regulation of industries subject to government controls.

Prerequisite: ECON 215, ECON 216, or permission of instructor

## **ECON 495 - Seminar**

**Credit Hours: 3**

Enables the student to pursue an approved research project in economic theory.

Prerequisite: ECON 333

## **EDUC 101 - Observe and Reflect Practicum**

**Credit Hours: 1**

This is a clinical field experience course required for teacher education licensure. Students will work with a partner school to explore the structure and organization of local school agencies, observe the creation and importance of school culture and climate, discuss the roles and responsibilities of various individuals reporting to the school each day, and participate in curricular and extracurricular activities designated by the partner site. A valid background check is required.

## **EDUC 110 - Introduction to Education**

**Credit Hours: 1**

This course studies the purposes and practices of education, helping students determine whether they wish to become professional teachers. Topics include history of education, careers in education, motivation and discipline, analysis of teacher behavior, organization and goals of schools, the teacher, and the law.

## **EDUC 112 - Educational Implications of Diversity**

**Credit Hours: 3**

Presents a picture of the increasing diversity found within educational institutions and the implications it has for educators in developing both policy and practice.

Prerequisite or Corequisite: EDUC 110, or child and family studies major, or MUSC 181.

Note: Required field experience: 12 hours of observation and 10 hours of tutoring.

## **EDUC 201 - Observe, Assist, Tutor, and Remediate Practicum**

**Credit Hours: 1**

This is a clinical field experience course required for teacher education licensure. Students will work with a partner school to observe instruction in a variety of contexts and grouping patterns. Students will have the opportunity to work with students with a variety of ability levels and subject areas. Students are expected to observe and apply concepts from education coursework to assist the teacher, tutor, and remediate students as directed by the field teacher(s)

Prerequisite: EDUC 101

**EDUC 211 - Individual Topics****Credit Hours: 1-3**

Is a supervised clinical field, research, or independent study in education under the direction of a faculty member. It is designed to enable students to have learning experiences that extend beyond required coursework. The course requires periodic meetings with the course instructor, the writing of a journal, and a final written report, in addition to 30-35 hours of field or clinical work for each credit hour.

Prerequisite: EDUC 110, EDUC 112

**EDUC 215 - Educational Psychology****Credit Hours: 3**

This course is the study of how individuals learn by drawing on and combining various psychological theories and principles to improve teaching and learning. This course will examine the scientific study of human learning from both the cognitive and behavioral perspectives. It promotes the understanding of individual differences, intelligence, development, affect, motivation, self-regulation and self-concept. Educational psychology helps future teachers create a positive socio-emotional climate for effective learning.

**EDUC 220 - Mathematics Content for Early Childhood and Intervention Specialist Teachers****Credit Hours: 3**

Develops knowledge and skills in number sense, measurement, data, statistics, probability, algebra, and geometry concepts that relate to the K-12 Ohio Learning Standards in mathematics.

**EDUC 301 - Teach Large Groups, Tutor, Remediate, and Accelerate Practicum****Credit Hours: 1**

This is a clinical field experience course required for teacher education licensure. Students will work with a partner school to learn how to implement evidence-based strategies, content techniques, and high leverage practices in various settings. Students are expected to design and lead individual, small group, and whole class instruction with the guidance of the coordinating teacher and faculty mentor(s). A valid background check is required.

Prerequisite: EDUC 201

**EDUC 309 - Early Childhood Education and Curriculum**

**Credit Hours: 3**

Provides students with the historical, philosophical, psychological, and social foundations of early childhood education. It also provides the curricular and instructional framework for providing meaningful, developmentally appropriate learning experiences, and accommodations for diverse populations of children in grades PreK to 5. This course includes direct interaction with both typically and atypically developing preschoolers.

Co-requisite: EDUC 201

Prerequisite or Corequisite: PSYC 205, PSYC 220

Note: Required field hours: 10.

**EDUC 311 - Individual Topics****Credit Hours: 1-3**

Is a supervised clinical field, research, or independent study in education under the direction of a faculty member. It is designed to enable students to have learning experiences that extend beyond required coursework. The course requires periodic meetings with the course instructor, the writing of a journal, and a final written report, in addition to 30-35 hours of field or clinical work for each credit hour.

Prerequisite: EDUC 110, EDUC 112 and admission to the teacher education program.

**EDUC 312 - Developmentally Responsive Middle Schools****Credit Hours: 3**

Provides comprehensive understanding of the nature and needs of early adolescents in grades 4-9 with an emphasis on applying this knowledge to the classroom and the total school environment. The course focuses on characteristics of developmentally responsive schools for young adolescents, as well as the rationale that supports such characteristics. Topics include interdisciplinary teaming, teacher guidance programs, grouping and scheduling concerns, curriculum, pedagogy assessment strategies for culturally and developmentally diverse students, and the application of educational technology.

Prerequisite: Admission to the teacher education program

Co-requisite: EDUC 301

Note: Required field hours: 20

**EDUC 313 - Curriculum and Instruction for the Adolescent****Credit Hours: 3**

Provides a foundation in curriculum and instruction for adolescent and young adults with emphasis on motivation, instructional planning, classroom structure, management, discipline, models of teaching, assessment, and learning styles.

Prerequisite: Admission to the teacher education program

Co-requisite: EDUC 301

Note: Required field hours: 20.

**EDUC 314 - Multi-Age Curriculum and Instruction**

**Credit Hours: 3**

Provides a foundation in curriculum and instruction for teachers of multi-age subject areas, i.e., foreign language, music, physical education and visual arts.

Co-requisite: EDUC 201

Note: Required field hours: 30.

**EDUC 315 - The Arts in Early Childhood****Credit Hours: 3**

Is designed to provide the knowledge, skills, and dispositions required to effectively integrate art, music, movement, and theater into developmentally appropriate curriculum and instruction for young children. The course balances theory and practice, presenting the arts both as a means of enhancing the development of young children, and as the promotion of creativity and exploration.

Prerequisite: EDUC 309

**EDUC 316 - Children's Literature****Credit Hours: 3**

Involves the study of classic and contemporary children's literature in a variety of genres. Emphasis is placed on the selection and use of high-quality and developmentally-appropriate materials to support the reading process.

Prerequisite: Admission to the teacher education program

**EDUC 330 - Serving Individuals with Exceptionalities****Credit Hours: 3**

Investigates the nature and needs of individuals with exceptionalities across the lifespan, the etiologies of different exceptionalities, the identification process, and the continuum of placement and service alternatives. An emphasis is placed on the need of the intervention specialist to collaborate with other professionals to develop individualized education programs that enable learners to be successful in their least restrictive environments and to access services needed for learner independence. Ten hours of clinical experiences with individuals with different exceptionalities are required.

Prerequisite: EDUC 110 and admission to the teacher education program

Co-requisite: EDUC 201

**EDUC 334 - Family-Centered Practices****Credit Hours: 3**

Develops the knowledge and skills needed to provide appropriate educational opportunities for children in the context of family, community, and social service structures. This course emphasizes the development of communication and collaboration skills needed to interact effectively with parents, family services, and community agencies and to provide transition services across age levels. Technologies designed to promote successful communication are utilized. Also included are direct interactions with students with disabilities and their families as well as with community agencies and school-based programs serving students grades PreK to 5 through specific field experiences.

Prerequisite: EDUC 309, EDUC 330, or Child and Family Studies major.

Co-requisite: EDUC 201

Field Hours Requirement: Required field experience: 20 hours.

## **EDUC 335 - Educational Technology**

### **Credit Hours: 3**

Develops knowledge and skills to integrate technology effectively into the classroom to support teachers in instruction, delivery, assessment, intervention and adaptation. This course is based on the National Education Technology Standards and the Ohio Technology Academic Content Standards.

Prerequisite: EDUC 110 and admission to the teacher education program

## **EDUC 340 - Nature and Needs of Students with Disabilities**

### **Credit Hours: 3**

Provides an in-depth examination of the state and federal legislation, policies, and procedures that define the field of special education. The learning, emotional, behavioral, adaptive, and medical characteristics and needs of students with disabilities and dual exceptionalities are explored in detail. Learner strengths and challenges are addressed from a variety of perspectives, with emphasis placed on assistive technology, English language learning, access to the general curriculum, lifelong learning, and personal advocacy.

Prerequisite: EDUC 330

Co-requisite: EDUC 301

Field Hours Requirement: Required field experience: 20 hours.

## **EDUC 341 - Assessment in Education**

### **Credit Hours: 3**

Explores the variety of roles that assessment plays in P-12 education. The course includes basic assessment principles, response to intervention (RTI), quantitative data analysis, the assessment teaching cycle, formative and summative assessment. Value-added dimensions of assessment are presented and related to candidates' licensure areas and the Ohio Teacher Education System (OTES). Also addressed are aspects of assessment related to providing inclusive services to students with exceptionalities, including making accommodations and modifications and using relevant assistive technology

Prerequisite: Admission to the teacher education program

Prerequisite or Corequisite: EDUC 330

Field Hours Requirement: Required field experience: 20 hours.

## **EDUC 362 - Integrating Language Arts and Social Studies in Early Childhood**

### **Credit Hours: 3**

Develops the knowledge and skills necessary to provide effective instruction based on Ohio's Learning Standards in language arts and social studies to diverse populations of children in grades PreK to 5 in inclusive settings.

Prerequisite: Admission to the teacher education program and EDUC 309 or EDUC 314 for special education



programs.

Co-requisite: EDUC 301

Field Hours Requirement: Required field experience: 10 hours.

## **EDUC 366 - Mathematics in Early Childhood Education**

### **Credit Hours: 3**

Develops the knowledge and skills necessary to provide developmentally appropriate and effective instruction based on Ohio's Learning Standards in math to diverse populations of children in grades PreK to 5 in inclusive settings.

Prerequisite: Admission to the teacher education program and EDUC 309 or EDUC 314 for special education majors.

Co-requisite: EDUC 301

Field Hours Requirement: Required field experience: 10 hours.

## **EDUC 367 - Science in Early Primary Education**

### **Credit Hours: 3**

Develops the knowledge and skills necessary to provide developmentally appropriate and effective instruction based on the Ohio Academic Content Standards in science to diverse populations of young children in inclusive settings.

Prerequisite: Admission to the teacher education program and EDUC 309 (or EDUC 309 or EDUC 312 or EDUC 313 or EDUC 314 for special education majors).

Co-requisite: EDUC 301

Field Hours Requirement: Required field experience: 10 hours.

## **EDUC 368 - Integrated Sciences for Early Childhood Instruction Grades 4-5**

### **Credit Hours: 3**

The purpose of this course is to prepare individuals with the knowledge and skill to be able to effectively instruct science in grades 4-5. Teacher candidates will be able to tailor science instruction for learners with disabilities, English language learners and gifted students

Prerequisite: EDUC 367

Field Hours Requirement: Required field experience: 20 hours.

## **EDUC 370 - Phonics and the Process of Reading**

### **Credit Hours: 3**

This course provides a scientifically based foundation on literacy and language development to teach the fundamental principles of language structure. The course presents research foundations needed to understand how reading develops and effective methods and strategies used to teach literacy skills to young children through young adults. The course presents two of the key components of reading instruction (phonemic awareness and phonics) and an introduction to essential elements of effective literacy instruction to teach key knowledge and skills in the reading process as grounded in the science of reading. Students also explore the correlation between these essential components of reading and research-based instructional methods for diverse learners.

Prerequisite: Admission to the teacher education program

## **EDUC 371 - Emergent through Adolescent Literacy**

**Credit Hours: 3**

This course focuses on the research, theories, and methods used for supporting language arts and literacy development across grades PK-12. Specific emphasis is placed on key scientifically based reading foundations that provide effective instruction and intervention strategies for emergent, beginning, and adolescent readers with diverse learning needs. Candidates explore research-based teaching strategies and curriculum that require a balance of literacy instruction formats. Additional emphasis is placed on strategies and techniques for strengthening writing skills of diverse learners and the integration of educational technology.

Prerequisite: EDUC 370

Co-requisite: EDUC 301

Field Hours Requirement: Required field experience: 10 hours.

## **EDUC 372 - Reading Methods for Middle Childhood**

**Credit Hours: 3**

Focuses on the research, methods, and materials appropriate for teaching reading to diverse learners in grades 4-9. Emphasis is on integrated curriculum strategies including knowledge, selection, and use of high quality children's literature. Includes use of phonics and word study instruction as appropriate for the young adolescent reader, as well as study of the nature of the English language.

Prerequisite: EDUC 370

Field Hours Requirement: Required field experience: 20 hours.

## **EDUC 375 - Professional Practices in Mathematics**

**Credit Hours: 3**

Focuses on participation in professional mathematics organizations, the use of technology in the mathematics classroom, mathematics education research including best practices, and Euclidean geometry.

Prerequisite: Admission to the teacher education program

## **EDUC 378 - Diagnostic and Corrective Math Methods**

**Credit Hours: 3**

This course provides ISMM pre-service candidates a survey of diagnostic and corrective methods based on typical student error patterns in the field of mathematics. This course will focus on topic development, error patterns, diagnosing conceptual misunderstandings, and assessment in mathematics.

## **EDUC 382 - Social Studies Methods for Middle Childhood Educators**

**Credit Hours: 3**

Develops knowledge and skills necessary to provide instruction based on national social studies standards and state curriculum models for students in grades 4-9, with an emphasis on the use of a variety of instructional approaches for culturally and developmentally diverse classrooms. The course prepares students to utilize approaches to teaching and

learning which integrate content relevant to students' lives, honor individual differences, and teach basic skills of inquiry and communication, including the application of educational technology.

Prerequisite: EDUC 309 or EDUC 312 (or EDUC 313 or EDUC 314 for special education majors)

Co-requisite: EDUC 301

Field Hours Requirement: Required field experience: 20 hours.

## **EDUC 383 - Language Arts Methods for Middle Childhood Educators**

### **Credit Hours: 3**

Develops knowledge and skills necessary to provide instruction based on national language arts standards and state curriculum models for students in grades 4-9 with an emphasis on use of a variety of instructional approaches appropriate for culturally, linguistically, and developmentally diverse classrooms. The course prepares students to utilize approaches to teaching and learning which integrate reading, speech, writing, and literature with the broader curriculum, develop literacy skills relevant to students' lives, honor individual differences, and teach basic skills of communication, including the application of education technology.

Prerequisite: EDUC 312 (or EDUC 309 or EDUC 313 or EDUC 314 for special education majors)

Co-requisite: EDUC 401

Field Hours Requirement: Required field experience: 20 hours.

## **EDUC 384 - Science Methods for Middle Childhood Educators**

### **Credit Hours: 3**

Provides knowledge and skills necessary to provide science instruction consistent with national and state curriculum models for students in grades 4-9 with an emphasis on the use of a variety of instructional approaches appropriate for culturally and developmentally diverse classrooms. The course prepares students to utilize approaches to teaching and learning which integrate content relevant to student's lives, honor individual differences, and teach basic skills of inquiry and communication, including the application of educational technology.

Prerequisite: EDUC 312 (or EDUC 309 or EDUC 313 or EDUC 314 for special education majors)

Field Hours Requirement: Required field experience: 20 hours.

## **EDUC 385 - Math Methods for Middle Childhood Educators**

### **Credit Hours: 3**

Provides knowledge and skills necessary to provide math instruction consistent with national and state math curriculum models to students in grades 4-9 with an emphasis on the use of a variety of instructional approaches appropriate for culturally and developmentally diverse classrooms. The course prepares students to utilize approaches to teaching and learning which integrate content relevant to students' lives, honor individual differences, cultivate skills in recognizing and solving problems and provide awareness of relevant teaching tools, including manipulative materials and educational technology.

Prerequisite: EDUC 312; (EDUC 309 or EDUC 312 or EDUC 313 or EDUC 314 for special education majors)

Co-requisite: EDUC 301

Field Hours Requirement: Required field experience: 20 hours.

## **EDUC 391 - Integrated Language Arts Methods for the Adolescent**

**Credit Hours: 3**

Focuses on special methods of teaching language arts in grades 7-12 with emphasis on integrated and interdisciplinary instruction, adaptations for learners with special needs, content specific reading strategies and applications of educational technology, and the Ohio Academic Content Standards.

Prerequisite: EDUC 313

Co-requisite: EDUC 301

Field Hours Requirement: Required field experience: 20 hours.

**EDUC 392 - Integrated Math Methods for the Adolescent****Credit Hours: 3**

Focuses on special methods for teaching mathematics in grades 7-12 with emphasis on integrated and interdisciplinary instruction, adaptations for learners with special needs, content specific reading strategies and applications of educational technology, and the Ohio Academic Content Standards.

Prerequisite: EDUC 313

Co-requisite: EDUC 301

Field Hours Requirement: Required field experience: 20 hours.

**EDUC 394 - Integrated Science Methods for the Adolescent****Credit Hours: 3**

Focuses on special methods of teaching science in grades 7-12 with emphasis on integrated and interdisciplinary instruction, adaptations for learners with special needs, content specific reading strategies and applications of educational technology, and the Ohio Academic Content Standards.

Prerequisite: EDUC 313

Co-requisite: EDUC 301

Field Hours Requirement: Required field experience: 20 hours.

**EDUC 395 - Integrated Social Studies Methods for the Adolescent****Credit Hours: 3**

Focuses on special methods of teaching social studies in grades 7-12 with emphasis on integrated and interdisciplinary instruction, adaptations for learners with special needs, content specific reading strategies and applications of educational technology, and the Ohio Academic Content Standards.

Prerequisite: EDUC 313

Co-requisite: EDUC 301

Field Hours Requirement: Required field experience: 20 hours.

**EDUC 396 - Multi-age Art Curriculum and Methods****Credit Hours: 4**

This course provides the student with information needed to teach multi-age art. Focus is on visual art education history, current trends, curriculum and classroom methods. Emphasis is also given to safe and appropriate use of media

for multi-age art making.

Prerequisite: Must be accepted into the Education Program

Co-requisite: EDUC 301

## **EDUC 401 - Teach with Scaffolding**

### **Credit Hours: 1**

This is a clinical field experience course required for teacher education licensure. Students will work with a partner school in an apprenticeship format. Expectations include assisting with classroom organization and management, creation and delivery of co-taught lessons, assessing student performance, maintaining relationships with parents, other caregivers, community partners and building collaborators, and exploring the district, school and classroom context (demographics, academic performance, socio-economic influence, etc). A valid background check is required.

Prerequisite: EDUC 301

## **EDUC 412 - Reading and Writing for Information**

### **Credit Hours: 3**

Develops strategies, techniques and skills for strengthening the reading and writing skills of diverse learners in grades PreK to 5 considering various content areas. Includes applications of educational technology.

Prerequisite: EDUC 371

Field Hours Requirement: Required field experience: 10 hours.

## **EDUC 413 - Reading in the Content Areas**

### **Credit Hours: 3**

This course prepares candidates in research-based strategies, techniques, and skills for strengthening the literacy skills of diverse learners in the content areas in elementary, middle, and high school. The course provides a scientifically based foundation on literacy and language development across language systems and includes applications of educational technology.

Prerequisite: EDUC 313, EDUC 314, EDUC 370, EDUC 371

Co-requisite: EDUC 401

Note: Field hours are required.

Field Hours Requirement: Required field experience: 10 hours.

## **EDUC 414 - Reading Assessment and Intervention**

### **Credit Hours: 3**

This course examines research-based principles, techniques, and materials useful in the assessment and remediation of reading difficulties for learners across the grade bands. The course foci include: (a) best practices for nondiscriminatory assessment, (b) rehearsal opportunities and feedback while administering formal and informal reading and writing assessments, (c) examining how, when, and why to vary learning environments and developmentally appropriate interventions, (d) implementing evidence-based Tier 1, Tier 2, and Tier 3 reading and/or writing interventions to support student learning, and (e) data-based decision-making using a Response to Intervention framework grounded in the Science of Reading. This course addresses cultural and linguistic

differences in the assessment practices to provide appropriate differentiated instruction.

Prerequisite: EDUC 341, EDUC 370, EDUC 371, EDUC 413

Co-requisite: EDUC 401

Note: Field hours are required.

Field Hours Requirement: Required field experience: 20 hours.

## **EDUC 418 - Professional Practices for Early Childhood**

### **Credit Hours: 2**

Taken as part of the professional semester, provides candidates with additional opportunities to develop the knowledge, skills, and dispositions necessary for providing effective instruction in inclusive settings with diverse populations of young children. Emphasis is placed on transitioning into PreK to grade 5 school settings as entry year/resident educators. The culminating activity is a formal exit interview during which the candidate shares his/her portfolio.

## **EDUC 419 - Co-teaching and Collaboration in Education**

### **Credit Hours: 2**

Taken as part of the professional semester, develops the knowledge and skills needed to communicate and collaborate effectively with colleagues, students' families, and the broader community.

## **EDUC 420 - Proactive Approaches to Classroom Management and Support**

### **Credit Hours: 2**

Taken as part of the professional semester, addresses the knowledge and skills needed to establish a safe, positive and supportive environment for all children. Emphasis is placed on developing specific strategies for providing school-wide and targeted behavioral support to students, as well as preparing and organizing resources and maximizing the use of instructional time.

## **EDUC 432 - Student Teaching in Special Education**

### **Credit Hours: 9**

Is a 14-week supervised experience in planning for instruction, creating an environment for student learning, teaching for student learning, and reflecting on student performance in settings that provide services for students identified with mild to moderate disabilities. Part of the professional semester.

## **EDUC 434 - Instructional Services for Children with Mild/Moderate Special Needs**

### **Credit Hours: 3**

Focuses on the selection and implementation of instructional strategies for students with disabilities who need targeted and/or intensive services. Emphasis is placed on skill development in selected intensive instructional approaches in reading, mathematics, and written expression.

Prerequisite: EDUC 340

Co-requisite: EDUC 401

Field Hours Requirement: Required field experience: 15 hours.

## **EDUC 449 - Student Teaching in Early Childhood**

**Credit Hours: 9**

Provides a 14-week supervised experience in planning instruction taken as part of professional clinical practice (student teaching) semester, creating an environment for student learning, teaching for student learning, and reflecting on student performance completed in an early childhood setting, PreK to 5.

## **EDUC 450 - Middle Level Student Teaching**

**Credit Hours: 9**

Is a 14-week supervised experience in planning for instruction, creating an environment for student learning, teaching for student learning, and reflecting on student performance completed in a middle level setting, grades 4 through 9. Part of the professional semester.

## **EDUC 451 - Student Teaching in the Secondary School**

**Credit Hours: 9**

Is a 14-week supervised experience in planning for instruction, creating an environment for student learning, teaching for student learning, and reflecting on student performance completed in a secondary setting, grades 7 through 12. Part of the professional semester.

## **EDUC 455 - Student Teaching in Early/Middle Level Physical and/or Health Education**

**Credit Hours: 5**

Is a supervised experience under the guidance of a cooperating teacher and university faculty member in a minimum of six weeks clinical placement involved in planning for instruction, creating an environment for student learning, teaching for student learning, and reflecting on students' performance completed in a primary or middle school physical education and/or health setting, grades K-3 or grades 4-9. Part of the professional semester.

## **EDUC 457 - Student Teaching in Secondary Level Physical and/or Health Education**

**Credit Hours: 5**

Is a supervised experience under the guidance of a cooperating teacher and Muskingum faculty member in a minimum of six weeks clinical placement involved in planning for instruction, creating an environment for student learning, teaching for student learning, and reflecting on students' performance completed in a secondary school physical education and/or health setting, grades 9-12. Part of the professional semester.

## **EDUC 461 - Student Teaching Seminar**

**Credit Hours: 1**

Is an opportunity for student teachers to synthesize the teacher education knowledge base and practice teaching

experience through large and small group interaction with a focus on linking theory to practice in their student teaching placements. Part of the professional semester.

### **EDUC 465 - Professional Practices in Middle Level Education**

**Credit Hours: 2**

Taken as part of the professional semester, provides candidates with additional opportunities to develop the knowledge, skills, and dispositions necessary for providing effective instruction in inclusive settings with diverse populations of middle level learners. Emphasis is placed on transitioning into grades 4-9 school settings as entry year/resident educators. The culminating activity is a formal exit interview during which the candidate shares their professional portfolio.

### **EDUC 466 - Professional Practices in Secondary Schools**

**Credit Hours: 2**

Taken as part of the professional semester, provides candidates with additional opportunities to develop the knowledge, skills, and dispositions necessary for providing effective instruction in inclusive settings with diverse populations of secondary school learners. Emphasis is placed on transitioning into grades 7-12 school settings as entry year/resident educators. The culminating activity is a formal exit interview during which the candidate shares their professional portfolio.

### **EDUC 468 - Professional Practices in Special Education**

**Credit Hours: 2**

Taken as part of the professional semester, provides candidates with additional opportunities to develop the knowledge, skills, and dispositions necessary for providing effective instruction to students with disabilities in their least restrictive environment, with a particular focus on intensive behavioral support and transition planning. Emphasis is placed on transitioning into K-12 school settings as entry year intervention specialists/resident educators. The culminating activity is a formal exit interview during which the candidate shares their professional portfolio.

### **EDUC 623 - Clinical Practice in Early Childhood Education**

**Credit Hours: 8**

Provides a guided teaching experience with children in grades pre-kindergarten-3 under the supervision of a qualified cooperating teacher and a University supervisor. It requires a minimum of 360 hours of full-day practice teaching, with those hours divided between two settings: pre-kindergarten/kindergarten and grades 1-3. In instances where the student is already in a position that is consistent with the requirements of the clinical practice placement, appropriate components of the course may be completed in that placement if a cooperating teacher who meets that building's mentor criteria can be assigned to the individual. Permission of Program Director required.

MAP Only: X

### **EDUC 626 - Clinical Practice for Intervention Specialist**

**Credit Hours: 8**

Provides a guided teaching experience with children with identified mild to moderate disabilities in grades



kindergarten-12 under the supervision of a qualified cooperating teacher and a University supervisor. It requires a minimum of 360 hours of full-day practice teaching in one or more service settings, including at least 120 hours of instruction in a resource or self-contained classroom. In instances where the student is already in a position that is consistent with the requirements of the clinical practice placement, appropriate components of the course may be completed in that placement if a cooperating teacher who meets that building's mentor criteria can be assigned to the individual. Permission of Program Director required.

MAP Only: X

## **EDUC 627 - Clinical Practice & Professional Portfolio Development Seminar**

### **Credit Hours: 3**

Provides an opportunity for students in their respective clinical practice experiences to synthesize what they have learned and experienced through large and small group interactions with a focus on linking research and theory to practice in their classrooms. Focuses on personal reflection on participant's paths into the teaching profession and provides opportunities to collaborate with other future and current educators. Students also complete their professional portfolios. Permission of Program Director required.

MAP Only: X

## **ENGL 110 - Fundamental English**

### **Credit Hours: 3**

Offers a study of grammar, punctuation, mechanics, and usage. Writing from the sentence to the paragraph level and short essays. Does not count in the major, minor, education concentration, or gen ed.

Prerequisite: Placement or permission of instructor

## **ENGL 121 - Composition**

### **Credit Hours: 3**

Requires students to write between five and six thousand words, applying rhetorical principles of literate discourse principles as demonstrated in samples of effective writing by writers of diverse backgrounds. Includes grammar, levels of usage, the purposes of language, writing for different purposes, and audiences. Does not satisfy hours for the major or minor.

Prerequisite: Placement or completion of ENGL 110. ENGL 121 is a prerequisite for all ENGL courses except ENGL 110.

## **ENGL 123 - Introduction to Literature**

### **Credit Hours: 3**

Explores common topics and themes as expressed in various literary genres. Students read, respond to, and analyze works of literature, and learn how to find connections between literature, our culture, ourselves, and the human condition. Emphasis is on the western tradition of literature. Sections may have individual titles: for example, Introduction to Literature: Literature and Wellness or Introduction to Literature: Leadership and Literature, and others. Either ENGL 123 or ENGL 124 may be used to count toward the English major/minor, but not both.

Prerequisite: ENGL 121

## **ENGL 124 - World Literature**

**Credit Hours: 3**

Explores topics and themes as expressed in notable works of literature from around the world. Students read, respond to, and analyze works of literature and learn how to find connections between literature, various cultures, ourselves, and the human condition. Emphasis is on the non-western tradition of literature. Either ENGL 123 or 124 may be used to count toward the English major/minor, but not both.

Prerequisite: ENGL 121

## **ENGL 201 - Advanced Writing and Professional Development**

**Credit Hours: 3**

This course provides study and practice to help students write effectively and persuasively. As part of the English major, but no limited to English majors and minors, the course concerns the practical matters of writing as part of careers and also asks students to examine and reflect on how writing, literature, and creativity enrich our professional, intellectual, and personal lives. The foundation of the course is a commitment to preparing for the future and a life well lived.

Prerequisite: ENGL 121

## **ENGL 202 - Business Writing**

**Credit Hours: 3**

Concentrates on clarity and orderliness in preparing business correspondence, studies, reports, and proposals.

Prerequisite: ENGL 121

## **ENGL 207 - Print Writing and Reporting**

**Credit Hours: 3**

Provides an introduction to the principles and concepts of writing and reporting for print media and the web. It involves reporting, interviewing, doing background research, writing, and analyzing news stories, and introduces students to journalistic ethics and codes of conduct.

Prerequisite: ENGL 121

Cross Listed As: JOURN 207

## **ENGL 231 - British Literature to 1800**

**Credit Hours: 3**

Studies the major literary movements and figures of British culture from Anglo-Saxon writings through the neoclassical period.

Prerequisite: ENGL 121

### **ENGL 232 - British Literature after 1800**

**Credit Hours: 3**

Examines the development of poetry and prose in Britain from the Romantic writers to the present. The political and intellectual contexts, as well as the subjects and styles of selected authors of both genders, are studied.

Prerequisite: ENGL 121

### **ENGL 233 - American Literature to 1865**

**Credit Hours: 3**

Surveys American literature from the Colonial Era through the age of Romanticism. Genres include essays, Native American legends, captivity narratives, slave narratives, short fiction, the novel, and lyric poetry. Intellectual and historical contexts, as well as key authors, are covered.

Prerequisite: ENGL 121

### **ENGL 234 - American Literature after 1865**

**Credit Hours: 3**

Surveys American literature from the Age of Realism to the present day. Genres include essays, short fiction, drama, poetry, and the novel. Intellectual and historical contexts, as well as key authors, are covered.

Prerequisite: ENGL 121

### **ENGL 235 - African-American Literature**

**Credit Hours: 3**

Examines the major trends in African-American literature, using historical, political, and social contexts. Genres include poetry, fiction, the slave narrative, and drama.

Prerequisite: ENGL 121

### **ENGL 245 - Bible and Literature**

**Credit Hours: 3**

This course explores the interrelationship between the Bible and various selections of literature to provide students ways of understanding how authors were motivated by, reacted to, or otherwise engaged in a dialogue with sacred texts. Furthermore, students can investigate ways in which these works, influenced by Biblical readings, intervened in or otherwise motivated individual, interpersonal, social, or political engagements.

### **ENGL 250 - Topics in Literature, Film, and Culture**

**Credit Hours: 3**

Provides for study of a certain topic through works of literature, supplemented by film or other art forms. Possible topics include fantasy literature, science fiction, or something more broad such as war, love, or the family.

Prerequisite: ENGL 121

Repeatability: May be repeated with topic change.

**ENGL 260 - Introduction to Creative Writing****Credit Hours: 3**

Explores various genres and helps students to develop their individual perspectives and voices. The course involves writing exercises and prompts, group discussions of creative work, and many opportunities for feedback and revision. Enrollment preference to sophomores and above.

Prerequisite: ENGL 121

**ENGL 311 - Adolescent and Young Adult Literature****Credit Hours: 3**

Is a critical study of literature intended for adolescent and pre-adolescent readers. Themes include coming of age, formation of identity, community and society, and the journey. Students become familiar with a variety of YA genres, which may include dystopian fiction, sci fi and fantasy literature, contemporary realistic fiction, non-fiction, and multimodal texts. Attention is given to issues of censorship of YA literature and pedagogical resources for the use of YA literature in the classroom and how the identity formation process is affected when adolescents encounter people from different racial, ethnic, cultural, religious, and/or economic backgrounds.

Prerequisite: ENGL 121

**ENGL 316 - Public Relations Writing****Credit Hours: 3**

Is a study of the current methods of writing copy for agencies, corporations, and not-for-profit organizations. Focuses on the writing of press releases, with an analysis of their purpose, value, and content.

Prerequisite: ENGL 121

**ENGL 317 - Journalistic Ethics****Credit Hours: 3**

Studies ethical problems and issues in mass communication with a framework of basic theories and social roles of mass media. Surveys the major ethical issues that concern journalism. Describes ethical dilemmas that confront broadcast and print journalists. Matters of journalistic morality, codes of ethics, codes of conduct, taste, libel, shield laws, and photo guidelines are covered.

Prerequisite: ENGL 121

## **ENGL 319 - Topics in Creative Nonfiction Writing**

**Credit Hours: 3**

Provides students the opportunity to explore the principles and practice of creative nonfiction writing. Topics may include memoir, personal essay, travel, food, humor, and science.

Prerequisite: ENGL 121

Repeatability: May be repeated once with topic change.

## **ENGL 320 - Principles of Literary Study**

**Credit Hours: 3**

Explores theoretical principles and critical viewpoints that underlie the thoughtful, purposeful study of literature and applies these principles to key literary works.

Prerequisite: ENGL 121

## **ENGL 323 - Shakespeare**

**Credit Hours: 3**

Is an intensive study of Shakespeare's writings, including selected sonnets, comedies, histories, tragedies, and romances, with special attention to the major themes and to the Elizabethan and Jacobean contexts of his plays. The course covers the practices and conventions of theatrical performance in Shakespeare's time and his development as a dramatist.

Prerequisite: ENGL 121

## **ENGL 329 - Romantic and Victorian Literature**

**Credit Hours: 3**

Explores Romantic and Victorian poetry and representative prose sections, the position of art, and the process of myth and metaphor in nature/culture relations.

Prerequisite: ENGL 121

## **ENGL 331 - History of the British Novel**

**Credit Hours: 3**

Studies the novel as an important literary and social development in Britain and follows some of the important changes in the structure, purpose, and audience of the novel through the eighteenth and nineteenth centuries.

Prerequisite: ENGL 121

## **ENGL 333 - Modern and Contemporary British Fiction**

**Credit Hours: 3**

Examines the directions British fiction has taken in response to a changing social and literary scene: two world wars, the decline of the British Empire, the rise of working class, women, and minority writers. The course considers experimental and traditional writers from Joyce to the present.

Prerequisite: ENGL 121

**ENGL 341 - Nineteenth Century American Fiction**

**Credit Hours: 3**

Studies the works of the American Romantics, then moves to the realism, regionalism, and naturalism.

Prerequisite: ENGL 121

**ENGL 343 - Modern and Contemporary American Fiction**

**Credit Hours: 3**

Studies the variety and richness of American fiction since the turn of the twentieth century. Topics may include novels of the 1920s, war novels, and the works of women and minority writers.

Prerequisite: ENGL 121

**ENGL 350 - Morality and Literature**

**Credit Hours: 3**

This course covers a range of moral and ethical issues associated with literature: its content, its production, and its study. For example, works of literature may be analyzed for its moral content or from the perspective of moral and ethical criticism. In addition, the course will study broader, literature-related issues such as censorship, plagiarism, diversity in representation, or the line between fiction and nonfiction.

Prerequisite: ENGL 121

**ENGL 351 - Modern and Contemporary American Poetry**

**Credit Hours: 3**

Studies the life of poetry in recent American culture, from the early twentieth century through today. The course attempts to answer the question, "Why does poetry matter?" The emphasis is on close reading along with an exploration of diverse methods of literary criticism, such as historical and biographical. Poets are looked at in context, and poetic form will be considered as well, from iambic pentameter to spoken word and Slam.

Prerequisite: ENGL 121

**ENGL 361 - Language: Structure and Usage**

**Credit Hours: 3**

Studies the theoretical views and methodological tools for an accurate understanding of language, its structure, and usage. Emphasis is on the English language, covering topics such as language acquisition and development, the history of the English language, grammar, dialects, sentence analysis and levels of usage.

Prerequisite: ENGL 121

## **ENGL 385 - Topics in Literature, Film, and Culture**

**Credit Hours: 3**

Provides for study of significant writers, genres, and themes as well as other topics devised by faculty or requested by students.

Prerequisite: ENGL 121

Repeatability: May be repeated with topic change.

## **ENGL 386 - Topics in Film and Literature**

**Credit Hours: 3**

Explores specific topics in film and literature. Students will view selected films, read selected texts, and apply theoretical approaches, close reading, and film analysis techniques. Topics may include cinematic adaptations of authors (e.g., Shakespeare, Dickens, Austen), genres (e.g., anime, comedy, sci-fi), or themes (e.g., gender in film and literature, dystopias in film and literature, sports in film and literature).

Prerequisite: ENGL 121

Repeatability: May be repeated with topic change.

## **ENGL 387 - Topics in Literature and Gender**

**Credit Hours: 3**

Gives students the opportunity to explore literary texts through the lens of gender. Students learn principles of gender theory and analysis, and how to use these principles to understand and interpret texts. Topics may include LGBT literature, women's literature, the literature of masculinity, marriage in the 19th-century novel, sexuality in science fiction, or others according to instructor interest and research area.

Prerequisite: ENGL 121

Repeatability: May be repeated with topic change.

## **ENGL 390 - Advanced Creative Writing**

**Credit Hours: 3**

Provides students with practice in a variety of forms, increasing in complexity. Individual style and voice in students' work as well as in contemporary authors are explored.

Prerequisite: ENGL 260 or permission on instructor.

## **ENGL 394 - Classical Mythology**

**Credit Hours: 3**

Emphasizes Greek and Roman mythology and its influence on English and American writers. Various examples of Greek and Roman literature are read in translation.

Prerequisite: ENGL 121

**ENGL 398 - Internship in English**

**Credit Hours: 3**

Designed to offer students supervised English-related work experience. The aim is to allow students to use and develop knowledge of the English language in professional contexts involving editing and publication. The course number sequence allows for internships covering up to two semesters, consecutive or non-consecutive. Up to six hours may count toward the English major or minor. Must be approved and supervised by instructor with relevant content background to the internship. Students must have taken appropriate courses relevant to the internship.

Prerequisite: Permission of instructor

**ENGL 399 - Continuing Internship in English**

**Credit Hours: 1-3**

Designed to offer students supervised English-related work experience. The aim is to allow students to use and develop knowledge of the English language in professional contexts involving editing and publication. The course number sequence allows for internships covering up to two semesters, consecutive or non-consecutive. Up to six hours may count toward the English major or minor. Must be approved and supervised by instructor with relevant content background to the internship. Students must have taken appropriate courses relevant to the internship.

Prerequisite: Permission of instructor

**ENGL 495 - Seminar**

**Credit Hours: 3**

Is the capstone course for English majors; students share in intensive study of a major literary work and write a paper of suitable length, applying the theoretical principles of literary criticism to that work. Discussions focus on analyzing literature, critical reading, and research methods. Students are expected to make a brief oral presentation at the end of the semester, summarizing their work. Offered each semester on a subject selected by the instructor.

Prerequisite: ENGL 320

Cross Listed As: ENGL 320; senior status or permission of department chair

**ESL 101 - ESL Listening and Speaking**

**Credit Hours: 3**

Intended for students of a high-intermediate to advanced level of English proficiency, and focuses on English listening and speaking skills needed for academic purposes. Students successfully completing the course will be able to give an oral critical report and illustrate listening comprehension through a variety of exercises.



Prerequisite: Permission of instructor  
Co-requisite: ESL 102

## **ESL 102 - ESL Reading and Writing**

**Credit Hours: 3**

Intended for students at high-intermediate to advanced level of English proficiency and focuses on reading and writing skills needed for a liberal arts education. Writing assignments are connected to reading materials suitable for a culturally diverse student population, and samples of effective writing are studied with accessibility to culturally diverse students in mind. Students write essays of narration, description, exposition, classification, and argumentation.

Prerequisite: Permission of instructor  
Co-requisite: ESL 101

## **ESL 103 - Introduction to American Culture for Non-Native English Speakers**

**Credit Hours: 2**

An opportunity for non-native English speaking students to have an introduction to American Culture. Activities are designed to help students understand life and culture in the United States. Topics addressed include religious life in the United States, the American political system, a glimpse into American history, American values, the American educational system, interpersonal communication with Americans, American art, customs and traditions, and sport and entertainment.

Co-requisite: ESL 101, ESL 102

## **ESL 104 - Academic English for Non-Native English Speakers**

**Credit Hours: 3**

Intended for students at the high-intermediate to advanced level of English proficiency and focuses on helping students achieve the cognitive academic language proficiency (CALP) skills needed to succeed in university-level courses. Through a variety of exercises, students receive focused instruction on academic vocabulary and language skills.

Prerequisite: ESL 101, ESL 102  
Co-requisite: ESL 251, WRLD 200

## **ESL 251 - ESL Conversation Table for Non-Native English Speakers**

**Credit Hours: 1**

An opportunity for international students to maintain or improve their English language skills through authentic conversation with native English speakers (who will not be enrolled as students in the class). Activities are designed to help students use the language creatively as well as purposefully.

## **ESL 351 - ESL Conversation Table for Non-Native English Speakers**

**Credit Hours: 1**

A weekly meeting designed to expand vocabulary and increase the speaking of students at the advanced-low to

advanced-mid level. Students may take up to three conversation classes (ESL 251, 351, or a combination) for credit.

Prerequisite: ESL 101, its equivalent or permission of instructor.

### **EVSC 121 - Environmental Issues**

**Credit Hours: 1**

Involves presentation and discussion of selected topics of importance in environmental science. This course permits students to explore this broad field through general readings and discussion.

### **EVSC 421 - Topics in Environmental Science**

**Credit Hours: 1**

Is a seminar course which explores in detail, through reading and discussion, recently published reports and topics in the field. Environmental science majors must take the course for at least one credit. May be taken for additional credit.

Prerequisite: Environmental Science major core completed or consent of major advisor.

### **EVSC 422 - Advanced Internship in Environmental Science**

**Credit Hours: 4**

Requires the successful completion of a minimum of 160 hours during either a semester or a summer as an intern in an environmentally-related situation.

Prerequisite: Junior standing, prior approval of internship

### **EVSC 428 - Environmental Science Senior Research**

**Credit Hours: 4**

Involves laboratory, field and/or library research on a topic related to environmental science. The project will be selected in consultation with a faculty member and will involve a literature search and experimental work.

Prerequisite: Environmental Science major with senior standing

### **EXSC 120 - Introduction to Exercise Science**

**Credit Hours: 3**

This course presents an overview of the profession of Exercise Science and provides students with instruction on a variety of introductory skills necessary to begin practicing as an Exercise Science Professional.

### **EXSC 131 - Human Structure and Function**

**Credit Hours: 4**

Focuses on the levels of body organization, body support and movement, structural physiology and disease. Topics include the chemical and cellular basis of human life, the integration of body functions and homeostasis, and the

structure and function of the various body systems including nervous, endocrine, musculoskeletal, cardiovascular, and integumentary. Disease etiology, prevention practices as they affect the human body, and practices and behaviors that promote, as well as compromise, health and safety are also examined.

## **EXSC 140 - Prevention & Care of Orthopedic Injuries**

**Credit Hours: 3**

This course presents an overview of the professions that contribute to sports medicine and examines prevention, recognition, and care strategies of common musculoskeletal injuries.

Prerequisite: EXSC 131, BIOL 111/BIOL 107, BIOL 121, or BIOL 122

## **EXSC 170 - Orthopedic Anatomy**

**Credit Hours: 3**

This course focuses on the structural anatomy of the body, particularly the skeletal, ligamentous, musculotendinous, and neurologic systems. The course prepares Exercise Science students with the anatomy necessary to be successful in future Exercise Science courses.

## **EXSC 210 - First Aid and CPR**

**Credit Hours: 3**

This course is designed to prepare students in administering immediate care to the injured and suddenly ill and to provide temporary care until medical help arrives. Students have the opportunity to earn First Aid and CPR certification from Red Cross or the American Heart Association.

## **EXSC 249 - Exercise Physiology**

**Credit Hours: 3**

Analyzes the responses of the human body to physical activity, including an awareness of the various types of flexibility, strength training, and cardiovascular conditioning programs. This course aligns with the goals and objectives for physical education teacher candidates seeking multi-age licensure. Hands-on activities within the course structure allow students to have practical evaluation experiences.

Prerequisite: EXSC 131

## **EXSC 250 - Cultural Competency in Healthcare**

**Credit Hours: 3**

This course introduces students to patient demographics and how culture influences health care and wellbeing. Emphasis is placed on cultural competence, examining practices of inclusion, and employing an appropriate inter-professional intervention model. 3 hours of lecture per week.

## **EXSC 260 - Rehabilitation Techniques in Exercise**

**Credit Hours: 3**

This course examines the broad field of therapeutic exercise and rehabilitation of major body areas following injury or disease. Students will learn to design and implement programs for the rehabilitation of patients from exercise injuries and conditions.

**EXSC 315 - Electrocardiography (ECG) Analysis**

**Credit Hours: 1**

This course focuses on methods and principles for analyzing electrocardiograms through a step by step approach. Students develop the skills necessary to administer ECG's and analyze for dysrhythmias pertinent to stress and VO2 max testing.

Prerequisite: EXSC 131 or BIOL 122

**EXSC 333 - Motor Learning and Performance**

**Credit Hours: 3**

Introduces students to a wide range of practical issues in the performance and learning of motor skills. Emphasis is placed upon a variety of exercises and activities that allow for the application of concepts and principles in real world situations.

**EXSC 336 - Principles of Strength and Conditioning**

**Credit Hours: 3**

Familiarizes students with the hands-on training and theoretical background needed to competently assess levels of wellness/fitness within low risk adult populations. The topics and skills addressed include health screening protocols and measurement protocols for the health-related components of fitness (i.e. cardiorespiratory fitness, muscular fitness, flexibility, body composition).

**EXSC 337 - Exercise Testing and Prescription**

**Credit Hours: 3**

Familiarizes students with the hands-on training and theoretical background needed to competently assess levels of wellness/fitness within low risk adult populations. The topics and skills addressed include health screening protocols and measurement protocols for the health-related components of fitness (i.e., cardiorespiratory fitness, muscular fitness, flexibility, body composition).

**EXSC 338 - Kinesiology**

**Credit Hours: 3**

Is the study of musculoskeletal anatomy for efficient bodily movement. Offers application of kinesiological and biomechanical principles for the implementation of physical education programs for students of multi-age. Laboratory activities allow students to have hands-on practical evaluation experience.

**EXSC 349 - Advanced Exercise Physiology**

**Credit Hours: 3**

Examines the acute physiological adjustments to exercise and the chronic physiological adaptations to exercise training. The role of the major physiological systems of the body in maintaining homeostasis during exercise will be studied along with the adaptations that occur in these systems following exercise training. Practical applications of this knowledge will be explored with regards to the role of exercise in maintaining and improving health, physical fitness and athletic performance.

Prerequisite: EXSC 131

**EXSC 370 - General Medical Conditions****Credit Hours: 3**

This course provides the student with the opportunity to develop theoretical and practical knowledge of clinical signs and symptoms of pathology, which will allow the practicing exercise science professional to recognize systematic illnesses and injuries.

**EXSC 375 - Therapeutic Modalities****Credit Hours: 3**

This course provides the student with the opportunity to develop theoretical and practical knowledge of therapeutic modalities (such as thermal and electromagnetic agents) which are used in the treatment and care of exercise injuries.

**EXSC 380 - Pharmacology for the Exercise Professional****Credit Hours: 3**

This course introduces students to basic pharmacological principles and drugs used to treat musculoskeletal and general medical conditions common in the physically active population. This course will also demonstrate common adverse reactions that drugs may have on exercise and the legal and ethical considerations regarding medication influence on participation in athletics.

Prerequisite: CHEM 108 or CHEM 111

**EXSC 470 - Organization and Administration****Credit Hours: 3**

This course is the study of concepts in healthcare organization and administration relative to exercise science. The course will discuss such topics as legal liability, fiscal management, facilities operation, personnel supervision, public relations, and organizational structures.

**EXSC 490 - Research Methods****Credit Hours: 3**

This course introduces the basic skills necessary to critique research in exercise science. Focus on the process of selecting a topic and then writing a manuscript to be submitted for publication. The course prepares the Exercise Science student for their senior seminar.

Prerequisite: EXSC 470

### **EXSC 495 - Senior Seminar**

**Credit Hours: 3**

This course enables the student to pursue an approved, in depth research project with a focus on the evidence-based practice of exercise science. The student will research a specific topic and prepare an oral presentation as well as a written paper.

Prerequisite: EXSC 490

### **EXSC 498 - Seminar in Health and Fitness**

**Credit Hours: 3**

A capstone course for students completing the Health and Fitness major. The student will engage in the development of a research proposal or public health practicum to provide a practical application of their general coursework. The research topic/practicum placement will be selected in consultation with the supervising faculty member.

Prerequisite: Permission of Department Chair

### **FLWS 110 - JAG Public Service Fellows Colloquium I**

**Credit Hours: 1**

Examines the foundational ideas, dynamics, and issues related to civic engagement and public service, and facilitates contemplation of a student's roles, responsibilities, and opportunities in civic life. Students engage in University-based as well as off-campus experiential learning, including events and activities facilitated by government and non-profit organizations.

Repeatability: The course may be repeated once for academic credit.

### **FLWS 120 - Innovation Fellows Program I**

**Credit Hours: 1**

This course introduces innovation through readings, case studies, media, and literature; exposes students to innovate problem-solving and teamwork activities; and facilitates the exploration of ideas and interests related to innovation. Students will be expected to participate in off-campus activities and group projects.

Repeatability: Can be repeated once for credit.

### **FLWS 210 - JAG Public Service Fellows Colloquium II**

**Credit Hours: 1**

Examines in depth the civic engagement and public service themes introduced in FLWS 110 and connects them to the importance of building empowerment and efficacy in civic life. Students will interact with civic and community organizations and officials as well as help to develop and carry out civic engagement and public service related events

and activities. Students will also engage in leadership and mentoring activities, including service as mentors to first-year fellows.

Repeatability: The course may be repeated once for academic credit.

## **FLWS 220 - Innovation Fellows Program II**

### **Credit Hours: 1**

This course builds on students' knowledge of innovation through readings, case studies, media, and literature; exposes students to innovative problem-solving and teamwork activities; and facilitates the exploration of ideas and interests related to innovation. Students will be expected to participate in off-campus activities and group projects, and to take on a mentoring role.

Repeatability: Can be repeated once for credit.

## **FLWS 310 - JAG Fellows High-Impact Experience in Public Service**

### **Credit Hours: 1**

This course serves to provide enhanced instruction related to civic and community engagement and public service for students in the John and Annie Glenn Public Service Fellows Program. It is intended to be taken concurrently and in coordination with a high-impact experience approved by the JAG Fellows Program, preferably in the student's junior year.

Prerequisite: Acceptance in the John and Annie Glenn Public Service Fellows Program and completion of at least one semester each of FLWS 110 and FLWS 210.

## **FLWS 320 - Innovation Fellows Program III**

### **Credit Hours: 1**

This course continues building on students' knowledge of innovation through readings, case studies, media, and literature; exposes students to innovative problem-solving and teamwork activities; and facilitates the planning and implementation of a high-impact experience. Students will be expected to participate in off-campus activities and group projects, and to take on a mentoring role.

Repeatability: Can be repeated once for credit.

## **FLWS 410 - JAG Public Service Fellows Practicum**

### **Credit Hours: 2**

This course involves the collaboration of senior-level students in the John and Annie Glenn Public Service Fellows Program to identify and address a community issue or need. Building upon knowledge and experience gained in the JAG Fellows Program, fellows collectively identify an issue or need; develop an event or program to address it; plan and administer that event or program; and explore ways to make their efforts sustainable once the course has ended.

Prerequisite: Acceptance into the John and Annie Glenn Public Service Fellows Program and completion of at least one semester each of FLWS 110 and FLWS 210.

## **FLWS 420 - Innovation Fellows Program IV**

### **Credit Hours: 1**

This course continues building on students' knowledge of innovation through readings, case studies, media, and literature; exposes students to innovative problem-solving and teamwork activities; facilitates the planning and implementation of a high-impact experience; prepares students to continue innovating after graduation. Students will be expected to participate in off-campus activities and group projects, and to take on mentoring and leadership roles.

Repeatability: Can be repeated once for credit.

## **FREN 111 - Beginning French I**

### **Credit Hours: 3**

Introduces students to the culture and language of the French-speaking world. Students develop an ability to communicate in real-life situations by acquiring reading, writing, listening, and speaking skills. This course is intended for students with no prior knowledge of French, or those who have had two years or less of high school French.

## **FREN 112 - Beginning French II**

### **Credit Hours: 4**

Builds on the skills acquired in FREN 111. Students continue to develop an ability to communicate in real-life situations by acquiring additional reading, writing, listening, and speaking skills as well as cultural competency in the French-speaking world. Students meet once a week with a language assistant from France.

Prerequisite: FREN 111 or 2-3 years of high school French

## **FREN 123 - Explorations of Francophone Literature in English Translation**

### **Credit Hours: 3**

Is taught entirely in English. The course introduces basic literary concepts and explores themes and movements of French literature from the seventeenth to the twentieth centuries.

## **FREN 211 - Intermediate French I**

### **Credit Hours: 4**

Continue the development of interpersonal, interpretive, and presentational skills through a variety of texts (journalistic, short story, poetry, advertising, film, etc.) that reflect the cultural, social, and linguistic diversity of the French-speaking world. Students explore the diversity of practices, products, and perspectives found within contemporary French-speaking societies. Topics may include gender, multiculturalism, ethnicity, family, religion, literature, art, music, gastronomy, education, economics, and politics. Students meet once a week with a language assistant from France.

Prerequisite: FREN 112 or its equivalent

## **FREN 212 - Intermediate French II**



**Credit Hours: 4**

Continue the development of interpersonal, interpretive, and presentational skills through a variety of texts (journalistic, short story, poetry, advertising, film, etc.) that reflect the cultural, social, and linguistic diversity of the French-speaking world. Students explore the diversity of practices, products, and perspectives found within contemporary French-speaking societies. Topics may include gender, multiculturalism, ethnicity, family, religion, literature, art, music, gastronomy, education, economics, and politics. Students meet once a week with a language assistant from France.

Prerequisite: FREN 211 or its equivalent

**FREN 240 - Business French****Credit Hours: 3**

Introduces basic concepts of business communication in the French-speaking world. Topics include finance, economics, marketing, and intercultural awareness.

Prerequisite: FREN 212, its equivalent, or permission of instructor.

**FREN 251 - French Table****Credit Hours: 1**

Offers the opportunity to practice conversational French in an informal setting. Activities are designed to encourage students to express themselves creatively in French.

Prerequisite: FREN 111 or its equivalent

Repeatability: The course may be taken up to three times for credit, but applied to the major only twice.

**FREN 291 - Advanced French Table****Credit Hours: 1**

A weekly meeting designed to expand vocabulary and increase the speaking proficiency of students at or above the advanced-intermediate level.

Prerequisite: FREN 212, its equivalent, or permission of instructor.

Note: Maximum number of French Table classes (FREN 251, 291, or a combination) that may be taken for credit: three. Maximum number of French Table classes that can be applied to the 33 hours required for the major: two (can consist of two 251s; two 291s, or one of each).

**FREN 301 - Advanced French: Conversation and Pronunciation****Credit Hours: 3**

Emphasizes listening and speaking skills. Students improve their comprehension and speech through laboratory exercises, class discussions, and other activities.

Prerequisite: FREN 212 or its equivalent

## **FREN 302 - Advanced French: Grammar and Composition**

**Credit Hours: 3**

A writing course that focuses on writing for a number of purposes, including essays, correspondence, narratives, and literary analysis. An overview of French grammar is included.

Prerequisite: FREN 212 or its equivalent

Repeatability: The course may be taken twice for credit.

## **FREN 303 - Survey of French Literature**

**Credit Hours: 3**

Introduces major literary movements, principal writers, and outstanding works of French literature in their historical contexts beginning with the sixteenth century.

Prerequisite: FREN 302 or permission of instructor

## **FREN 304 - Survey of French and Francophone Literatures**

**Credit Hours: 3**

Surveys contemporary French-language literatures and their cultural contexts in French-speaking Africa, North America, and the Caribbean as well as in France.

Prerequisite: FREN 302 or permission of instructor

## **FREN 310 - Study Abroad Seminar**

**Credit Hours: 1**

Satisfies the study abroad requirement for the major. Students attend preparatory meetings and participate in assignments designed to maximize the value of the required study abroad experience. Before departure, students engage in readings and discussions. After study abroad, students submit a reflection paper and/or assigned written work related to their formal and informal learning gained during the stay.

## **FREN 325 - Topics in French Civilization**

**Credit Hours: 3**

Explores aspects of French civilization and culture, including history, religion, the arts, politics, and gender.

Prerequisite: FREN 212, its equivalent, or permission of instructor.

Repeatability: The course may be repeated for credit as the subject matter changes.

## **FREN 360 - Topics in French Language and Culture**

**Credit Hours: 1-3**

Provides an opportunity to study a linguistic, literary, or cultural topic related to the French-speaking world. Courses in

topical areas not offered in the regular curriculum may be offered on a rotating basis.

Prerequisite: Sophomore standing and permission of instructor

Repeatability: The course may be repeated for credit as subject matter changes.

## **FREN 431 - French Culture Seminar**

**Credit Hours: 3**

Provides the advanced student the opportunity for in-depth study of an aspect of French or Francophone culture, which may include: literature, art, cinema, business culture, or another approved topic. The course serves as a capstone for the French major.

Prerequisite: Two French courses numbered above 302, at least one of which is taught in French, or permission of instructor.

## **GEOG 111 - World Regional Geography**

**Credit Hours: 3**

Introduces the eight major cultural regions of the earth. The course emphasizes the human adaptation patterns to variations in physical characteristics of the earth's environments. Special attention is given to human activities such as agriculture, population dynamics, resource development, economic systems, and religious expression.

## **GEOG 120 - Physical Geography**

**Credit Hours: 3**

An introduction to the earth's major natural environmental systems, their spatial distribution and interrelationships, including weather and climate, vegetation and ecosystems, soils, landforms, and earth-surface processes.

## **GEOG 220 - Earth's Climate System**

**Credit Hours: 3**

Designed to provide a broad introduction to climatology, the study of the average state of weather on planet Earth. Planetary energy budgets, regional climates, climate change, and past and future climates are emphasized.

## **GEOG 310 - Introduction to Geographic Information Systems**

**Credit Hours: 3**

Focuses on the theory and practical applications of geographic information systems (GIS). Basic concepts along with the following topics - map projections and coordinate systems; vector and raster data; data display; data analysis and modeling - are introduced.

Note: 2 hours of lecture and 1 hour of laboratory.

## **GEOG 321 - Weather and Climate**

**Credit Hours: 3**

Introduces meteorology and climatology. The course treats the subjects from both descriptive and theoretical points of view.

**GEOG 331 - Regional Geography**

**Credit Hours: 3**

Studies the interrelationships among physical, economic, and cultural phenomena within various regions. A) Anglo-American geography, B) European geography, C) Latin American geography.

**GEOL 101 - Introduction to Geology**

**Credit Hours: 4**

Studies forces, processes, and events which have shaped our physical environment.

Note: Laboratory and field trips.

**GEOL 104 - Earth History**

**Credit Hours: 4**

Studies the methods and principles employed in deciphering the geologic history of the earth and the development of life. Emphasis is upon the geological evolution of the North American continent and the main features of the fossil record.

Prerequisite: GEOL 101 or 110

Note: Laboratory and field trips.

**GEOL 105 - Geohazards**

**Credit Hours: 3**

An overview of the geological and human factors that contribute to natural disasters, including the role of plate tectonics in driving earthquakes, tsunamis and volcanic activity; the atmospheric and hydrological cycles and their role in weather and climate related disasters; and anthropogenic impact of human civilization on Earth processes and the potential effects on health, safety and property.

**GEOL 110 - Environmental Geology**

**Credit Hours: 4**

Focuses on the interaction between humans and the geologic environment. Geologic phenomena, such as flooding, volcanoes, earthquakes, shoreline erosion, and soil erosion are examined. Environmental problems to be discussed include groundwater pollution, geologic constraints on sewage and solid waste disposal, resource utilization, acid rain, and the greenhouse effect. Students gain a strong understanding of how geology influences many of these environmental problems.

Note: Laboratory and field trips.

## **GEOL 200 - Oceanography**

**Credit Hours: 3**

A broad study of the marine environment which emphasizes the interrelationships of living and non-living systems. Current concepts of ocean evolution are analyzed with respect to their physical, chemical, and biological importance.

Note: Laboratory and field trips.

## **GEOL 220 - Landform Evolution**

**Credit Hours: 3**

A comprehensive analysis of geological processes operating at or near the earth's surface. Topics include weathering, soil development, mass wasting and fluvial, glacial, eolian, and coastal erosion and deposition. Geomorphic systems are viewed primarily from a process-response perspective.

Note: Laboratory and field trips.

## **GEOL 230 - Introduction to Well Logging**

**Credit Hours: 3**

Focuses on understanding the different types of well logs, their purpose, and limitations. Case studies allow students to gain practical experience in well log interpretation and correlation.

## **GEOL 295 - Research Experience**

**Credit Hours: 1-3**

Offers course credit to freshman or sophomore students interested in geology, earth science, and/or geoscience who would like to obtain some research experience.

## **GEOL 301 - Mineralogy**

**Credit Hours: 4**

Deals with the physical properties of minerals. The course includes descriptive crystallography, optical mineralogy, and x-ray methods. Laboratory.

Prerequisite: Permission of instructor.

## **GEOL 302 - Igneous and Metamorphic Petrology**

**Credit Hours: 3**

Studies igneous, sedimentary and metamorphic rocks and their genesis.

Prerequisite: GEOL 101 or GEOL 110, GEOL 301

Note: Includes laboratory.

## **GEOL 303 - Sedimentary Petrology**

**Credit Hours: 3**

A study of the petrology and petrography of sedimentary rocks. Emphasis is upon recognition, classification and interpretation of sediments via field methods and optical petrography.

Note: Laboratory and field trips. (2 CEUs)

## **GEOL 311 - Paleontology**

**Credit Hours: 3**

Encompasses the taxonomy, morphology and recognition of stratigraphically-significant invertebrate fossils. Biostratigraphy, paleoecology, and the evolutionary history of organisms as viewed from the standpoint of the fossil record are also included. Micropaleontology, vertebrate paleontology, and paleobotany are introduced.

Prerequisite: Permission of instructor

Note: Laboratory and field trips.

## **GEOL 313 - Structural Geology**

**Credit Hours: 3**

Deals with the mechanical principles of rock deformation and the resulting development of folds, faults, joints, and other tectonic features. The related causes and mechanisms of mountain building are also discussed, along with continental drift, sea floor spreading, and plate tectonics.

Prerequisite: GEOL 101 or GEOL 110, GEOL 104

Note: Laboratory and field trips.

## **GEOL 322 - Sedimentology and Stratigraphy**

**Credit Hours: 3**

Studies the principles that govern the distribution and variability of sediments and sedimentary rocks. Emphasis is upon interpretation of source, mode of transport, and environment of deposition of sedimentary sequences by analysis of vertical and lateral variations in texture, composition, sedimentary structures, and geometry of sedimentary rock bodies.

Prerequisite: GEOL 101 or GEOL 110, GEOL 104

Note: Laboratory and field trips.

## **GEOL 350 - Petroleum Geology**

**Credit Hours: 3**

Focuses on the specific aspects of petroleum geology, such as petroleum migration, seismic exploration and production geology, that are not covered in more general geology courses.

## **GEOL 395 - Topics in Geology**

**Credit Hours: 1-4**

Provides the opportunity to pursue advanced studies in subjects not offered as formal courses. The department offers such studies in the areas of geomorphology, geochemistry, and other topics.

**GEOL 410 - Subsurface Geology****Credit Hours: 3**

Focuses on the major techniques used by exploration and production geologists to determine the nature of stratigraphic and structural variations in the subsurface. This course also incorporates computer techniques including Geographic Information Systems in the study of subsurface geology.

**GEOL 495 - Literature Seminar****Credit Hours: 2**

A part of the capstone for the geology major. Students develop arguments, lead discussions, and make oral presentations about current research in the geological sciences.

**GEOL 496 - Senior Research****Credit Hours: 3**

A part of the capstone for the Geology major. Students complete an intensive study of a selected problem in geology.

**GERM 111 - Beginning German I****Credit Hours: 3**

The first of two elementary-level courses intended to help students develop communicative as well as intercultural competence in German. This course is intended for students with no prior knowledge of German, or those who have had two years or less of high school German.

**GERM 112 - Beginning German II****Credit Hours: 4**

Builds on the skills acquired in GERM 111. Students will continue to develop an ability to communicate in real-life situations by acquiring additional reading, writing, listening, and speaking skills as well as cultural competency in the Germanic world. Students meet once a week with a language assistant from Germany.

Prerequisite: GERM 111 or 2-3 years of high school German

**GERM 123 - Explorations in German Literature in English Translation****Credit Hours: 3**

Taught entirely in English. The course includes a variety of literary genres from a cross-section of Germanic countries. Emphasis is on significant literary works ranging from the earliest to the most modern and their film adaptations.

## **GERM 211 - Intermediate German I**

### **Credit Hours: 4**

Continue the development of interpersonal, interpretive, and presentational skills through a variety of texts (journalistic, short story, poetry, advertising, film, etc.) that reflect the cultural, social, and linguistic diversity of the German-speaking world. Students explore the diversity of practices, products, and perspectives found within contemporary German-speaking societies. Topics may include gender, multiculturalism, ethnicity, family, religion, literature, art, music, gastronomy, education, economics, and politics. Students meet once a week with a language assistant from Germany.

Prerequisite: GERM 112 or its equivalent

## **GERM 212 - Intermediate German II**

### **Credit Hours: 4**

Continue the development of interpersonal, interpretive, and presentational skills through a variety of texts (journalistic, short story, poetry, advertising, film, etc.) that reflect the cultural, social, and linguistic diversity of the German-speaking world. Students explore the diversity of practices, products, and perspectives found within contemporary German-speaking societies. Topics may include gender, multiculturalism, ethnicity, family, religion, literature, art, music, gastronomy, education, economics, and politics. Students meet once a week with a language assistant from Germany.

Prerequisite: GERM 211

## **GERM 251 - German Table**

### **Credit Hours: 1**

Offers the opportunity to practice conversational German in an informal setting. Activities are designed to help students use the language creatively.

Prerequisite: GERM 111 or its equivalent

Note: The course may be taken three times for credit but applied to the major or minor only twice.

## **GERM 291 - Advanced German Table**

### **Credit Hours: 1**

A weekly meeting designed to expand vocabulary and increase the speaking proficiency of students at or above the advanced-intermediate level.

Prerequisite: GERM 212, its equivalent, or permission of instructor.

Note: Maximum number of German Table classes (GERM 251, 291, or a combination) that may be taken for credit: three. Maximum number of German Table classes that can be applied to the hours required for the major: two (can consist of two 251s; two 291s, or one of each).

## **GERM 301 - Advanced German: Conversation and Pronunciation**



**Credit Hours: 3**

Emphasizes listening and speaking skills. Students improve their comprehension and speech through laboratory exercises, class discussions, and other activities.

Prerequisite: GERM 212 or equivalent

**GERM 302 - Advanced German: Grammar and Composition**

**Credit Hours: 3**

Emphasizes refinement of writing skills and good usage in German.

Prerequisite: GERM 212, its equivalent, or permission of instructor.

Note: Given different contracts, the course may be taken twice for credit.

**GERM 303 - From the Middle Ages through the 19th Century**

**Credit Hours: 3**

Introduces German history from 750 to 1800. The course provides a cultural, literary, and historical survey from the age of Charlemagne to the Enlightenment.

Prerequisite: GERM 212 or permission of instructor

**GERM 304 - From Expressionism to Post-War Literature**

**Credit Hours: 3**

Examines representative authors of the early 20th century, the literary resistance in the Third Reich, exile literature, and the emergence of a new German literature after 1945.

Prerequisite: GERM 302 or permission of instructor

**GERM 310 - Study Abroad Seminar**

**Credit Hours: 1**

Satisfies the study abroad requirement for the major. Students attend preparatory meetings and participate in assignments designed to maximize the value of the required study abroad experience. Before departure, students engage in readings and discussions. After study abroad, students submit a reflection paper and/or assigned written work related to their formal and informal learning gained during the stay.

**GERM 325 - Topics in Germanic Civilization**

**Credit Hours: 3**

Explores aspects of Germanic civilization and culture including history, the arts, architecture, religion, and literature in German speaking countries.

Prerequisite: GERM 212 or permission of instructor

Repeatability: The course may be repeated for credit as the subject matter changes.

## **GERM 340 - Business German**

**Credit Hours: 3**

Concentrates on the vocabulary of business in German-speaking settings and intercultural awareness between the US and German-speaking countries. The emphasis is on reading, writing, translating, and fundamental oral communication skills in business settings. The course focuses on business topics pertaining to industry, marketing, finance, social welfare, the consumer in general and the environment, in the context of German business culture.

Prerequisite: One 300-level German language course or permission of instructor

## **GERM 360 - Topics in German Language and Culture**

**Credit Hours: 1-3**

Provides an opportunity to study a linguistic, literary, or cultural topic related to the German-speaking world. Courses in topical areas not offered in the regular curriculum may be offered on a rotating basis.

Prerequisite: Sophomore standing and permission of instructor

Repeatability: The course may be repeated for credit as subject matter changes.

## **GERM 431 - German Culture Seminar**

**Credit Hours: 3**

Provides the advanced student an opportunity to study in depth an aspect of Germanic culture, which may include: literature, art, cinema, business culture, or another approved topic. The course serves as a capstone for the German major.

Prerequisite: Two German courses numbered above 302, at least one of which is taught in German, or permission of instructor.

## **HIST 101 - Topics in History**

**Credit Hours: 1-3**

Provides an in-depth look at a historical event, person, movement, or topic accessible to first and second-year students. Course readings will include both secondary sources and a wide variety of primary sources (e.g. written, visual, oral, audio, video, material culture). It combines a lecture-discussion format to the initial period (1-2 credits) with an opportunity for students to engage in direct research (1 credit) for the last several weeks of the semester. This directed research can take a variety of forms (paper, blog, podcast, film, etc.).

## **HIST 105 - United States History to 1877**

**Credit Hours: 3**

Covers the period from the first Native American settlements to 1877, emphasizing the origin of the United States and the rise of democratic ideas and institutions.

## **HIST 106 - United States History since 1877**

### **Credit Hours: 3**

Deals with the period 1877 to the present, emphasizing the development of the United States as an industrial and a world power.

## **HIST 110 - Pre-Modern World History**

### **Credit Hours: 3**

Surveys selected aspects of World History from the beginning of civilization to the fourteenth century CE. Traces the political, economic, intellectual and cultural institutions and trends of various world societies of Asia, Africa, the Middle East, Europe and the Western Hemisphere.

## **HIST 111 - The Emergence of the Modern World I**

### **Credit Hours: 3**

Surveys selected aspects of World History from the fourteenth to the eighteenth century. Traces the political, economic, intellectual, and cultural institutions and trends of various world societies of Asia, Africa, the Middle East, Europe, and the Western Hemisphere.

## **HIST 112 - The Emergence of the Modern World II**

### **Credit Hours: 3**

Surveys selected aspects of World History from the eighteenth century to the present. Traces the political, economic, intellectual, and cultural institutions and trends of various world societies of Asia, Africa, the Middle East, Europe, and the Western Hemisphere.

## **HIST 200 - History Career Field Experience**

### **Credit Hours: 1-3**

This course allows students the opportunity to explore a variety of history-related career opportunities, enhance their professionalism, and develop a career network through visits to various sites (typically within driving distance of Muskingum University's campus). Students will be required to attend classes prior to a field visit to discuss a selected site's content, public history contribution and methodology, and the career possibilities to be highlighted. Faculty will evaluate each student based upon their discussion participation and written responses to assigned course readings, written reflections about the sites visited, follow up correspondence with selected sites' staff members, and development of professional portfolio.

Prerequisite: 28 earned credit hours and declared History major or minor, or permission of instructor. Due to this additional field experience, there may be additional costs associated with this course.

Note: Students may earn 1 credit hour per experience, with the possibility of 3 experiences per semester, and an allowance for 4 credit hours applying to graduation requirements. Students receive one credit hour for 40 hours of work.

## **HIST 220 - US Women's History**

**Credit Hours: 3**

Explores the history of American women from the colonial period to the present. Course topics address the changing political, social, and economic views of women's roles and responsibilities over time; the challenges and discrimination women faced (and continue to face) in the struggle to attain equal rights; and the diversity of women's experiences across race, ethnicity, class, and religion. Three of the most important questions that inform the course are: 1.) How did the "ideal" vision of womanhood mask the diversity of women's lives? 2.) Did all women share the same goals when it came to their position in American life? 3.) Did the passage of time always signal progress? Students use a survey text of American women's history and a host of primary source documents from the time periods under study as they read, write about, and discuss the topic over the course of the semester.

**HIST 230 - The American Civil War****Credit Hours: 3**

Employs a wide variety of secondary and primary sources to examine the causes, development and consequences of the American Civil War.

**HIST 240 - The Holocaust****Credit Hours: 3**

Provides an overview of the state-sponsored murder of millions of Jews and non-Jews by the Nazis and their collaborators during World War II. It examines important historical factors that occurred before the Third Reich's rise to power, the development of policies aimed at Jews and other "undesirable" elements of the population and how those persecuted responded to them, the path of the Final Solution, and the aftermath and legacy of the Holocaust.

**HIST 245 - The First World War****Credit Hours: 3**

Provides an overview of the conflict, beginning with the war's origins and includes its global reach, particularly through the colonial empires of the European powers. It traces the path of the conflict from 1914-1918, focusing on major battles on land and at sea, and discusses the major military innovations of this era. It examines changes on the home front as well as how the home front had an impact on the war front and vice versa. It analyses the war's political, demographic, and cultural impact, including its representations in literature, poetry, and film.

**HIST 250 - Study Abroad Seminar****Credit Hours: 3**

The opportunity to study outside the United States enhances student's knowledge and understanding of history and world cultures. In conjunction with an approved study abroad trip, students will attend pre-trip informational and organizational meetings. While traveling, they will complete readings and/or written work and participate in group discussions. Upon return, students will submit a reflection paper that describes their activities, discusses their experiences and considers what was learned (both during organized excursions and more information activities).

**HIST 260 - The Cold War in the Americas****Credit Hours: 3**

Examines the influence of the Cold War on Latin America and the United States, seeking to understand the complex and often fraught relationship between Washington and the nations of Latin America. After tracing the evolution of hemispheric relationships from independence to the mid twentieth century, the class explores how the ideological battle between communist and anti-communist forces shaped the development of regional relationships in the Americas. Revolution, guerilla warfare, counter-insurgency, as well as everyday struggles over press freedom and foreign investment, shaped the lives of Americans north and south of the equator. Students will encounter the changing historiography of US-Latin American relations, learning not only about policy choices and responses at the government level, but also how the Cold War shaped the way that the peoples of Latin American and the United States viewed one another, and how culture was shaped by these interpretations.

## **HIST 271 - Race, Ethnicity, and Identity in the Americas**

**Credit Hours: 3**

This course investigates the construction and conceptualization of race, ethnicity, and other markers of identity across the Americas through the evaluation of primary and secondary sources, ranging from historical monographs to novellas to film clips to oral histories. The course establishes the historical underpinnings of contemporary topics related to race, ethnicity, and identity and asks students to demonstrate historical thinking in their assessment of links between the past and the present.

## **HIST 300 - Historical Research Methods**

**Credit Hours: 3**

Introduces students to the basic skills of historical research and writing. The skills include using databases, locating and evaluating primary and secondary sources, developing a thesis, employing evidence, and proper citation.

Prerequisite: Completion of two of the following courses: HIST 105, HIST 106, HIST 111, HIST 112

## **HIST 310 - Ancient History**

**Credit Hours: 3**

Provides an overview of the history of western civilization between c. 4000 BCE and 500 CE. Topics include political institutions, belief/religion, intellectual culture, interactions between societies, and daily life in Mesopotamia, Egypt, Greece, and Rome. It also traces the transformation from Antiquity to the Middle Ages and the role of the so-called barbarians in this transition.

## **HIST 318 - Nineteenth Century Europe**

**Credit Hours: 3**

This course covers the long nineteenth century (1789-1914), beginning with the French Revolution and its short and long-term political, social, economic, and cultural implications, including Napoleon. Course materials focus on examining the key building blocks of the First and Second Industrial Revolutions and explaining their political, social, economic, and cultural impact; the emerging ideologies of the nineteenth century (conservatism, liberalism, socialism, and Marxism) and how these interacted through the Revolutions of the 1820s, 1830, and 1848; the development of modern nationalism and its implications for power shifts and state building within Europe; the goals, methods, and justifications for European imperialism and its impact both on mother countries and colonies; and the shifts in gender roles, societal organization, and government control and their implications.

## **HIST 320 - Twentieth Century Europe**

### **Credit Hours: 3**

This course covers European History from 1914 through the end of the twentieth century. Course materials focus on the causes, path, and results of the First World War and its longterm legacy for Europe; the development of totalitarian states across Europe in the interwar period, including both fascist and communist regimes; the causes, path, and results of the Second World War; the development, expansion, and demise of the Cold War from political, economic, cultural, and social perspectives; the processes of European mother countries attempting to hold on to and/or divest themselves of their colonial empires and the long-term implications thereof; the pivotal role of the 1960s as a decade of protest and resistance against systems of authority across Europe and its long-term consequences; and the path and results of European integration and the revolutions of 1989.

## **HIST 322 - Gender and History**

### **Credit Hours: 3**

Introduces students to the use of gender as a historical category of analysis. It encourages students to integrate theory and practice to explore both historical sources (primary and secondary) and historical explanations more deeply through the lens of gender. It explores the social constructions of categories such as feminine and masculine and examines how these binary divisions have had an impact on people, policies, and institutions. It probes the relationship between these categories of analysis and constructions of power and examines how gender has influenced societal constructions of hierarchy, asymmetry, and difference. Topics will include witch trials, industrialization and its impact on work, dueling, reproductive rights and control, betrothal and marriage rituals, civil rights and civil liberties, imperialism, genocide, consumer culture, and wartime experiences. While the focus of this course is on gender, it also includes the diversities of ethnicity, age, and sexual orientation.

## **HIST 344 - East Asian History to 1800**

### **Credit Hours: 3**

Examines the origins and development of traditional civilizations of China and Japan to the 19th century. This course emphasizes the development of the Confucian state and society, the rise of Imperial China, the emergence of aristocratic culture in Japan, the transition to Samurai rule, and early contact with the West.

## **HIST 345 - The Second World War**

### **Credit Hours: 3**

Examines the origins, course, and impact of the Second World War. Beginning with an investigation of the causes leading up to the war, it traces the conflict through the major military campaigns, giving attention to operations in Europe, North Africa and the Pacific. The course examines strategic, doctrinal, and technological developments as well as the war's impact on civilian populations and the manner in which the conflict transformed selected economic, social, cultural and political realities of domestic life for the major combatants.

## **HIST 346 - Southeast Asian History**

### **Credit Hours: 3**

Covers the development of Southeast Asia (Indonesia, Malaysia, Singapore, Thailand, Vietnam, Cambodia, Laos, Burma, the Philippines, and East Timor) in the historical context of conflict between the indigenous societies and the

global community of the colonial powers. The course contextualizes and examines the pre-colonial order, the colonial powers in SEA, World War II, and post-war independence movements. Political, social, and intellectual trends with an emphasis on the diversity of experiences are highlighted, but the course is intended as an introduction to a broad and diverse region of the world.

## **HIST 347 - Modern China**

### **Credit Hours: 3**

Examines China's evolution from an imperial state to a revolutionary society dominated by the Chinese Communist Party. Attention is paid to political attitudes and elements of society and culture in contemporary China that reflect links to a past that remained influential both as an inspiration and a stumbling block as China remade itself in the twentieth century. In addition, the course explores discontinuities in modern Chinese history brought about by wars, imperialism, revolution, industrialization, and the other forces that decisively altered the underpinnings of Chinese society. This course's reading and lectures are built upon five major themes: foundation and success of early Qing dynasty, peasant rebellion and Western imperialism, reform and revolution in the twentieth century, Republican China and its challenges, and the birth and development of the PRC.

## **HIST 348 - The Western Impact on Modern Japan**

### **Credit Hours: 3**

Explores the three ways Japan has become an empire during the past two centuries: through the restoration of imperial rule in the nineteenth century, through its imperialist expansion in Asia during the early twentieth century, and through its emergence as a global economic power in the post-War order. To understand these developments, one must examine the interplay between the internal dynamics of change in Japanese society, culture, and politics, on the one hand, and the impact of the West on Japan during these formative events. This course addresses how indigenous changes in Tokugawa Japan interacted with pressure from Western Imperialism to cause the imperial restoration and reforms as well as addressing the relationship between Japan's imperial expansion and rule at home.

## **HIST 350 - Colonial Latin America**

### **Credit Hours: 3**

Examines the process of encounter between the Old and New Worlds. It focuses initially on Pre-Columbian and Iberian societies prior to 1492, and it examines the social, political, cultural, and economic impact of Spanish and Portuguese colonizations in South America. It devotes particular emphasis to countries such as Mexico, Peru, and Argentina from the colonial to the national periods.

## **HIST 351 - Modern Latin America**

### **Credit Hours: 3**

Emphasizes the historical developments which followed political independence in 1810. It centers around the impact of Iberian colonization on contemporary forms of political, social, and economic organization in both Meso- and South America. Themes such as development, social inequality, racial identities, imperialism, and authoritarianism surface frequently as the course moves into the contemporary period.

## **HIST 352 - Latin America Film and History**

**Credit Hours: 4**

Studies film as a means to understanding the history of the region. Using film critique and analysis, as well as primary documents and secondary sources, students examine the ways in which films illuminate important themes in Latin American history. Topics include indigenous societies, the European conquest, African slavery, immigration, the relationship between Latin American nations and the international community, and the role of race, gender, and ethnicity in the creation of national identity.

**HIST 353 - History of Mexico, Pre-Columbian to Present****Credit Hours: 3**

Traces the history of this important Latin American country from the Pre-Columbian era to the present. It focuses on the merging of native groups, such as the Aztecs and the Mayans, with the Spanish colonizers, forming a unique society in the New World. Mexico's distinctive historical phases, from colonization to independence, are also closely examined to deepen the understanding of the 1910 Revolution and its course throughout the twentieth century.

**HIST 356 - History of Modern Africa****Credit Hours: 3**

Surveys the history of Africa with emphasis on sub-Saharan Africa in the period after 1800. Topics include state formation, African systems of belief, colonialism and its legacy, labor, migration, and the struggle against Apartheid in South Africa.

**HIST 360 - Historical Research Methods****Credit Hours: 1-3**

Provides advanced undergraduates with the opportunity to conduct independent research. This research can include deep reading and writing on a specific historical topic or theme that is not offered within the regular curriculum, working with a faculty member on a collaborative research project, and/or conducting research either on campus or off-site for a specific project.

Prerequisite: HIST 300

**HIST 372 - Empires of North America****Credit Hours: 3**

Examines the colonization and conquest of North America from the sixteenth through the nineteenth centuries. The course employs a comparative approach to the study of North American empires in this era, examining their internal governance and interactions with their neighbors. The course examines both empires constructed by indigenous peoples, such as the Comanche and Iroquois empires, as well as those constructed by European nations, such as the British, French, Spanish and Dutch empires in North America.

**HIST 374 - Ohio History****Credit Hours: 3**

A survey of the economic, cultural, political, and social history of Ohio, from prehistoric time to the present.



## **HIST 375 - Nearby History**

**Credit Hours: 4**

Provides students with the opportunity to produce histories of local subjects while employing a range of sources. These will include conventional text, image and data-based sources, but the course will require the student to read the built and natural landscapes around them as texts. The course will take place in the classroom but also includes three full Saturday sessions in the field at different locations around the region and state.

## **HIST 376 - The American Revolution**

**Credit Hours: 3**

Examines the American Revolution broadly, from 1763-1815. It examines the sources of conflict in Britain's North American empire, the decision of thirteen British colonies to seek independence, and the gradual emergence of a distinct American national identity. It also explores the progress of the war on the military front and the efforts to secure and stabilize the Revolution by political means in the years after independence was achieved. The course ends with a discussion of the War of 1812 as an epilogue to the American Revolution.

## **HIST 378 - Gender and Sexuality in American History**

**Credit Hours: 3**

Evaluates the changing interpretations of gender and expressions of sexuality in American history from the time of first contact between Europeans and Native Americans. Introducing students to the idea that gender is not a fixed category but rather a concept shaped by culture, the course examines a variety of populations and time periods in US history to highlight the changing understandings of masculinity, femininity, gender identity, and sexual behavior

## **HIST 379 - Youth in Modern America**

**Credit Hours: 3**

Investigates US history through the lens of youth experiences. This course examines media, education, and the marketplace to illuminate the changing understandings and expectations of the youth population. The shared - and sometimes conflicting - messages of these influences reveal goals, tensions, and contradictions of broader American culture and society.

## **HIST 380 - The History of the American Dream**

**Credit Hours: 3**

Traces the evolution of the concept of the American Dream from the time of the nation's founding to the present day. Examining elite culture and political views as well as individual perspectives, the course investigates populations who enjoyed easy access to benefits of the Dream as well as those who found the Dream elusive or unfulfilling. Establishing the Dream as a flexible ideal, interpreted and reinterpreted across generations, this course allows students to develop an argument about the Dream's core components through the exploration of primary source evidence.

## **HIST 381 - 1950s America**

**Credit Hours: 3**

Analyzes the history of the 1950s through the lenses of an idealized American Way of Life, alternatives to that ideal, and as a product of historical memory. Topics include suburbanization; the nuclear family and domestic life; expectations of sex and gender; the influence of popular and material culture; generational tensions; the Cold War; and Civil Rights and other rights-based movements. Through examination of historians' evaluations and primary source evidence of the time period under study, this course allows students to identify how historical narrative and popular views of the past are constructed - both by those living during the time and those who look back on the era.

### **HIST 382 - 1960s and American Film**

**Credit Hours: 4**

Evaluates the history of 1960s America with primary focus on social and cultural reflections of contemporary issues via major motion pictures of the time. Analysis and review of the films are informed by historical investigation of the 1960s as a whole. The course is intended both to complicate and complement popular views of the decade as students consider major themes that shaped American film: racial conflict and Civil Rights; the Cold War; and challenges to conventional ideas and established authority. Students think critically about assigned films and evaluate them - via both written work and class discussion - as primary source evidence of 1960s America.

### **HIST 385 - American Environmental History**

**Credit Hours: 3**

Studies human societies and their relationship to their environment over time. The focus is on the environmental history of North America from pre-Columbian times to the present. Topics explored include the Columbian exchange, evolving concepts of man's relationship to nature, the government's role in conservation and preservation, and the emergence of an environmental movement in recent decades.

### **HIST 390 - Topics in History**

**Credit Hours: 3**

Deals with selected topical courses such as Early Warfare or Conspiracy in US History.

### **HIST 395 - Public History and Memory**

**Credit Hours: 3**

Allows students to critically examine the past as it is presented in sites of public commemoration. These may include national historic parks, battlefields, museums, living history sites and public monuments. The course is offered only as a part of University approved domestic and foreign study trips.

### **HIST 398 - Internship in History**

**Credit Hours: 1-3**

Designed to offer students supervised history-related work experience.

Prerequisite: Prior permission of the instructor

### **HIST 420 - Readings in History**

**Credit Hours: 3**

Permits students to explore historical topics in depth under the direction of a faculty member.

Prerequisite: Junior or senior History majors or permission of the instructor

**HIST 460 - History Research Seminar**

**Credit Hours: 3**

Emphasizes methodological and bibliographical research techniques in the discipline of history. Students research and write on specific topics to meet acceptable standards of historical analysis and style.

Prerequisite: Junior or senior History majors or permission of instructor

**HLSC 101 - Introduction to Health Sciences**

**Credit Hours: 1**

Designed to orient students to various fields of study in the Health Sciences. The course explores health, fitness, exercise, and management professions. Emphasis is on wellness, acute care, long term care, public health and personal fitness.

**HLSC 110 - Medical Terminology I**

**Credit Hours: 1**

Provides a basic overview of the medical language and terminology used by health care professionals. Basic word roots, prefixes and suffixes, terms denoting human body orientation, and terms related to specific organ systems, are examined.

**HLSC 111 - Medical Terminology II**

**Credit Hours: 1**

Builds on the prefixes, suffixes, and word roots mastered in Medical Terminology I by exposing students to additional medical vocabulary, including signs, symptoms and diseases, medical procedures, and pharmacology related to the various organ systems. Students are also exposed to common abbreviations used in medical records.

Prerequisite: HLSC 110

**HLSC 151 - Global Health**

**Credit Hours: 3**

Provides an overview of major issues in global health, including equity, social justice, concern for the poor and the marginalized, and the importance of value for money from investments in health. Students gain a better understanding of the progress made in addressing global health problems, as well as remaining challenges and what must be done to address them.

Prerequisite: HLSC 110

## **HLSC 201 - Introduction to Health Administration**

### **Credit Hours: 3**

This course provides a foundation in health administration. The course introduces them to the structure and functions of the U.S. Health Care System. The course introduces the challenges of administration within the U.S. Health Care System as influenced by the community and its environment. An introduction to models of management within health care is covered as well.

## **HLSC 301 - The American Health Care System**

### **Credit Hours: 3**

Explores the major themes and issues of health care in the U.S. including health care policy, finance, risk management and quality improvement, government regulations, and the insurance industry.

## **HLSC 304 - Statistics for the Health Sciences**

### **Credit Hours: 3**

Provides the foundations of statistics with special application for students in the health sciences. Topics include both descriptive and inferential statistics, probability theory and research design. Emphasis is placed on understanding how statistics are used by health practitioners and interpreting the results.

## **HLSC 305 - Health Informatics**

### **Credit Hours: 3**

Explores the use of information technology in health care practice, education, administration, and research. Topics addressed include how and why information systems are developed and used, the identification and utilization of informatics approaches and tools, as well as how data is acquired, processed, generated, and disseminated.

MAP Only: X

## **HLSC 307 - Health Communication and Promotion**

### **Credit Hours: 3**

Provides a basic overview of the role communication plays in shaping health promotion and disease prevention messages to individuals, groups and the general public. The role of mass media in health communication and promotion is explored. Goals and strategies of health promotion are reviewed along with evaluation activities. Students are expected to identify a specific population and develop a health promotion project for that group.

## **HLSC 308 - Community Health**

### **Credit Hours: 3**

This course studies the health problems affecting entire communities and school settings, with particular focus on environmental issues, communicable disease control, and risks of community living. Specific emphasis is placed on the role of public health agencies in health promotion and disease prevention.

## **HLSC 312 - Social Gerontology**

### **Credit Hours: 3**

Provides an overview of the processes of aging. Emphasis is placed on "typical" aspects of aging from three perspectives: the aging individual, the social context of aging, and societal responses to an aging population.

## **HLSC 315 - Public Health and Epidemiology**

### **Credit Hours: 3**

Provides an overview of the basic principles of public health and their application to the development of activities that benefit the health status of populations. Concepts of epidemiology, biostatistics, and health care planning, policy development and assessment are also examined.

## **HLSC 322 - Health Policy**

### **Credit Hours: 3**

Provides a comprehensive review of the health policymaking process and current debates. A historical perspective of health policy is reviewed. Students are introduced to the process of health policy development and implementation and have the opportunity to analyze a current policy and its effects on a health care organization or special interest group in their local community.

## **HLSC 326 - Health Care Finance**

### **Credit Hours: 3**

Provides a general overview of how the health care finance system works in the United States. Essential components of healthcare finance are explored. Students have an opportunity to analyze financial data, systems and processes and to identify performance improvement opportunities for enhancing revenue growth and expense reduction.

## **HLSC 330 - The Human Body: Structure and Function**

### **Credit Hours: 3**

Focuses on body organization, support and movement, and structural physiology. Topics include the chemical and cellular basis of human life, the integration of body functions and homeostasis, and the structure and function of the various body systems including nervous, endocrine, musculoskeletal, cardiovascular and integumentary.

MAP Only: X

## **HLSC 331 - Nutrition and Health**

### **Credit Hours: 3**

Provides a basic overview of the role nutrition and diet play in health. Fundamental aspects of nutrients and digestive processes are examined. Nutrition and its implications for disease are also addressed.

## **HLSC 340 - Instrumental Clinical Chemistry**

**Credit Hours: 3**

Focuses on the chemical theories and principles of instrumental analysis as they apply to clinical chemistry and the work of the clinical laboratorian. The topics covered will provide an understanding of the selection procedure, quality control, and quality improvement of analytical methods of analysis. The theoretical operation and applications of these analysis methods will be considered.

MAP Only: X

**HLSC 341 - Applied Clinical Biochemistry I****Credit Hours: 3**

Focuses on the theory and principles of clinical chemistry, and associated application and instrumentation especially as it pertains to disease states. Focus is on carbohydrate metabolism, protein function, endocrinology, and tumor markers.

MAP Only: X

**HLSC 342 - Applied Clinical Biochemistry II****Credit Hours: 3**

Focuses on the theory and principles of clinical chemistry, and associated application and instrumentation especially as it pertains to disease states. Focus is on acid base, electrolytes, home derivatives, lipids, therapeutic drug monitoring, drugs of abuse and toxicology.

MAP Only: X

**HLSC 345 - Personal Health****Credit Hours: 3**

This course studies the health problems and concerns of young adults in America today. Topics of study will include stress management, emotional health, chemical dependency, sexual responsibility, physical fitness, heart disease, cancer and communicable diseases. The primary focus will be upon prevention, with students being encouraged to make lifestyle choices conducive to lifelong wellness.

**HLSC 351 - Occupational Science****Credit Hours: 3**

Explores the tenets, vocabulary, and research within the field of occupational science. It is designed to prepare the student to utilize occupation-based assessment tools; and to use occupational science research to enhance clinical reasoning and develop basic occupational therapy programming.

Prerequisite: Permission of instructor

MAP Only: X

**HLSC 395 - Professional Seminar**

**Credit Hours: 1**

This course provides students with the skills, knowledge and preparation to become a professional in the health science field with a focus on health administration.

**HLSC 396 - Health Administration Internship****Credit Hours: 3-6**

For every credit hour students are required 40 hours of practical experience, written reflections, and other work in the field of Health Administration. Student will be placed with health care facilities under the direction of department faculty.

Prerequisite: HLSC 395

Note: Recommended for the junior year.

**HLSC 406 - Legal Issues in Healthcare****Credit Hours: 3**

Provides a basic understanding of healthcare law. Essential components of healthcare law will be addressed in accordance with how the law impacts the health system from a strategic and operational perspective. Students will have the opportunity to analyze and discuss specific cases that pertain to the topics covered. Best practice strategies for the prevention and management of legal claims will be provided.

MAP Only: X

**HLSC 408 - Topics in Health Sciences****Credit Hours: 3**

Selected courses which are not offered as part of the existing Health Science Department curriculum.

Prerequisite: Permission of the instructor

**HLSC 409 - Readings in Health Science****Credit Hours: 1-3**

Offers the student an opportunity to read extensively and discuss with department faculty topics not offered as a part of the existing Health Science Department curriculum.

Prerequisite: Permission of the instructor

**HLSC 415 - Advanced Epidemiology****Credit Hours: 3**

Provides an in-depth investigation into epidemiologic methods, building upon the foundations explored in HLSC 315. Both descriptive and analytical epidemiology are covered, including measures, study design, and data interpretation. The impact of ethical principles and public policy on the practice of epidemiology is also considered.

Prerequisite: PSYC 232 or HLSC 304; HLSC 315

### **HLSC 453 - Elder Cognitive Health & Wellness**

**Credit Hours: 3**

Designed to explore the factors that interplay and affect the functional cognitive ability of elder populations. This course focuses on the use of occupational profiles, interpretation of cognitive levels/scores, and implementation of adaptive strategies to optimize elder cognitive functioning.

Prerequisite: HLSC 351

MAP Only: X

### **HLSC 455 - Sensory Function Across the Lifespan**

**Credit Hours: 3**

Focuses on sensory systems, sensory processing, and the sensory basis of occupational engagement from birth through elder years. Students will review basic understanding and assessment of sensory processing, and learn methods for optimizing occupational engagement using sensory integrative and occupational adaptation approaches.

Prerequisite: HLSC 351

MAP Only: X

### **HLSC 495 - Seminar in Health Science**

**Credit Hours: 3**

A capstone course for students completing any of the Health Science majors. Students will engage in an in-depth research study or practicum that links together their general course work, their specialized training and their clinical experience. The topic will be selected in consultation with the supervising faculty member.

Prerequisite: Permission of Department Chair

MAP Only: X

### **HLSC 496 - Seminar in Public Health Studies**

**Credit Hours: 3**

A capstone for Public Health Studies majors. The student will engage in the development of a research proposal or public health practicum to provide a practical application of their general coursework. The research topic/practicum placement will be selected in consultation with the supervising faculty member.

Prerequisite: Permission of Department Chair

### **HLSC 497 - Seminar in Health Administration**

**Credit Hours: 2**

A capstone course for Health Administration majors. The student will engage in the development of a research proposal



or public health practicum to provide a practical application of their general coursework. The research topic/practicum placement will be selected in consultation with the supervising faculty member.

Prerequisite: Permission of Department Chair

## **HLTH 400 - Health Curriculum, Methods, and Materials**

### **Credit Hours: 3**

This course investigates the planning, organization, and how to use health education content and teaching strategies. Special emphasis is placed upon various types of curricular approaches that allow for teaching behaviors found to be conducive to learner achievement in health education.

Field Hours Requirement: 20

## **IDIS 160 - Introduction to Film Studies**

### **Credit Hours: 3**

Guides students through the basics of film studies. Course instruction includes such topics as cinema history, filmmaking techniques, and film criticism.

## **IDIS 230 - Emerging Leaders**

### **Credit Hours: 1**

Is an introductory leadership experience that helps students build and practice skills necessary to become effective leaders both while in college and in preparation for roles and responsibilities in future careers. This experience is led by University staff and/or faculty.

Note: Students may earn one credit hour per experience with a maximum of four credit hours applying to graduation. Graded S/U.

## **IDIS 240 - Introduction to American Studies**

### **Credit Hours: 3**

Offers an interdisciplinary study of the values, beliefs, cultures, and social systems of the United States and its many diverse populations. The course integrates a variety of methods and disciplines to help develop skills in critical analysis, communication, cultural knowledge, and self-reflection that contribute to students' desire to shape the world beyond the university setting. Through examination of popular, artistic, and political culture, market trends, and the public and private experience of Americans, past and present, the course explores the values and beliefs that have shaped the experience of American people across race, class, gender, ethnicity, and region.

## **IDIS 250 - Career Field Experience**

### **Credit Hours: 1-2**

Involves an introductory supervised experience in a vocational field. The experience is closely supervised by a faculty member and an on-site supervisor. This initial experience provides a gateway to a vocational and/or academic field and may serve as a preparation for future internships. Students may earn 1-2 credit hours per experience, with a maximum

of 4 credit hours applying to graduation requirements. Students receive one credit hour for 40 hours of work. Graded S/U.

Prerequisite: 28 earned credit hours and at least a 2.0 cumulative GPA

## **IDIS 260 - Topics in Film Studies**

### **Credit Hours: 1**

Explores in detail a specific topic, genre, or area of film studies. This seminar-style course combines required readings with viewings of selected films.

Note: Film studies minors are required to take this course twice.

## **IDIS 275 - Arts and Humanities in Western Culture**

### **Credit Hours: 3**

Fosters an appreciation of the landmarks of the Western cultural heritage in religion, philosophy, language and literature, the visual arts and architecture, music, and theatre.

## **IDIS 291 - Introduction to Gender Studies**

### **Credit Hours: 3**

Introduces selected topics in gender studies. Inclusive of all disciplines and team-taught by gender studies faculty, the course gives an orientation into the field through reading, writing, and discussion.

## **IDIS 300 - Internship**

### **Credit Hours: 1-6**

Involves a supervised experience in a vocational field related to a program of study. The program is closely supervised by faculty members and by an on-site director. Students may earn 1-6 credit hours for each distinct internship, with a maximum of 16 hours including, student teaching, applying to graduation requirements. Graded S/U.

Prerequisite: Junior standing, 2.5 GPA. The junior standing prerequisite is waived for students participating in Disney internships.

Note: Students may earn 1-6 credit hours for each distinct internship, with a maximum of 16 hours including, student teaching, applying to graduation requirements. Graded S/U.

## **IDIS 360 - Pre-Law**

### **Credit Hours: 1**

Is an analysis of the Law School Admission Test, the Law School Data Assembly Service, and the Law School Candidate Referral Service. Students take a sample examination under conditions approximating those of the LSAT.

Prerequisite: Junior standing

Note: Graded S/U.

## **IDIS 491 - Seminar in International Business**

### **Credit Hours: 3**

Enables the student to pursue an approved research project involving international business practice and theory. Students are strongly encouraged to work with advisors to develop seminar topics/approaches that synthesize language and business skills and that demonstrate appropriate intercultural competencies.

Prerequisite: Completion of the International Business major business core

## **IDIS 492 - Humanities Senior Seminar**

### **Credit Hours: 3**

Involves work necessary for the completion of the senior seminar, resulting in an extensive written research project in which the student formulates a question to study, proposes a thesis to be argued, and presents support for that thesis in the final paper.

## **INFR 310 - Foundations of Information Systems**

### **Credit Hours: 3**

Introduces students to contemporary information systems and the roles these systems play in modern organizations. The focus is on the key components of information systems (people, processes, data, and technologies) and the issues of building, acquiring, managing, and safeguarding information systems to create competitive advantage.

Prerequisite: Departmental Faculty Approval  
MAP Only: X

## **INFR 320 - IT Infrastructure**

### **Credit Hours: 3**

Focuses on the services and capabilities that IT infrastructure provides to an organization. It aims to provide knowledge and skills needed to communicate effectively with other IT professionals whose special focus is hardware and software technology. It emphasizes internet-based solutions, computer and network security, business continuity, and the role of infrastructure in regulatory compliance.

Prerequisite: INFR 310, CPSC 111  
MAP Only: X

## **INFR 330 - Systems Analysis & Design**

### **Credit Hours: 3**

Covers systematic approaches for analyzing a business problem or opportunity, determining what role, if any, information technology can play in addressing the business need, and articulating business and technical requirements for the information systems solution.

Prerequisite: INFR 310 and CPSC 365  
MAP Only: X

## **INFR 340 - Information Systems Project Management**

### **Credit Hours: 3**

Discusses the processes, methods, techniques, and tools that organizations use to manage information systems projects. This course covers a systematic methodology for initiating, planning, executing, controlling, and closing projects.

Prerequisite: INFR 310

MAP Only: X

## **INFR 410 - Enterprise Architecture**

### **Credit Hours: 3**

Explores the design, selection, implementation, and management of enterprise IT solutions and their fit with the business. Attention is given to the architectures (of applications and infrastructure) that support large and small organizations, and considers solutions both within and beyond the organization.

Prerequisite: INFR 310, INFR 340

MAP Only: X

## **INFR 495 - IS Strategy, Management and Acquisition**

### **Credit Hours: 4**

Explores the issues and approaches in managing the information systems function in organizations and how the IS function integrates / supports / enables various types of organizational capabilities.

Prerequisite: INFR 330, INFR 340, INFR 410

MAP Only: X

## **JOURN 101 - Journalism Practica**

### **Credit Hours: 1**

Provide laboratory or workshop experiences in journalism writing and design.

Restrictions: maximum of two Journalism practica hours per year; maximum of four Journalism practica hours toward major or minor.

Note: Registration is with the journalism coordinator at final registration.

## **JOURN 201 - Journalism Practica**

### **Credit Hours: 1**

Provide laboratory or workshop experiences in journalism writing and design.

Restrictions: maximum of two Journalism practica hours per year; maximum of four Journalism practica hours toward major or minor.

Note: Registration is with the journalism coordinator at final registration.

## **JOURN 207 - Print Writing and Reporting**

### **Credit Hours: 3**

Provides an introduction to the principles and concepts of writing and reporting for print media and the web. It involves reporting, interviewing, doing background research, writing, and analyzing news stories, and introduces students to journalistic ethics and codes of conduct.

Prerequisite: ENGL 121

Cross Listed As: ENGL 207

## **JOURN 208 - Editing and News Design**

### **Credit Hours: 3**

This course covers the fundamentals of copy editing, including proofreading, headline writing, caption writing, grammar, and punctuation. This course also introduces students to print and digital news design.

Prerequisite: JOURN 207

## **JOURN 219 - Photojournalism**

### **Credit Hours: 3**

Covers the use of digital photography in journalism, with a focus on journalistic storytelling, digital photo editing, and legal and ethical concerns for photojournalists.

Prerequisite: MEDIA 150 or permission of instructor

## **JOURN 301 - Journalism Practica**

### **Credit Hours: 1**

Provide laboratory or workshop experiences in journalism writing and design.

Prerequisite: Permission of Instructor

Restrictions: maximum of two Journalism practica hours per year; maximum of four Journalism practica hours toward major or minor.

Note: Registration is with the journalism coordinator at final registration.

## **JOURN 399 - Internship**

### **Credit Hours: 3**

Involves a supervised experience in the student's major. The program is closely supervised by faculty members and an on-site director.

Prerequisite: Junior standing, 2.5 GPA and instructor permission.

Cross Listed As: DMD 399, MEDIA 399, PBRL 399

Note: Credit counts as 3 of the 16 internship hours which may be applied to graduation requirements. Graded S/U.

## **JOURN 401 - Journalism Practica**

### **Credit Hours: 1**

Provide laboratory or workshop experiences in journalism writing and design.

Prerequisite: Permission of Instructor

Restrictions: maximum of two Journalism practica hours per year; maximum of four Journalism practica hours toward major or minor.

Note: Registration is with the journalism coordinator at final registration.

## **JOURN 495 - Seminar**

### **Credit Hours: 3**

Exposes students to an intensive study in a selected area of emphasis. The first four weeks are devoted to the development of a project prospectus. The remainder of the semester is given to independent study under the guidance of an appropriate instructor.

Prerequisite: MEDIA 308 and MEDIA 365

## **LIBR 220 - Beyond Google: Research Skills and Resources**

### **Credit Hours: 3**

Introduces students to research and information literacy skills, emphasizing the strategies needed for effective research in the digital age. Students learn to communicate the results of their research effectively and ethically.

## **LIBR 301 - Archival Research: Special Topics**

### **Credit Hours: 3**

Introduces students to the fundamentals of archives and archival research. Students then apply this knowledge as they conduct research within an archive (for example, Muskingum's, John Glenn's at Ohio State, or any number of online archives). Students will be introduced to the background information (historical, social, legal, etc.) necessary to contextualize the archival materials.

## **MATH 100 - Transitional Algebra**

### **Credit Hours: 2**

Develops algebraic concepts and skills needed to graph and solve linear equations and inequalities. Evaluating algebraic expressions and formulas according to the rules of operations is also developed. Not open to students with credit for a higher level math course.

Prerequisite: ACT Math 17 or below or SAT Math 470 or below

## **MATH 140 - Practical Statistics**

### **Credit Hours: 3**

Is an introduction to statistical ideas, reasoning, and methods with the goal of equipping students with the ability to carry out common statistical calculations and procedures in order to be able to understand how statistical concepts are applied in other fields of study and by future employers.

Prerequisite: MATH 100 or ACT Math 18 or higher or SAT Math 471 or higher

## **MATH 150 - Quantitative Reasoning for the Liberal Arts**

**Credit Hours: 3**

Studies various quantitative concepts in mathematics, such as sets, counting methods, probability, statistics, functions, matrices, graphs, and trees; and applies these concepts either to a variety of different disciplines or to a single subject centered on a theme. Not open to students with credit for 240.

Prerequisite: MATH 100 or ACT Math 18 or higher or SAT Math 471 or higher

## **MATH 170 - Applied College Algebra**

**Credit Hours: 3**

Develops algebraic concepts and skills concerning linear, quadratic, rational, and radical functions along with their equations and graphs. Algebraic concepts are applied to construct mathematical models. Not open to students with credit for a higher level math course.

Prerequisite: MATH 100 or ACT Math 18 or higher or SAT Math 471 or higher

## **MATH 180 - Precalculus**

**Credit Hours: 4**

Concentrates on preparing students with the concepts and skills that apply to the study of Calculus. Topics include polynomial, exponential, logarithmic, and trigonometric functions along with their equations and graphs. Concepts of analytic geometry are also developed. Not open to students with credit for a higher level math course.

Prerequisite: MATH 170 or ACT Math 21 or higher or SAT Math 546 or higher

## **MATH 190 - Calculus I**

**Credit Hours: 4**

Introduces the concepts of limit, continuity, derivative, integral, and applications. It assumes some knowledge of trigonometric functions and equations for lines and conic sections.

Prerequisite: MATH 180 or ACT Math 24 or higher or SAT Math 576 or higher

## **MATH 200 - Calculus II**

**Credit Hours: 4**

Continues the study of calculus and includes such topics as applications of integrals, methods of integration, logarithms, exponential, indeterminate forms, polar and parametric equations, and infinite series.

Prerequisite: MATH 190

### **MATH 230 - Linear Algebra and Vectors**

**Credit Hours: 3**

Includes the study of vectors, matrix algebra, vector spaces, linear transformations, and determinants.

Prerequisite: MATH 190

### **MATH 240 - Discrete Mathematics I**

**Credit Hours: 3**

This course introduces set theory, mathematical logic, basic proof techniques, number theory, counting and probability, and graph theory.

Prerequisite: MATH 180

### **MATH 250 - Discrete Mathematics II**

**Credit Hours: 3**

This course continues the study of topics introduced in MATH 240. This includes advanced proof techniques such as strong induction, the study of graphs and their applications, recurrence relations, advanced combinatorial techniques, or other topics as determined by the instructor.

Prerequisite: MATH 240

### **MATH 310 - Calculus III**

**Credit Hours: 3**

Includes the study of the basic concepts of calculus applied to functions of more than one variable such as 3-dimensional coordinate systems and graphs, vector products, partial and directional derivatives, multiple and path integrals. Related applications such as velocity, acceleration, curvature, mass, and work are also studied.

Prerequisite: MATH 200

### **MATH 320 - Differential Equations**

**Credit Hours: 3**

Includes the study of first and higher order differential equations, methods for obtaining solutions, and applications.

Prerequisite: MATH 200, MATH 230

### **MATH 330 - Algebraic Structures**



**Credit Hours: 4**

Includes the study of groups, rings, fields, vector spaces, and other related topics.

Prerequisite: MATH 230, MATH 250

**MATH 340 - Mathematical Statistics**

**Credit Hours: 3**

Includes the basic theory and applications of probability and statistics.

Prerequisite: MATH 200 MATH 240

**MATH 350 - Numerical Analysis**

**Credit Hours: 3**

Presents the concepts and methods of numerical solutions for mathematical problems and includes applications using the computer.

Prerequisite: MATH 200, MATH 230, CPSC 100

**MATH 360 - Geometry**

**Credit Hours: 3**

Presents the study of several geometries, including synthetic and metric Euclidean, non-Euclidean, projective, and finite geometries.

Prerequisite: MATH 240

**MATH 370 - History of Mathematics**

**Credit Hours: 2**

Surveys the history and development of mathematics from ancient times through to the present day. It shows the contributions made to the field by mathematicians from diverse ethnic, racial, and gender groups.

Prerequisite: MATH 190, MATH 230 , MATH 240

**MATH 410 - Analysis**

**Credit Hours: 4**

Presents a rigorous development of calculus and an introduction to real analysis.

Prerequisite: MATH 240, MATH 310

**MATH 420 - Complex Analysis**

**Credit Hours: 3**

Is an introductory study of the theory of functions of complex variables.

Prerequisite: MATH 310, MATH 320

**MATH 490 - Topics in Mathematics**

**Credit Hours: 3**

Studies, in greater depth, topics in the other listed courses.

Prerequisite: Permission of the instructor

**MATH 495 - Mathematics Seminar**

**Credit Hours: 1**

Provides a setting for the study and mastery of selected expository papers. Students lecture on the subject of the chosen paper and take an oral examination.

Prerequisite: Permission of instructor

**MBIO 211 - Topics in Molecular Biology**

**Credit Hours: 1**

Includes presentation and discussion of molecular biology topics of current interest and importance. This is a seminar-style course which provides the opportunity for students to gain an understanding of the field through general readings as well as the recent literature.

Repeatability: May be repeated once for credit.

**MBIO 411 - Topics in Molecular Biology**

**Credit Hours: 1**

A seminar-style course which examines in depth, through readings, discussions and presentations, important topics in the field. Molecular Biology majors must take the course for at least one credit.

Prerequisite: MBIO 211, BIOL 375, CHEM 214, CHEM 315

Note: May be taken for additional credit.

**MBIO 417 - Molecular Biology Seminar**

**Credit Hours: 2**

Involves library research in a molecular biological topic, related to the research to be conducted in MBIO 418. The course also features student oral presentations and a written paper related to the library and lab research.

Prerequisite: MBIO 211, BIOL 375, CHEM 214, CHEM 315

## **MBIO 418 - Research in Molecular Biology/Internship**

**Credit Hours: 4**

Builds on MBIO 417. Students may satisfy this requirement by conducting lab research in molecular biological problems in the science division, or with an internship which has the prior approval of the Molecular Biology faculty.

Prerequisite: MBIO 417

## **MEDIA 150 - Introduction to Convergent Media**

**Credit Hours: 3**

An introductory course which provides multimedia instruction to create content for convergent media audiences. This course teaches principal skills to prepare students to publish in audio, photo, print, video and web converged platforms. Conceptual, practical, and ethical frameworks for integrating traditional and new forms of media gathering, reporting, and storytelling are emphasized. This course provides hands-on training and critique to prepare students for Journalism, Media Production and Public Relations majors.

## **MEDIA 195 - Topics in Media**

**Credit Hours: 1-3**

This course is an introductory course focused upon a variety of subjects in media production. Topics such as video editing and cinematography may be offered.

Repeatability: This class may be repeated for credit as content changes, with up to 6 credit hours counting toward graduation.

## **MEDIA 210 - Media Literacy**

**Credit Hours: 3**

Examines the many ways in which media influence individuals and society. Students are introduced to the scholarly study of media effects and media theories. The media literacy perspective establishes the principle that the more one knows and understands how media affect people, including self, the better able the individual is to evaluate, control, and maximize appropriate media exposure and consumption. The course provides information about how audiences are influenced by and react to mediated messages.

## **MEDIA 215 - Introduction to Cinematography**

**Credit Hours: 3**

An introductory course where students learn to the basic fundamentals of visual storytelling. This includes theoretical, as well as hands-on production, in the following areas: camera equipment, lighting, composition, color, and post-production. Through class projects in and out of class, students will develop 21st Century skills to produce high-quality videos. Students will complete the course with the ability to film, light, and deliver multiple types of video projects.

## **MEDIA 225 - Introduction to Video Editing**

**Credit Hours: 3**

This is an introductory course focused on the theory and technique of digital film and video editing. Through practical lessons, and class projects, students will develop editing proficiency with Avid Media Composer editing software. Students will complete the course with the ability to finish the editing of multiple types of film and video projects.

**MEDIA 240 - Broadcast Writing and Reporting****Credit Hours: 3**

Emphasizes the production planning, writing, and scripting processes as the necessary first steps in preparing material for radio and television productions. Students write and deliver broadcast news and features, commercials, promotional announcements, and longer format programs.

Prerequisite: MEDIA 150

**MEDIA 300 - Visual Communication****Credit Hours: 3**

Introduces principles and theories of the study of two-dimensional images, specifically those developed with informational or persuasive intent. Students acquire visual literacy skills that will allow them to evaluate and critique messages. They demonstrate understanding by using electronic graphic and web design software to design an electronic portfolio of visual communication messages.

**MEDIA 308 - Single Camera Video Production and Editing****Credit Hours: 3**

Introduces single-camera production and editing techniques and their creative applications in various program formats. Pre-production planning and design, field production and nonlinear editing projects are emphasized. Students develop reasonable standards of criticism for their own work and that of others.

Prerequisite: MEDIA 240 or instructor permission

**MEDIA 312 - Electronic Media Structure and Content****Credit Hours: 3**

Surveys programming, economic, and structural issues in contemporary electronic media. The impact of new communication technologies on the traditional radio/television enterprises is also emphasized.

**MEDIA 350 - Study of Global Cinema****Credit Hours: 3**

This course provides an overview of world cinema with an emphasis on history and culture. The course examines landmark film classics as well as a selection of contemporary foreign-language films. The basic vocabulary and concepts of film studies are taught in order to give students tools for an in-depth analysis of the films.

## **MEDIA 365 - Audio Production**

### **Credit Hours: 3**

Introduces basic audio recording and editing techniques and their creative applications in electronic media production. Students develop reasonable standards of criticism for their own work and that of others.

Prerequisite: MEDIA 240

## **MEDIA 399 - Internship**

### **Credit Hours: 3**

Involves a supervised experience in the student's major. The program is closely supervised by faculty members and an on-site director.

Prerequisite: Junior standing, 2.5 GPA and instructor permission.

Note: Credit counts as 3 of the 16 internship hours which may be applied to graduation requirements. Graded S/U.

## **MEDIA 415 - Advanced Media Production**

### **Credit Hours: 3**

A project-oriented audio and video production class providing the opportunity for students to continue to develop skills learned in the introductory media production classes (see prerequisites below). The course emphasizes focused and methodical pre-production planning and scripting, production, and post-production refinement and evaluation as the necessary phases of the production process. Students work individually and in groups. Specific assignments and projects are determined by the instructor at the start of the semester, depending on the makeup of the class.

Prerequisite: MEDIA 150, MEDIA 308, MEDIA 365

## **MEDIA 420 - Media Law**

### **Credit Hours: 3**

Examines the legal structure and case law within which the media operate. The course surveys interpretations of the First Amendment, legal issues involving libel, privacy, newsgathering, electronic media regulation, obscenity, indecency, intellectual property, and advertising. While the course covers the history and development of media law, the emphasis is on contemporary legal issues in a digital media environment.

Prerequisite: MEDIA 210 or MEDIA 312 or instructor permission

## **MEDIA 495 - Seminar**

### **Credit Hours: 3**

Exposes students to an intensive study in a selected area of emphasis. The first four weeks are devoted to the development of a project prospectus. The remainder of the semester is given to independent study under the guidance of an appropriate instructor.

Prerequisite: COMM 360

## **MUSC 100 - Performance Seminar**

**Credit Hours: 0**

Concentrates on the skill of performance. Also included in the course is the continuous development of the critical listening skills needed for a music major or minor. Music majors, and minors who have course work still remaining, must register for MUSC 100 or MUSC 300.

## **MUSC 101 - Fundamentals of Music Theory**

**Credit Hours: 3**

A course designed to introduce the general college student to music reading and music theory, including structures of notation and basic elements: intervals, scales, meter, and rhythm. The course includes basic theory, ear training, and keyboard harmony and can be a preparatory course for the Materials of Music sequence.

## **MUSC 110 - History of Popular Music**

**Credit Hours: 3**

Introduces students to a historical and cultural perspective on trends in popular music of the 20th and 21st centuries in the United States.

## **MUSC 111 - Materials of Music I**

**Credit Hours: 4**

Introduces students to the fundamentals of music, structures of notation and basic elements: intervals, scales, and meter; rhythmic, melodic and harmonic progressions; and studies in part writing. In addition, this course introduces students to an overview of music literature in order to provide an understanding of the relationships among various styles of music.

Prerequisite: Departmental placement exam or instructor consent

## **MUSC 112 - Materials of Music II**

**Credit Hours: 4**

A continuation of MUSC 111.

Prerequisite: MUSC 111 or instructor consent

## **MUSC 115 - Aural Skills I**

**Credit Hours: 1**

Studies music based on the structure and aural recognition of intervals; meter; and rhythmic, melodic and harmonic progressions, through solfeggio; ear training, and written dictation. Students analyze structure and recognition of tertian harmony through keyboard application.

## **MUSC 116 - Aural Skills II**

**Credit Hours: 1**

A continuation of MUSC 115.

Prerequisite: MUSC 115 or instructor consent

## **MUSC 121 - Introduction to Music**

**Credit Hours: 3**

A survey course designed to introduce the general college student to aspects of music, music creating, and a broad spectrum of music literature and styles.

## **MUSC 131 - Brass Instruments**

**Credit Hours: .5-1**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation. Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges.

Note: Can only be taken twice.

## **MUSC 133 - Woodwind Instruments**

**Credit Hours: .5-1**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation. Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges.

Note: Can only be taken twice.

## **MUSC 135 - String Instruments**

**Credit Hours: .5-1**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation.

Note: Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges. Can only be taken twice.

## **MUSC 137 - Percussion Instruments**

**Credit Hours: .5-1**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation.

Note: Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges. Can only be taken twice.

**MUSC 140 - Diction for Singing**

**Credit Hours: 1**

Introduces vocal students to IPA (International Phonetic Alphabet), and its use in English, Italian, German and French lyric diction. Required for all first-year music education majors, music majors, music and musical theatre minors, with a vocal concentration.

**MUSC 141 - Voice**

**Credit Hours: .5-1**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation.

Note: Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges. Can only be taken twice.

**MUSC 143 - Keyboard**

**Credit Hours: 1**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation.

Note: Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges. Can only be taken twice.

**MUSC 145 - Composition**

**Credit Hours: 1**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation.

Note: Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges. Can only be taken twice.

**MUSC 149 - Jazz Improvisation**



**Credit Hours: 1**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation.

Note: Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges. Can only be taken twice.

**MUSC 150 - Piano Accompanying (major ensemble)****Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

**MUSC 160 - Southeastern Ohio Symphony Orchestra (major ensemble)****Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements. Can only be taken twice.

**MUSC 161 - Wind Ensemble (major ensemble)****Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements. Can only be taken twice.

**MUSC 162 - Concert Choir (major ensemble)****Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 163 - Choral Society**

### **Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 164 - Musical Theatre Workshop**

### **Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 165 - Campus Choir**

### **Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 166 - Chamber Singers**

### **Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 167 - Muskingum Valley Symphonic Winds (major ensemble)**

### **Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 168 - Jazz Ensemble**

### **Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 169 - Spirit Band**

### **Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 170 - Chamber Ensembles**

### **Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 181 - Introduction to Music Education**

### **Credit Hours: 2**

Provides an overview of the theories, methodologies, and philosophies of music education from 1700 to the present.

## **MUSC 190 - Piano Class I**

### **Credit Hours: 1**

A study of the basic keyboard skills necessary for careers in music.

Prerequisite: Instructor consent

### **MUSC 191 - Piano Class II**

**Credit Hours: 1**

A continuation of MUSC 190.

### **MUSC 211 - Materials of Music III**

**Credit Hours: 4**

A continuation of MUSC 112.

Prerequisite: MUSC 112 or instructor consent

### **MUSC 212 - Materials of Music IV**

**Credit Hours: 4**

A continuation of MUSC 211 and includes form and analysis and compositional techniques.

Prerequisite: MUSC 211 or instructor consent

### **MUSC 215 - Aural Skills III**

**Credit Hours: 1**

A continuation of MUSC 116.

Prerequisite: MUSC 116 or instructor consent

### **MUSC 216 - Aural Skills IV**

**Credit Hours: 1**

A continuation of MUSC 215.

Prerequisite: MUSC 215 or instructor consent

### **MUSC 281 - Woodwind Methods and Pedagogy**

**Credit Hours: 2**

Provides practical study of woodwind instruments with materials and methods of teaching.

### **MUSC 282 - String Methods and Pedagogy**

**Credit Hours: 2**

Provides practical study of string instruments with materials and methods of teaching.

**MUSC 283 - Brass and Percussion Methods and Pedagogy**

**Credit Hours: 2**

Provides practical study of the brass and percussion instruments with materials and methods of teaching.

**MUSC 284 - Voice Pedagogy and Practicum**

**Credit Hours: 2**

Introduces the fundamental concepts and implementation of vocal pedagogy practices through literature study, observation, singing, and applied pedagogy (guided teaching).

**MUSC 290 - Piano Class III**

**Credit Hours: 1**

A continuation of MUSC 191.

**MUSC 291 - Piano Class IV**

**Credit Hours: 1**

A continuation of MUSC 290.

**MUSC 295 - Piano Proficiency**

**Credit Hours: 0**

A performance examination of a music major's skills and is a department requirement.

Note: A grade of Satisfactory is noted on the transcript upon successful completion.

**MUSC 300 - Performance Seminar**

**Credit Hours: 0**

Concentrates on the skill of performance. Also included in the course is the continuous development of the critical listening skills needed for a music major or minor.

Note: Music majors, and minors who have course work still remaining, must register for MUSC 100 or 300.

**MUSC 301 - Topics in Music**

**Credit Hours: 1-3**

Provides the advanced student an opportunity to study selected topics in music. Examples of emphases could be church music, arranging, marching band techniques, diction, jazz, or pedagogy.

Prerequisite: MUSC 212

Repeatability: The course may be repeated as subject matter changes.

### **MUSC 302 - Topics in Music**

**Credit Hours: 1-3**

Provides the advanced student an opportunity to study selected topics in music. Examples of emphases could be church music, arranging, marching band techniques, diction, jazz, or pedagogy.

Prerequisite: MUSC 212

Repeatability: The course may be repeated as subject matter changes

### **MUSC 303 - Topics in Music**

**Credit Hours: 1-3**

Provides the advanced student an opportunity to study selected topics in music. Examples of emphases could be church music, arranging, marching band techniques, diction, jazz, or pedagogy.

Prerequisite: MUSC 212

Repeatability: The course may be repeated as subject matter changes

### **MUSC 310 - Excursions in World Music**

**Credit Hours: 3**

A survey of music genres from various cultures and ethnicities around the world. Emphasis is placed on the relationship between music and its cultural content.

### **MUSC 315 - Instrumentation**

**Credit Hours: 2**

A study of scoring techniques for band, choir, and orchestra.

Prerequisite: MUSC 212 or instructor consent and successful completion of the Junior Qualifying Exam.

### **MUSC 321 - Western Music History I**

**Credit Hours: 3**

A detailed study of music from antiquity through Mozart.

Prerequisite: MUSC 212 or instructor consent and successful completion of the Junior Qualifying Exam.

### **MUSC 322 - Music History II**

**Credit Hours: 3**

A detailed study of music from Beethoven through the present day.

Prerequisite: MUSC 212 or instructor consent and successful completion of the Junior Qualifying Exam.

**MUSC 331 - Brass Instruments**

**Credit Hours: .5-1**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation.

Prerequisite: Take MUSC 131 twice

Note: Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges. Can only be taken twice.

**MUSC 333 - Woodwind Instruments**

**Credit Hours: .5-1**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation.

Prerequisite: Take MUSC 133 twice

Note: Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges. Can only be taken twice.

**MUSC 335 - String Instruments**

**Credit Hours: .5-1**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation.

Prerequisite: Take MUSC 135 twice

Note: Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges. Can only be taken twice.

**MUSC 337 - Percussion Instruments**

**Credit Hours: .5-1**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation.

Prerequisite: Take MUSC 137 twice

Note: Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges. Can only be taken twice.

## **MUSC 341 - Voice**

**Credit Hours: .5-1**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation.

Prerequisite: Take MUSC 141 twice

Note: Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges. Can only be taken twice.

## **MUSC 343 - Keyboard**

**Credit Hours: 1**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation.

Prerequisite: Take MUSC 143 twice

Note: Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges. Can only be taken twice.

## **MUSC 344 - Commercial Recording**

**Credit Hours: 1**

A course designed to provide an introduction to the techniques of sound reinforcement and music recording through instruction and hands-on recording of department concerts and through the mixing of recorded tracks resulting in a CD.

## **MUSC 345 - Composition**

**Credit Hours: 1**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation.

Note: Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges. Can only be taken twice.

## **MUSC 347 - Conducting**

**Credit Hours: 1**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in



composition, conducting, and jazz improvisation.

Note: Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges. Can only be taken twice.

## **MUSC 349 - Jazz Improvisation**

### **Credit Hours: 1**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation.

Note: Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges. Can only be taken twice.

## **MUSC 350 - Piano Accompanying (major ensemble)**

### **Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 360 - Southeastern Ohio Symphony Orchestra (major ensemble)**

### **Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Prerequisite: Take MUSC 160 twice

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 361 - Wind Ensemble (major ensemble)**

### **Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Prerequisite: Take MUSC 161 twice

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 362 - Concert Choir (major ensemble)**

### **Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Prerequisite: Take MUSC 162 twice

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 363 - Choral Society**

### **Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 364 - Musical Theatre Workshop**

### **Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 365 - Campus Choir**

### **Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 366 - Chamber Singers**

### **Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles

(Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

### **MUSC 367 - Muskingum Valley Symphonic Winds (major ensemble)**

**Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

### **MUSC 368 - Jazz Ensemble**

**Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

### **MUSC 369 - Spirit Band**

**Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

### **MUSC 370 - Chamber Ensembles**

**Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

### **MUSC 371 - Conducting I**

**Credit Hours: 2**

The introductory course to conducting a musical ensemble. Emphasis is placed on beat patterns, left hand techniques, and musical leadership.

Prerequisite: MUSC 212, or instructor consent and successful completion of the Junior Qualifying Exam.

**MUSC 372 - Conducting II**

**Credit Hours: 2**

The advanced course in conducting a music ensemble. Emphasis is on rehearsal, visual representation of the aural score, analysis of performance problems, and performance and pedagogical literature.

Prerequisite: MUSC 371

**MUSC 382 - Music Education: Teaching General Music**

**Credit Hours: 2**

Focuses on methods, materials, objectives, skills, and instructional strategies for the development of basic musical concepts in the general music classroom in grades Pre-K-8. Specialized approaches of Dalcroze, Kodály, and Orff are studied.

Prerequisite: MUSC 212 or instructor consent and successful completion of the Junior Qualifying Exam.

Co-requisite: EDUC 301

Note: field observation hours for Pre-K-8 are included.

**MUSC 383 - Music Education: Teaching Vocal Music**

**Credit Hours: 2**

Studies the methods, materials, objectives, and instructional strategies for the teaching of vocal and choral music in grades 4-12.

Prerequisite: MUSC 212 or instructor consent and successful completion of the Junior Qualifying Exam.

Co-requisite: EDUC 301

Note: Field observation hours for grades 4-12 are included.

**MUSC 384 - Music Education: Teaching Instrumental Music**

**Credit Hours: 2**

Studies the administration and teaching of instrumental music in the schools (4-12) and the teaching of general music in grades 9-12.

Prerequisite: MUSC 212 or instructor consent and successful completion of the Junior Qualifying Exam.

Co-requisite: EDUC 301

Note: Field observation hours for grades 9-12 are included.

**MUSC 401 - Senior Recital**

**Credit Hours: 0**

Together with MUSC 445, is the capstone of the music or music education major. All students presenting a senior recital must be enrolled in the appropriate corresponding applied music course during the semester of the recital.

Prerequisite: MUSC 445, instructor consent

**MUSC 445 - Senior Seminar**

**Credit Hours: 1**

Together with MUSC 401, is the capstone of the music or music education major. The Senior Seminar focuses on research, analysis, and writing skills pertaining to the musical arts and the field of music education, and culminates in oral presentations and/or a major analytical research paper.

Prerequisite: Successful completion of the Materials of Music sequence; completion of MUSC 321; completion of or enrollment in MUSC 322; instructor consent.

**MUSC 482 - Music Education: Professional Semester in Elementary Education**

**Credit Hours: 5**

Involves students as practice teachers in an elementary school music program under the supervision and guidance of a cooperating teacher and Muskingum faculty member.

Prerequisite: MUSC 382, MUSC 383, MUSC 384

**MUSC 483 - Music Education: Professional Semester in Secondary Education**

**Credit Hours: 5**

Involves students as practice teachers in a secondary school music program under the supervision and guidance of a cooperating teacher and Muskingum faculty member.

Prerequisite: MUSC 382, MUSC 383, MUSC 384

**MUXP 101 - Muskingum Experience I: First Semester Seminar**

**Credit Hours: 1**

This course provides students with a common academic experience during their first semester at Muskingum. The course offers an extended orientation to the academic environment within a context of common readings, assignments, and activities. The course also introduces students to academic resources on campus and encourages students to engage in self-reflective practices.

**MUXP 151 - Muskingum Experience II Topics**

**Credit Hours: 1**

This course is designed to deepen your connections to Muskingum University and provide you with continued support and engagement. You will learn communication, self-presentation, and interpersonal skills that are transferable to all

classes and to your career after graduation as well as self-management skills, including financial literacy. The course covers resume writing and interviewing skills and shows you how to participate in high-impact experiences such as internships. Other topics may include leadership, citizenship, and healthy living.

Prerequisite: MUXP 101

## **NRSC 201 - Topics in Neuroscience**

### **Credit Hours: 1**

Is a seminar-style course team taught each semester by the Neuroscience faculty. It explores in detail a particular topic in the field through reading and discussion of recent published reports. Neuroscience majors must take the course three times.

## **NRSC 305 - Cognitive Neuroscience**

### **Credit Hours: 3**

Is a junior-level introduction to human cognition from neuroscientific and evolutionary perspectives. Students begin by learning the historical and philosophical antecedents of the field. Students then develop an understanding and appreciation for cognition and research methodology in the field; topics include perception, attention, memory, language, brain organization and plasticity, and the problem of consciousness.

Prerequisite: BIOL 112 and PSYC 281

## **NRSC 308 - Neuroscience Practicum**

### **Credit Hours: 1**

Is a "real world" introduction to current research topics in the discipline. Students conduct several laboratory projects in this course. They also attend the annual meeting of the Society for Neuroscience or a regional neuroscience conference and report on their experience.

Prerequisite: Junior standing and permission of instructor

## **NRSC 368 - Fundamental Neuroscience**

### **Credit Hours: 4**

Emphasizes basic neurophysiology, neurochemistry, synaptic function, coordinated organismal functions, and common neurological disorders. Laboratory emphasizes neuroanatomy.

Prerequisite: BIOL 108, BIOL 112, BIOL 226

Cross Listed As: BIOL 368

## **NRSC 386 - Neuropharmacology**

### **Credit Hours: 4**

Provides basic explanations concerning how drugs act in the brain. The primary focus will be at the cell/molecular level with a lesser focus on the effects at the organismal level.

Prerequisite: BIOL 108, BIOL 112, BIOL 226, CHEM 111, CHEM 112

## **NRSC 407 - Neuroscience Research I**

### **Credit Hours: 3**

Part of a three-semester sequence of courses in an independent study program designed to provide opportunities to practice inquiry and discovery while intensively investigating a fundamental problem in neuroscience. In the first semester, students search the current scientific literature related to their topic and prepare a review paper and a research proposal. During the senior year, the students conduct an original investigation and produce both a scientific paper and an oral presentation.

Note: They also present a poster at the Annual Science Poster Session.

## **NRSC 408 - Neuroscience Research II**

### **Credit Hours: 2**

Part of a three-semester sequence of courses in an independent study program designed to provide opportunities to practice inquiry and discovery while intensively investigating a fundamental problem in neuroscience. In the first semester, students search the current scientific literature related to their topic and prepare a review paper and a research proposal. During the senior year, the students conduct an original investigation and produce both a scientific paper and an oral presentation.

Prerequisite: NRSC 407

Note: Students present a poster at the Annual Science Poster Session.

## **NRSC 409 - Neuroscience Research III**

### **Credit Hours: 2**

Part of a three-semester sequence of courses in an independent study program designed to provide opportunities to practice inquiry and discovery while intensively investigating a fundamental problem in neuroscience. In the first semester, students search the current scientific literature related to their topic and prepare a review paper and a research proposal. During the senior year, the students conduct an original investigation and produce both a scientific paper and an oral presentation.

Prerequisite: NRSC 408

MAP Only: Students present a poster at the Annual Science Poster Session.

## **NURS 125 - Foundations in Professional Practice I**

### **Credit Hours: 1**

The course is an introduction to the theoretical concepts and foundational principles of nursing. The course will present the practice of nursing as defined and described in the program's philosophy statement and key concept definitions.

Prerequisite: Direct admit to nursing or admitted as a "pre-nursing" student

## **NURS 126 - Foundations in Professional Practice II**

**Credit Hours: 1**

The course is an introduction to the theoretical concepts and foundational principles of nursing as defined and described in the program's philosophy statement and key concept definitions. A professional nursing e-portfolio will be introduced that will continue throughout the nursing program and conclude in the senior capstone course NURS 487.

Prerequisite: Direct admit to nursing or admitted as a "pre-nursing" student

**NURS 226 - Health Assessment****Credit Hours: 3**

Is designed to systematically teach the knowledge and skills needed to perform a comprehensive health history and physical assessment on the adult client. Content related to the techniques of inspection, palpation, percussion and auscultation are taught. Utilization of assessment data that includes physiological, psychosocial, developmental and genetic factors, and skills within diverse cultures in multiple health care settings are emphasized. The analysis of assessment data enables students to enhance clinical reasoning, decision making and communication skills. Students have the opportunity to practice and demonstrate assessment skills learned in the laboratory setting.

Prerequisite: Must meet all nursing progression requirements

**NURS 227 - Fundamentals of Nursing Practice****Credit Hours: 4**

Introduces theories, principles and concepts relative to basic fundamental nursing practice. Students utilize concepts and content taught in the arts and sciences, including health assessment, to begin developing critical thinking skills and nursing care planning in accordance with the nursing process. Psychomotor and interpersonal communication skills are taught, along with principles of safety and infection control using evidence based practice concepts. Students learn and practice psychomotor skills in the nursing laboratory prior to performance in the clinical agency to which they are assigned.

Prerequisite: Must meet all nursing progression requirements

**NURS 230 - Pharmacology****Credit Hours: 3**

The focus of this course emphasizes pharmacodynamics and clinical uses of various classes of drugs in the healthcare setting. Drugs discussed include those used for hypertension, infection, cancer, pain and diseases of the cardiovascular, renal, respiratory, endocrine, gastrointestinal and central nervous systems. This is a theory only course.

Prerequisite: Must meet all nursing progression requirements

**NURS 251 - Introduction to Clinical Practice in Medical-Surgical Nursing****Credit Hours: 7**

Introduces the nursing process of caring for adults and their family with acute and chronic health alterations. The student uses the nursing process to care for the adult medical-surgical patient and their family in a holistic manner using information based on current evidence-based practice. A combination of classroom, laboratory and clinical teaching strategies are used to introduce nursing concepts and content related to physiological adaptation, psychosocial



integrity, pharmacological therapy, cultural competence, ethical practice and leadership. Professional communication using oral, written and information technology is expected.

Prerequisite: Must meet all nursing progression requirements  
Co-requisite: NURS 230

### **NURS 330 - Transitions in Professional Practice (RN-BSN)**

**Credit Hours: 3**

This course provides an introduction to the Bachelor of Science in Nursing philosophy at Muskingum University. Aspects of professional nursing practice will be addressed, including scope of practice, nursing process, cultural awareness, communication applications, writing standards, presentation development, collaboration, and the use of informatics to facilitate proficiency in Evidence Based Practice (EBP).

Prerequisite: Admission to the RN to BSN program track

### **NURS 335 - Health Assessment (RN-BSN)**

**Credit Hours: 3**

This course increases knowledge and skills in performing the client health history and physical assessment. Utilization of assessment skills and data collection across the lifespan, within diverse cultures, and in multiple health care settings will be emphasized. The analysis and synthesis of assessment data will enable students to enhance clinical reasoning, decision-making and communication.

Prerequisite: Admission to the RN to BSN program track

### **NURS 340 - Nursing Research**

**Credit Hours: 3**

Introduces the basic skills necessary to critique nursing research. Focuses on research methodology, interpreting research articles and evaluating the usefulness of findings for evidence-based nursing practice. This is a theory only course.

Prerequisite: Must meet all nursing progression requirements

### **NURS 351 - Clinical Practice in Medical-Surgical Nursing**

**Credit Hours: 7**

Students are expected to apply nursing knowledge and use critical thinking skills based on evidence-based nursing practice to care for adults and their family with acute and chronic health alterations. A combination of classroom, laboratory and clinical teaching strategies are used to continue building from prior program coursework on the concepts and content related to physiological adaptation, psychosocial integrity, pharmacological therapy, culture competence, ethical practice and leadership. Professional communication using oral, written and information technology is expected.

Prerequisite: Must meet all nursing progression requirements

### **NURS 360 - Mental Health and Family Nursing**

**Credit Hours: 4**

The purpose of this course is to apply the concepts of mental health to individuals and groups. The concepts to be emphasized include therapeutic communication, caring, cultural competence, evidence-based research practices and leadership/management affecting selected mental health alterations. This course includes theory and clinical practice.

Prerequisite: Must meet all nursing progression requirements

Prerequisite or Corequisite: Must meet all nursing progression requirements.

**NURS 375 - Nursing Care of Parents, Newborns and Children****Credit Hours: 8**

This course addresses the needs of child-bearing parents, newborns and children as they progress through the stages associated with health promotion, wellness and illness in normal age related changes, pregnancy, child development and rearing from conception through adolescence. The student uses critical thinking skills in the application of the nursing process with parents, families in childbirth, postpartum, and newborns through adolescence. Nursing implications relevant to physiological, developmental and genetic factors that influence the care of parents and children are covered. The nursing lab provides students the opportunity to learn and apply nursing skills relevant to the care of newborns through adolescence and of pregnant women. Clinical practice is provided in maternity and pediatric settings commensurate with the course content.

Prerequisite: Must meet all nursing progression requirements

**NURS 430 - Perspectives in Global Health and Nursing****Credit Hours: 3**

This course provides an overview of major health problems from a global perspective. It identifies health priorities of the 21st Century, with an emphasis on improved health for all. The course discusses how healthcare systems operate in different countries and provides examples of organizations that address global health issues. This is a theory only course.

Prerequisite: Must meet all nursing progression requirements and have upper division status in nursing.

**NURS 451 - Nursing Care of Adults with Complex Health Problems****Credit Hours: 7**

Students analyze and apply the concepts of physiological adaptation, psychosocial integrity, pharmacological therapy, cultural competence, ethical practice and leadership in the management of care for adults with complex multi-system health alterations. A combination of classroom laboratory and clinical teaching strategies are used to plan and implement evidence-based nursing care for the complex patient and their family. Professional communication using oral, written and information technology is expected.

Prerequisite: Must meet all nursing progression requirements

**NURS 460 - Community Health Nursing****Credit Hours: 4**

This course focuses on the concepts of public health, epidemiology and community health nursing with emphasis on

health promotion and disease prevention. An assessment of a rural community is completed. Cultural influences, chronic health problems, communicable diseases, disaster preparedness, health financing and environmental issues are examined in relation to community and family health practices. Health risks of individuals and families in the community are explored in terms of teaching/learning activities, caring ethics, nursing process and research through evidence-based practice. This course includes theory and clinical practice.

Prerequisite: Must meet all nursing progression requirements

## **NURS 470 - Contemporary Issues in Nursing and Health (RN-BSN)**

### **Credit Hours: 3**

This course examines the history and contemporary status of the American healthcare system as it relates to social, economic, cultural, political, and educational forces affecting nursing and health care. The role of the nurse is explored related to professional, legal, and ethical responsibilities. Nursing theorists are discussed and analyzed in terms of applicability for nursing practice. The student will also prepare for career opportunities and credentialing issues for life-long learning.

Prerequisite: Admission to the RN to BSN program track

## **NURS 480 - Nursing Leadership and Management (RN-BSN)**

### **Credit Hours: 4**

This course emphasizes development of leadership skills in nursing practice. Organizational, leadership, management and change theories are examined. Effective group leadership skills to assist in directing and/or providing safe, ethical care for groups of patients will be discussed. A significant component of the course will be the completion of an evidence based clinical project. Theory and clinical course.

Prerequisite: Successful completion of NURS 330, NURS 335, NURS 340, NURS 430, and NURS 470

## **NURS 486 - Nursing Leadership and Management**

### **Credit Hours: 3**

Development of leadership skills in nursing practice is emphasized. Organizational leadership, management and change theories are examined as they relate to the practice of nursing in dynamic and complex healthcare delivery systems. Analysis of ethical, political, legal, and social issues that influence healthcare management are explored. Students are expected to analyze practical leadership and management case scenarios and substantiate their analyses with evidence from the literature. An evidence-based project is completed that includes leadership concepts and theories covered in the course.

Prerequisite: Must meet all nursing progression requirements

## **NURS 487 - Nursing Senior Capstone: Preparation for Licensure and Practice**

### **Credit Hours: 7**

Focuses on the application of nursing content as it relates to preparation for licensure and entry into practice. Opportunities for socialization into the professional nursing role are provided. Students are expected to function with a high degree of independence, collaborate with other healthcare professionals, use effective group/leadership skills and direct and/or provide safe, ethical care for their patients. Students are required to successfully complete a clinical

experience, and apply the nursing process to patients in the healthcare setting. At the conclusion of the course students take a comprehensive predictor exam, and submit a nursing program objectives portfolio.

Prerequisite: Must meet all nursing progression requirements

## **NURS 490 - Special Topics**

**Credit Hours: 1-3**

This elective option is reserved for selected topics in Nursing. The course title, description, and syllabus are subject to approval of the instructor and the Chair of the Department.

Prerequisite: Upper division status in Nursing or permission of instructor

## **NUTR 131 - Introduction to Nutrition**

**Credit Hours: 3**

This course will provide a detailed accessible examination of human nutrition and metabolism to provide the foundation to understanding nutrition sciences and the human body.

## **NUTR 231 - Nutrition Across the Lifespan**

**Credit Hours: 3**

Presents the chemistry, digestion, absorption and metabolism of nutrients. Nutritional needs of the individual throughout the lifespan are examined. Application of nutritional needs to healthy individuals and those who have common, chronic diseases are presented.

## **NUTR 332 - Sport Nutrition and Supplementation**

**Credit Hours: 3**

Explores the science behind performance enhancement through better nutrition and dietary supplementation. New discoveries in the nutraceutical benefits of foods, vitamins, and minerals are highlighted.

Prerequisite: NUTR 131

## **PBRL 201 - Introduction to Public Relations**

**Credit Hours: 3**

Examines contemporary public relations practice, values, and principles; explores professional ethics, strategy, planning, and tactics of effective public relations practice; and surveys the goals and practices of major settings for public relations.

## **PBRL 315 - Case Studies and Campaigns**

**Credit Hours: 3**

Examines contemporary public relations case studies to test theories, illustrate challenges, and observe tactics and

strategies. Explores the creation and implementation of public relations campaigns through applied skills in research, analysis, and planning.

### **PBRL 399 - Internship**

**Credit Hours: 3**

Involves a supervised experience in the student's major. The program is closely supervised by faculty members and an on-site director.

Prerequisite: Junior standing, 2.5 GPA and instructor permission.

Cross Listed As: DMD 399, JOURN 399, MEDIA 399

Note: Credit counts as 3 of the 16 internship hours which may be applied to graduation requirements. Graded S/U.

### **PBRL 495 - Seminar**

**Credit Hours: 3**

Exposes students to an intensive study in a selected area of emphasis. The first four weeks are devoted to the development of a project prospectus. The remainder of the semester is given to independent study under the guidance of an appropriate instructor.

Prerequisite: COMM 360

### **PE 101 - Concepts of Wellness**

**Credit Hours: 1**

Develops an understanding of basic exercise physiology and physical training principles. Students learn to assess their own personal level of physical fitness and the benefits of proper physical activity. At the conclusion of the course, students are ready to continue a lifetime of healthy physical fitness activity. Appropriate for adolescent level students.

### **PE 102-140 - Physical Education Service Courses**

**Credit Hours: 1**

Enable students to fulfill individual sports, team sports, and activity interests by covering a wide variety of activities such as aerobic fitness, archery, badminton, cheerleading and dance, flag football, lifeguard training, water safety instructor, tennis, golf, racquetball, soccer, softball, and varsity athletics. A maximum of three activities may be counted toward graduation requirements. Varsity athletes may take their respective varsity sport in any year of participation.

Repeatability: No activity may be repeated for credit.

### **PE 151 - Practica**

**Credit Hours: 1**

Are taken by students interested in training or working as student assistants with various sports.

Note: A maximum of three practica may be taken for major or minor credit. Graded S/U.

## **PE 220 - Lifeguarding/Water Safety Instructor**

### **Credit Hours: 2**

Teaches the methods prescribed by the American Red Cross to save a victim of multi-age in need and ensure safety in an aquatic environment. Special attention is paid to the safety considerations and legal ramifications presented to the lifeguard.

Note: Counts as a service course.

## **PE 251 - Practica**

### **Credit Hours: 1**

Are taken by students interested in training or working as student assistants with various sports.

Note: A maximum of three practica may be taken for major or minor credit. Graded S/U.

## **PE 319 - Motor Learning and Adaptive Physical Education for Early Childhood**

### **Credit Hours: 3**

Is designed to provide the future educator with the necessary foundation of fundamental movement concepts and principles for children grades PreK to 5. Special emphasis is placed upon the use of developmentally appropriate practice to enhance the acquisition of more complex motor skills and patterns. In addition, educators are given specific strategies necessary in the educating of children who require skill adaptation and the use of prescriptive exercise and equipment. Educators attempt to establish a positive attitude and appreciation for regular health-related physical activity throughout the child's lifespan. Lastly, the educator experiences first hand the importance of movement activities and how they assist in the child's psychological, physical, intellectual, and social development.

Note: Required field experience: 15 hours.

## **PE 321 - Motor Learning and Adaptive Physical Education for Middle Childhood**

### **Credit Hours: 3**

Presents methods and materials for complete physical education instruction for children ages 9-14. Emphasis is on movement education, movement exploration, physical fitness, dancing, and specialized sports skills of basketball, football, floor hockey, soccer, softball, track and field, and volleyball. Practical teaching experience is included, and teaching units are developed.

Note: Required field experience: 15 hours.

## **PE 341 - Principles of Physical Education, Evaluation and Measurements**

### **Credit Hours: 3**

Deals with basic concepts, philosophical foundation, and subsequent applications in physical education for multi-age students. Included are specific testing, measurement, and evaluation procedures utilized in the classroom.

## **PE 351 - Practica**

**Credit Hours: 1**

Are taken by students interested in training or working as student assistants with various sports.

Note: A maximum of three practica may be taken for major or minor credit. Graded S/U.

**PE 416 - Teaching Physical Education Activities**

**Credit Hours: 4**

Is concerned with the methods and materials for teaching archery, badminton, bowling, racquetball, golf, dance, swimming, and tennis. Included is practice in teaching and conducting class activities for both middle and adolescent level students.

Note: Required field experience: 20 hours.

**PE 450 - Independent Elective**

**Credit Hours: 1-3**

Enables a student to work cooperatively with a staff member in a directed study in physical education, athletics, athletic training, recreation, or other areas with the approval of the department chair and the cooperating instructor.

**PE 451 - Practica**

**Credit Hours: 1**

Are taken by students interested in training or working as student assistants with various sports.

Note: A maximum of three practica may be taken for major or minor credit. Graded S/U.

**PE 470 - Administration, Organization, and Supervision of Health, Physical Education and Sports Programs**

**Credit Hours: 3**

Is designed to deal with the various methods of implementation for programs in health, physical education, intramurals, and sports. Special emphasis is also placed upon the supervision and evaluation procedures of such programs.

**PE 490 - Student Teaching Seminar**

**Credit Hours: 1**

Is taken during the professional semester to enhance the student teaching experience for the multi-age students. Student teachers discuss specific issues and concerns they are currently experiencing in the classroom.

**PHEN 100 - Physics for Video Games**

**Credit Hours: 3**

An introduction to the laws of physics needed to produce video games with compelling realism. Topics include kinematics, Newton's laws of motion, conservation of momentum, conservation of energy, rotational dynamics, video analysis, measurement, curve fitting, graphical interpretation, programming and simulation development. No programming experience is required.

Prerequisite: High school algebra

## **PHEN 101 - Conceptual Physics**

**Credit Hours: 4**

A conceptual-based introduction to classical physics. Topics include mechanics, properties of matter, thermodynamics, waves, sound, electricity, magnetism, and optics.

Prerequisite: High school algebra

## **PHEN 110 - Introduction to Physics and Engineering**

**Credit Hours: 2**

This course includes fundamentals of engineering problem-solving including skills from mathematics, science, and computing. Introduction to technical drawings and the engineering design process through team-based activities.

## **PHEN 111 - Career Development in Physics and Engineering**

**Credit Hours: 1**

This course focuses on physics and engineering careers, and what they "do". Presents various disciplines in both fields and associated occupations through class discussions, presentations by guest speakers, and other activities. Basics of ethics, globalization, leadership, graduate study, entrepreneurship, and presentation and communication skills are studied. Job search tools, such as resumes, interviews and networking will also be covered. A professional e-portfolio will be introduced.

## **PHEN 115 - Introductory Physics I**

**Credit Hours: 4**

This is an algebra-based presentation of mechanics, thermodynamics, and fluid mechanics.

Prerequisite: MATH 170 or higher

## **PHEN 116 - Introductory Physics II**

**Credit Hours: 4**

This course is an algebra-based presentation of oscillations, waves, electricity and magnetism and optics.

Prerequisite: PHEN 115

## **PHEN 121 - Classical Physics I**



**Credit Hours: 4**

This course is for science and engineering majors: a calculus-based presentation of kinematics, mechanics, and thermodynamics.

Prerequisite or Corequisite: MATH 190

**PHEN 122 - Classical Physics II**

**Credit Hours: 4**

This course is for science and engineering majors: a calculus-based presentation of sound, light, electricity, and magnetism.

Prerequisite: MATH 190 and PHEN 121

Prerequisite or Corequisite: MATH 200

**PHEN 150 - Introduction to Astronomy**

**Credit Hours: 4**

An introduction to the science of astronomy and the scientific method. Topics include the history of astronomy, light and matter, astronomical instruments, the solar system, stellar characterization, stellar evolution, and the interstellar medium. The course concludes with a brief survey of galaxies and cosmology. A weekly laboratory may be complemented by outdoor observing.

**PHEN 203 - Modern Physics**

**Credit Hours: 4**

A survey of 20th century physics: quantum mechanics with applications to nuclear, atomic, molecular, and solid state physics.

Prerequisite: PHEN 122 and MATH 200

**PHEN 210 - Statics**

**Credit Hours: 4**

This course studies the analysis of forces acting on particles, rigid bodies, trusses, frames, and machines in static equilibrium with applied forces and couples. Topics covered includes force vectors, equilibrium of a particle, equivalent systems of forces, equilibrium of a rigid body, structural analysis, internal forces, friction, analysis of the equilibrium of rigid bodies subjected to fictional force, centroids and moments of inertia.

Prerequisite: PHEN 121

Co-requisite: MATH 200

**PHEN 211 - Dynamics**

**Credit Hours: 3**

This course studies the kinematics and kinetics of a particle for rectilinear and curvilinear motion. Planar kinematics and planar kinetics of rigid bodies, including equations of motion and principles of energy and momentum. Topics covered includes velocity, acceleration, relative motion, work, energy, impulse, and momentum.

Prerequisite: PHEN 210, MATH 200

## **PHEN 235 - Electrical Circuit Analysis and Design**

**Credit Hours: 4**

Introduction to electrical circuit analysis and design of passive and active circuits under Direct Current (DC) and Alternating Current (AC). Linear circuit analysis techniques for various circuit topologies, including three-phase circuits, are introduced. Specific topics include the concepts of current, voltage, resistance, capacitance, inductance, power, energy, transient response of first- and second-order circuits using time-domain methods, and calculation of AC steady-state response using phasors and immittances. Laboratory work and computer-aided analysis techniques are designed to correlate with circuit analysis theory and design.

Prerequisite: PHEN 122, MATH 200

## **PHEN 300 - Material Science**

**Credit Hours: 4**

Examines the relationship between atomic structure, crystal structure, and microstructure of solids with their physical properties (mechanical, thermal, optical, electrical, and magnetic).

Prerequisite: PHEN 203

## **PHEN 310 - Optics**

**Credit Hours: 4**

Studies the ray, wave, and photon nature of light and selected optical instruments.

Prerequisite: PHEN 203

## **PHEN 320 - Thermodynamics**

**Credit Hours: 4**

Examines the properties of a pure substance, work and heat, the first law of thermodynamics, control volume analysis, entropy, the second law of thermodynamics, power and refrigeration systems and heat transfer.

Prerequisite: PHEN 121, MATH 200

## **PHEN 330 - Principles of Design**

**Credit Hours: 3**

Introduces General Engineering students to the design process: formulation of a problem, creative approaches to solving the problem, analysis, materials selection, and economics.

Prerequisite: Declared major or minor in Engineering Science or instructor permission

## **PHEN 340 - Theoretical Physics I**

**Credit Hours: 3**

Introduces the Lagrangian and Hamiltonian formulations of mechanics and the formalism of quantum mechanics.

Prerequisite: PHEN 203, PHEN 211, MATH 230

## **PHEN 350 - Special Topics in Physics and Engineering**

**Credit Hours: 1-3**

Prerequisite: Declared major or minor in Engineering Science or Physics or instructor permission

## **PHEN 360 - Strength of Materials**

**Credit Hours: 3**

An introduction to the fundamental concepts and mechanics of deformable solids. Topics include stresses and strains in solids, material behavior, shear forces and bending moments, deflection of beams, torsion of circular shafts, Mohr's circle for plane stress, pressure vessels, column buckling, statically indeterminate structures, centroids and moments of inertia.

Prerequisite: PHEN 210

## **PHEN 370 - Electromagnetics**

**Credit Hours: 3**

Studies electricity, magnetism, and their interrelationships. Applications to the design and operation of electromagnetic components and systems are emphasized.

Prerequisite: PHEN 122, MATH 310

## **PHEN 405 - Signals and Systems**

**Credit Hours: 3**

An introduction to basic concepts of signals, system modeling, and system classification. Convolution, response of linear time-invariant (LTI) systems, impulse response are presented. Emphasis is given to frequency-domain analysis of continuous-time and discrete-time signals and systems: Fourier series, Fourier, Laplace and z-transforms.

Prerequisite: PHEN 235, MATH 320

## **PHEN 410 - Measurements**

**Credit Hours: 3**

An introduction to sensors, interface electronics, data acquisition, calibration and response, probability, statistics, uncertainty analysis and regression.

Prerequisite: PHEN 235

## **PHEN 415 - Control Systems**

**Credit Hours: 3**

Introduces the analysis and design of control systems. Characteristics, performance, and stability of feedback control systems are studied. Mathematical and state-variable modeling and the root locus and frequency response methods are emphasized.

Prerequisite: PHEN 405

## **PHEN 420 - Fluid Mechanics**

**Credit Hours: 4**

An introduction to the fundamental principles and applications of hydrostatics and fluid flow.

Prerequisite: PHEN 210, MATH 320

## **PHEN 425 - Introduction to Electrical Power Systems**

**Credit Hours: 3**

An introduction to the analysis of magnetic circuits and polyphase balanced power systems. Topics include transformers and power transmission lines.

Prerequisite: PHEN 370

## **PHEN 430 - Theoretical Physics II**

**Credit Hours: 3**

Introduces statistical thermodynamics and elaborates on the formalism of electromagnetism.

Prerequisite: PHEN 320, PHEN 370

## **PHEN 435 - Engineering Economics, Ethics, and Society**

**Credit Hours: 3**

This course presents the broad knowledge for engineers about the topics of economics, ethics, and their effect on society. Topics include application of economic analysis and decision theory to evaluate alternatives of planning, development, construction, management of engineering projects, and discussion of ethical issues in the engineering practice.

Prerequisite: PHEN 330 or instructor permission

## **PHEN 490 - Introduction to General Engineering Senior Project**

### **Credit Hours: 1**

This course prepares General Engineering students for their senior project by stepping them through the process of writing and presenting a proposal for a design project. Students are required to (1) periodically present their progress on preparing their proposal, (2) submit their finished proposal, and (3) present it to students in the Introduction to Physics and Engineering course.

Prerequisite: PHEN 330 or instructor permission

## **PHEN 491 - Introduction to Physics Senior Project**

### **Credit Hours: 1**

This course prepares Physics students for their senior project by stepping them through the process of writing and presenting a proposal for a research project. Students are required to (1) periodically present their progress of preparing their proposal, (2) submit their finished proposal, (3) present it to students in the Introduction to Physics and Engineering course.

Prerequisite: PHEN 340

## **PHEN 492 - Introduction to Physics Education Senior Project**

### **Credit Hours: 1**

This course is an introduction to Physics Education Senior Project and prepares Physics Education students for their senior project by stepping them through the process of writing and presenting a proposal for a research project. Students are required to (1) periodically present their progress on preparing their proposal, (2) submit their finished proposal, and (3) present it to students in the Introduction to Physics and Engineering course.

Prerequisite: EDUC 394

## **PHEN 495 - General Engineering Senior Project**

### **Credit Hours: 3**

The capstone course for the General Engineering program. Working as individuals or in teams in consultation with departmental faculty, students execute the design they proposed in the Introduction to General Engineering Senior Project course. Students are required to (1) periodically present their progress on implementing their proposal, (2) present a poster that describes their design project for the Homer A. Anderson Family Science Colloquium series, and (3) submit a prototype and a final report for their design.

Prerequisite: PHEN 490

## **PHEN 496 - Physics Senior Project**

### **Credit Hours: 3**

The capstone course for the Physics program. Working as individuals or in teams in consultation with departmental faculty, students execute the research project they proposed in the Introduction to Physics Senior Project proposal.

Students are required to (1) periodically present their progress on implementing their proposal, (2) present a poster that describes their research project for the Homer A. Anderson Family Science Colloquium series, and (3) submit a final report for their research project.

Prerequisite: PHEN 491

## **PHEN 497 - Physics Education Senior Project**

**Credit Hours: 3**

The capstone course for the Physics Education program. Working as individuals or in teams in consultation with departmental faculty, students execute the research project they proposed in the Introduction to Physics Education Senior Project proposal. Students are required to (1) periodically present their progress on implementing their proposal, (2) present a poster that describes their research project for the Homer A. Anderson Family Science Colloquium series, and (3) submit a final report for their research project.

Prerequisite: PHEN 492

## **PHIL 101 - Introduction to Western Philosophy**

**Credit Hours: 3**

Introduces students to some of the key writers and concepts in philosophy, with a special emphasis on Western Philosophy (i.e. European and American). Topics could include human freedom, personal identity, the nature and existence of God, the problem of evil, the nature of knowledge, theories of truth, and approaches to values.

## **PHIL 202 - Logic and Critical Thinking**

**Credit Hours: 3**

Examines formal and informal techniques for evaluating arguments in order to improve critical thinking skills. Topics include informal fallacies of reasoning, uses and abuses of language, arguments in context, symbolic logic, and validity.

## **PHIL 203 - Introduction to Ethics**

**Credit Hours: 3**

Critically examines ethical theories of the criteria used to make justified and responsible ethical decisions. Considers difficult moral problems connected to topics such as killing, lying, fairness, sexual morality, environmental concerns, and professional ethics.

## **PHIL 305 - Biomedical Ethics**

**Credit Hours: 3**

Explores moral issues relating to medicine and biology. Examples of issues considered include euthanasia, genetic engineering, disabilities, and allocation of healthcare resources. Students explore arguments about these issues using the concepts and principles of ethical theory.

## **PHIL 325 - Western Philosophy: The Ancients**

**Credit Hours: 3**

Investigates Greek and Roman philosophy, with the possibility of including early Christian philosophy, in order to help students understand the origins of Western Philosophy. Includes figures such as Plato, Aristotle, Augustine, and Aquinas, as well as movements such as Stoicism and Epicureanism, with a focus on the role of rational inquiry in the quest for human flourishing.

**PHIL 327 - Western Philosophy: The Early Moderns**

**Credit Hours: 3**

Examines philosophies from 1600-1800 such as rationalism (Descartes, Spinoza), empiricism (Locke, Hume, Berkeley) and Kant's critical philosophy. Focuses on this period's response to scientific and political revolutions.

**PHIL 331 - Environmental Ethics**

**Credit Hours: 3**

Explores the nature and basis of our ethical obligations regarding the natural environment. Considers views of these obligations ranging from the human-centered (anthropocentrism), to the moral considerability of animals (animal liberation), to the notion that we have direct obligations to all living things or whole ecosystems (ecocentrism). Provides the opportunity to use these ethical perspectives to evaluate environmental policies, laws, or agendas.

**PHIL 342 - Religions and Philosophies of Asia**

**Credit Hours: 3**

Deals with the different forms of religious belief around the world-especially Hinduism, Buddhism, Confucianism, Taoism, Shintoism, and Islam.

Cross Listed As: RELG 342

**PHIL 343 - Social and Political Philosophy**

**Credit Hours: 3**

Considers theories of the nature and legitimacy of the state and its laws. Also deals with topics such as the rights and responsibilities of citizens, ethics in political decision-making, economic justice, punishment, race and gender oppression, political and cultural identity, and the value and meaning of democracy.

Cross Listed As: POLS 343, SOCI 335

**PHIL 350 - Later Modern Philosophy**

**Credit Hours: 3**

Examines topics about the nature of knowledge and reality from the period of the Nineteenth century through the early Twentieth century. Examples of topics include the nature and existence of God, the nature of mind, and the courses of knowledge.

**PHIL 355 - Comparative Philosophy**

**Credit Hours: 3**

This course examines two or more philosophical traditions in a comparative context. Fosters deeper understanding of philosophical traditions by articulating their assumptions from the perspectives of others. Examines themes such as the cultural conditions of knowledge and values, ethnocentrism, and marginalization.

**PHIL 360 - Topics in Metaphysics or Epistemology****Credit Hours: 3**

Explores a historically recent (i.e. 20th/21st century) topic in either Metaphysics or Epistemology. Possible Metaphysics topics include (but are not limited to) recent conceptions of a Higher Power, the Nature of Being, Social Constructivism, and the supposed Death of Metaphysics. Epistemology topics may include exploring Logical Positivism, Philosophy of Mind, the possibility of Artificial Intelligence, and Philosophy of Language.

**PHIL 361 - Topics in Moral Philosophy****Credit Hours: 3**

Provides students the opportunity for advanced study of moral philosophy. Topics range from theoretical questions about the status of morality to practical questions about specific moral problems. Descriptions of the course topic for a given semester are available in the course schedule bulletin and on the Religion and Philosophy Department website.

**PHIL 362 - Ethics and Technology Issues****Credit Hours: 3**

This course examines the way in which rapid advances in technology have changed our ethical relationship with each other. Beginning with an overview of the central questions and theories of morality, this course challenges students to explore how these theories might be applied to social media, rapid communication, and advances in automation. Topics include: social media influencers as role models; online harassment and bullying; determining real from fake information; and the responsibilities companies have to protect the community as they develop new technologies.

**PHIL 403 - Directed Readings in Philosophy****Credit Hours: 1-3**

This course gives the student an opportunity to do intensive readings in areas of philosophy selected in consultation with the department.

**PHIL 495 - Senior Seminar Research in Philosophy****Credit Hours: 1**

Involves research necessary for the completion of the senior seminar. Such preliminary research includes extensive reading, compilation of a bibliography, composition of a thesis statement, and the creation of an initial outline. Students are asked to demonstrate their progress in regular meetings with the instructor and/or department

**PHIL 496 - Senior Seminar**



**Credit Hours: 3**

Involves research necessary for the completion of the senior seminar. Such preliminary research includes extensive reading, compilation of a bibliography, composition of a thesis statement, and the creation of an initial outline. Students are asked to demonstrate their progress in regular meetings with the instructor and/or department

Prerequisite: PHIL 495

**POLS 111 - American Political Systems****Credit Hours: 3**

Introduces students to the institutions, processes, and values that constitute the American political system. In dealing with such topics as First Amendment rights, Congress, the Presidency, parties and interest groups, bureaucracy, and public policy, some time is spent in examining select aspects of the social and political background to American politics.

**POLS 121 - Introduction to Public Administration and Policy****Credit Hours: 3**

Introduces students to the broad environment in which public policies are made in Europe and the United States. The relationship between the social ends desired and the administration employed and the difficulties of transferring the Western model of administration to other cultures are developed as themes. The intimate link between government administration and civilization is explored, and students are exposed to major elements of public administration, including administrative processes, organizational theory, human relations, and implementation.

**POLS 131 - Introduction to Comparative Politics****Credit Hours: 3**

Introduces students to foundational concepts and dynamics in the field of comparative politics. The course discusses patterns of political behavior, the essential elements of a political system, the institutions of different regimes, and the various ways in which states reconcile freedom, order, and equality. Numerous political systems are studied in comparative context. Both democracies and non-democracies are examined, with attention to the process of democratization in different systems.

**POLS 151 - Introduction to International Relations****Credit Hours: 3**

Introduces students to foundational concepts and dynamics in the field of international relations. Topics focus on the nature of interaction between political entities on the world stage, including states, IGOs, NGOs, and other entities. Topics covered include globalization and its consequences, the nature of East-West and North-South relations, the international economic system, the causes and consequences of war, and the international paths to peace.

**POLS 240 - Introduction to Research Methods****Credit Hours: 3**

This course covers the basics of a cross-section of research methods used in Criminal Justice, Political Science, and

other social sciences. The research methods covered include a basic quantitative method, a qualitative method, a field research method, and components of conducting a literature review. Students will learn problem formulation, hypothesis construction, and hypothesis testing. The course emphasizes the consumption of social science research and research methods skill development to be used in upper level Criminal Justice and Political Science courses.

Cross Listed As: CRMJ 240

## **POLS 310 - US National Security**

### **Credit Hours: 3**

Examines the nature of national and homeland security in the United States, including actors, institutions, and the impact of national security structures and behavior on the US and the world. Areas of concentration include the history of national security issues and concerns, changes in the post-9/11 world, homeland security issues, intergovernmental coordination and conflict, domestic and global implications of US policy, and both current and future challenges to US national security.

## **POLS 311 - Congress and the Presidency**

### **Credit Hours: 3**

Provides an understanding of the central policy-making institutions of the federal government: Congress and the Presidency. Attention is given to the constitutional power of Congress and the Presidency; the separation and delegation of powers; the evolution of powers and the inter-institutional power relationship; the policy making process; and historical and contemporary political polarization.

## **POLS 312 - Constitutional Law Governmental Powers**

### **Credit Hours: 3**

Focuses on the activity of the Supreme Court in interpreting the meaning of the Constitution through case law specific to the areas of governmental powers. After examining the powers and activities of the Court, specific areas of law are examined. These include powers and limitations of each branch, separation of powers, checks and balances, issues of federalism, taxing and spending powers, and economic powers.

## **POLS 313 - Criminal Procedure and Law**

### **Credit Hours: 3**

This course involves the convergence of law enforcement, courts, legislation, and the Constitution. Students study constitutional rights of individuals and limitations on police authority as interpreted by the courts. Additionally, students study crime definitions and elements of crime as written by legislatures and interpreted by courts. Substantive law of Ohio is emphasized.

Cross Listed As: CRMJ 344

## **POLS 314 - Political Communication**

### **Credit Hours: 3**

Focuses on how communication manifests itself through politics. Attention is given to the nature and impact of mass

media, which informs, shapes, and legitimizes political attitudes. Emphasis is given to theories of attitude formation and change, mass media as instruments of political communication and opinion leadership, how the media shapes public perceptions, the influence of political communication on public policy, and the media as a tool of political influence and control.

## **POLS 317 - Constitutional Law II: Civil Rights and Liberties**

### **Credit Hours: 3**

Focuses on the activity of the Supreme Court in interpreting the meaning of the Constitution through case law specific to the areas of civil rights and civil liberties. After examining the powers and activities of the Court, specific areas of law are examined. These include civil liberties (religion, speech, privacy, etc.), rights of the accused (search and seizure, due process, fair trial, etc.), and civil rights (equal protection, discrimination, etc.).

## **POLS 319 - Political Parties and Elections**

### **Credit Hours: 3**

Examines political parties found in democratic nations including multi-party systems with an emphasis on the case in the United States, and the meaning of parties for governing, political participation, and citizenship. Different election processes, election law, political finance, and the effects on outcomes are also studied.

## **POLS 321 - Public Administration**

### **Credit Hours: 3**

Studies the structures and processes for formulating and implementing public policies. Emphasis is given to the role of the national-level bureaucracy. State and local managerial and administrative concerns are addressed broadly and through specific illustrative examples.

## **POLS 322 - Public Policy**

### **Credit Hours: 3**

Establishes a framework for the policy cycle and applies it to selected policy concerns. The nature of public policy, making public policy, substantive policy issues, and policy analysis are explored.

## **POLS 323 - Administrative Law**

### **Credit Hours: 3**

Provides an understanding of the legal concepts that define what has been called "the bureaucratic state." Students examine the law governing the creation of, powers of, and limitations upon administrative agencies of all sorts.

## **POLS 324 - Urban Politics**

### **Credit Hours: 3**

Focuses on the political and policy choices and the constraints cities face. Students are provided a theoretical base to analyze cities in terms of the issues they face, the factors that affect them, and the structure that they operate in.

Important policy issues such as smart-growth strategies, economic development, and downtown revitalization are stressed.

### **POLS 325 - Public Sector Human Resource Management**

**Credit Hours: 3**

Examines the environment of public employment. Differences between the public and private sector, the historical growth of the personnel system in the public sector, and topics in administration, staffing, and productivity are explored. Public sector processes for recruitment, selection, development, motivation, evaluation, compensation, and discipline are given particular attention.

### **POLS 326 - Regional Planning**

**Credit Hours: 3**

Introduces students to planning at the city level and offers a unique opportunity to apply directly what has been learned in the classroom. Students are exposed to the major ideas behind regional planning, including land use planning, MPDUs and regional coalitions.

### **POLS 328 - Applied Policy: Occupational Safety and Health**

**Credit Hours: 3**

Provides students with the tools necessary to develop and design an effective occupational and safety health program in a wide variety of industries to mitigate risk and protect workers. The course is designed to give students training in policy development and program implementation which can both be used in a multitude of settings and serve as a transferable skill.

### **POLS 331 - Politics of Western Europe**

**Credit Hours: 3**

Studies such states as the United Kingdom, France, Germany, and others in depth, with comparisons being drawn among them. The emphasis is on the distribution of power and the organization for governing in parliamentary, presidential, and related democracies.

### **POLS 334 - Ethnic Conflict and Nationalism**

**Credit Hours: 3**

Examines the roles of ethnicity and national identity in constructing the modern world, ethnic conflicts, racism, and separatism through discussion of theoretical articles and real-world cases. The course includes the study of waves of national and current ethnic conflicts.

### **POLS 336 - Russian Politics and Society**

**Credit Hours: 3**

This course introduces students to political and social issues in the Russian Federation of democratization, nation-building, and building capitalism from the ground up. The course recaps Russian and Soviet history before discussing

some of the issues the country faces. These issues include territorial disintegrated, ethnic conflict, demographic change, gender roles, corruption, and other issues of contemporary significance.

Cross Listed As: SOCI 336

## **POLS 342 - Ethical Issues in Politics**

### **Credit Hours: 3**

Examines the ethical aspects of some of the difficult political issues facing the United States and the world community, including such topics as the influence of money on political systems, the role of ethics in addressing domestic social welfare issues, the moral aspects of humanitarian and economic development issues, and ethical concerns relating to issues of war and peace.

## **POLS 343 - Social and Political Philosophy**

### **Credit Hours: 3**

Considers theories of the nature and legitimacy of the state and its laws. It also deals with topics, such as the rights and responsibilities of citizens, ethics in political decision-making, economic justice, punishment, race and gender oppression, political and cultural identity, and the value and meaning of democracy.

Cross Listed As: PHIL 343, SOCI 335

## **POLS 352 - American Foreign Policy**

### **Credit Hours: 3**

Examines the actors, institutions, and the impact of foreign policy structures and behavior on the US and the world. Issue areas given significant attention include the history of AFP, issues of consensus and conflict, pre- and post-9/11 dynamics, inside and outside actors/influences, the impact of politics on policy, national and homeland security issues relating to foreign relations, and both current and future challenges of American foreign policy.

## **POLS 354 - Model United Nations**

### **Credit Hours: 3**

Introduces students to the United Nations as an institution, as well as to many of the problems and challenges faced by the international community that the UN addresses. As part of the course, students attend an off-campus Model United Nations simulation, where they take on the role of a particular country and interact with students from other universities representing different countries. A significant portion of the course content is specific to preparation for this off-campus Model UN simulation.

Note: Due to this additional practicum experience, there are additional costs associated with this course.

## **POLS 355 - Model United Nations Practicum**

### **Credit Hours: 1**

Allows students to gain college credit for attending the Model United Nations conference. Students must educate themselves about the country they are representing and prepare independently to attend the conference. Students in the

Model UN Practicum must periodically liaise with their peers taking the course for the first time, on a to-be-announced schedule.

Prerequisite: POLS 354

Note: Due to the nature of this experience, there are additional costs associated with this course.

## **POLS 356 - War, Peace, and Security**

**Credit Hours: 3**

Examines the nature of international security, including issues related to war and other forms of military and political conflict. Relevant institutions and actors are discussed, as are prominent challenges to peace and security in the international environment. The ethical implications of these challenges are examined, as are the prospects and possibilities for peace and security on the global stage.

## **POLS 358 - Russian Foreign Policy**

**Credit Hours: 3**

Exposes students to the intricacies of formulating, constructing, and executing Russian Foreign Policy, as well as a consideration of the means by which Moscow seeks to achieve its goals on the international stage. Students consider the different sources and challenges of Russian Foreign Policy coming from Russia's unique geographical, historical, and ideational position.

## **POLS 362 - Race, Crime, and Justice**

**Credit Hours: 3**

Explores the connection between the American criminal justice system and race. Attention is given to the nature and impact of the historical and contemporary criminal justice system, public policy, and public opinion. The course focuses on the use of data, theory, and research to understand individual behavior and American institutions.

## **POLS 365 - International Sport and Politics**

**Credit Hours: 3**

Introduces students to connections and influences between politics and international sport (sporting mega events), including state motives and aims in hosting such mega events. The course begins by considering sports in general before looking at international sport, such as the Olympics and the World Cup.

## **POLS 370 - Topics in Political Science**

**Credit Hours: 3**

Provides students with a semester-long study of a topic of interest under the direction of a departmental faculty member. Topical offerings provide an opportunity for intensive study in a field of interest to the student.

## **POLS 372 - Politics in Film**

**Credit Hours: 3**

Uses popular films to introduce important political issues and processes to a broad set of students. Movies are complemented with readings that center discussion on the political issues that emerge from the films.

### **POLS 377 - Hate Crimes**

**Credit Hours: 3**

This course introduces students to issues and facts regarding hate crimes in the United States and around the world, including reporting, policing, victims, laws, and socio-political causes of hate crime. The course also involves some consideration of international connections between hate groups and the role the internet plays in facilitating hate domestically and internationally.

### **POLS 380 - Topics: Off-Campus Study**

**Credit Hours: 3**

Provides students with an off-campus structured, faculty-led learning experience in the U.S. or abroad.

Prerequisite: Instructor permission required

### **POLS 387 - Internship in Political Science**

**Credit Hours: 1-3**

Involves a supervised work-study experience in a political structure or environment outside the University. Supervised jointly from within the respective political entity and the Political Science Department, the internship may take place in a private organization or business if it deals directly with the organization's involvement with political or governmental affairs.

### **POLS 481 - Student/Faculty Collaborative Research in Political Science**

**Credit Hours: 3**

Students work one-to-one with a faculty member on a professional project. The final project/paper will list both the faculty member and the student as co-authors. Students are expected to present their findings with the faculty member at a professional conference.

Prerequisite: Instructor permission required

### **POLS 490 - Senior Seminar**

**Credit Hours: 3**

Students in this team-taught course complete a mini-research project (individual or team-based depending on the type of research being conducted) for each of the four interrelated topics, and practice multiple ways of conducting research and answering questions. The unifying theme is the integration of knowledge. Students approach problems from different disciplinary perspectives, solve them in differentiated ways, and demonstrate how the knowledge they have gained in their major courses can be applied in multiple and diverse settings.

Prerequisite: CRMJ 240 or POLS 240

## **PSYC 101 - Introduction to Psychology**

**Credit Hours: 3**

Presents basic concepts in the scientific study of behavior including motivation, sensation and perception, learning, cognition, development, social, and personality.

## **PSYC 110 - Exploring Psychological Science**

**Credit Hours: 1**

Deals with selected topics offered in a seminar format.

Prerequisite or Corequisite: PSYC 101, freshman or sophomore standing, and permission of instructor

## **PSYC 151 - General Experimental Psychology**

**Credit Hours: 4**

Emphasizes fundamental concepts of research. Students conduct classic psychological experiments in perception, cognition, physiological, learning, and social psychology and write lab reports in APA (American Psychological Association) style.

Prerequisite: PSYC 101

Note: Includes a lab.

## **PSYC 205 - Child Development**

**Credit Hours: 3**

Presents a systematic study of physical, social, cognitive, and personality development from conception through the elementary school years. Emphasis is on learning different theoretical perspectives.

Prerequisite: PSYC 101

Note: Students are encouraged to complete the one credit course, PSYC 220 simultaneously.

## **PSYC 208 - Lifespan Development**

**Credit Hours: 3**

Is an overview of psychological theories and empirical research used in the study of human development to describe, understand, and explain development from conception to death. Emphasis is placed upon normal growth and milestones achieved in the physical, cognitive, social and emotional systems.

## **PSYC 220 - Preschool Practicum**

**Credit Hours: 1**

Provides supervised experience in the application of psychological principles. Students work in the department's Center for Child Development four hours per week and participate in a variety of in-service training programs.



Note: Graded S/U.

## **PSYC 222 - General Practicum**

**Credit Hours: 1**

Provides supervised experience in the application of psychological principles. Students work in one of the department laboratories, an outside laboratory, a counseling center, a mental health clinic, or other human service agency.

Prerequisite: Permission of instructor

Note: The course requires four hours of practical experience per week (or 40 clock hours, depending on the placement) and participation in a variety of in-service training programs. Graded S/U.

## **PSYC 231 - Applied Statistics**

**Credit Hours: 3**

Designed for the practical application of descriptive (measures of central tendency and variance) and inferential statistics (t-tests, ANOVAs, correlations, and regressions). The emphasis of the class is on the abilities to use statistical software (Excel) to organize data, conduct basic statistical analysis, interpret statistical findings and present statistical results.

## **PSYC 232 - Behavioral Statistics**

**Credit Hours: 3**

Deals with experimental design, statistical analysis, and the mathematics of probability as they are related to the scientific analysis of behavior.

## **PSYC 281 - Physiological Psychology**

**Credit Hours: 3**

Studies the basic principles of brain organization and function. Emphasis is placed on understanding the relationships between brain activity and behavior.

Prerequisite: PSYC 101

## **PSYC 290 - Theories of Personality**

**Credit Hours: 3**

Examines contemporary models used to describe, explain and predict people's behavior, thoughts, and emotions.

Prerequisite: PSYC 101

## **PSYC 304 - Learning and Memory**

**Credit Hours: 3**

Introduces the student to classical and modern concepts of learning and memory across all levels at which learning and memory is studied, in both animals and humans. Topics include the role of the nervous system, behavioral tests of learning and memory, and clinical disorders that affect learning and memory.

Prerequisite: PSYC 101

## **PSYC 305 - Cognitive Psychology**

**Credit Hours: 4**

Investigates mental processes related to the areas of perception, organization, retention, and subsequent use of stimulus information. Specifically, readings address the issues of perception, memory, attention, imagery, thinking, and problem solving.

Prerequisite: PSYC 101, PSYC 151, PSYC 232

Note: Includes a lab with experiments on computers.

## **PSYC 308 - Adolescence and Youth**

**Credit Hours: 3**

Examines the biological, social, personality, and cognitive changes that occur during adolescence and young adulthood. Emphasis is placed on research that is concerned with current challenges adolescents and young adults face.

Prerequisite: PSYC 101

## **PSYC 309 - Adulthood and Aging**

**Credit Hours: 3**

Examines the biological, social, personality, and cognitive changes that occur during adulthood and later years of the human life span. The continuation of development throughout the life span from middle adulthood until death is emphasized. The impact of earlier stages and choices in the life span are discussed as well.

Prerequisite: PSYC 101

## **PSYC 321 - Social Psychology**

**Credit Hours: 3**

Examines psychological principles and concepts involved in causal attribution, social cognition, attitude formation and change, social influence, and interpersonal relationships.

Prerequisite: PSYC 101 and one additional psychology course

Cross Listed As: SOCI 321

## **PSYC 351 - Advanced Experimental Psychology**

**Credit Hours: 4**

Gives the student experience in applying the scientific method to design and methodological issues in psychology.

Emphasis is placed on reading and critiquing research articles and conducting an independent research project.

Prerequisite: PSYC 151, PSYC 232, junior standing

Note: Includes a lab

## **PSYC 359 - Psychological Testing**

**Credit Hours: 4**

Provides the knowledge and skills necessary to create a psychological test and evaluate its effectiveness. Test construction, reliability, and validity are explored. Popular measures of personality, intelligence, and attitudes are demonstrated and examined.

Prerequisite: PSYC 101, PSYC 232

Note: Includes a lab.

## **PSYC 361 - Sensation and Perception**

**Credit Hours: 4**

Surveys the relationship between the various sensory modalities and behavior. The emphasis is on the interaction between such variables as basic sensory neurophysiology, environmental factors, personal experiences, and the ultimate process of perception.

Prerequisite: PSYC 101, PSYC 151

Note: Includes a lab.

## **PSYC 363 - Abnormal Psychology**

**Credit Hours: 3**

Presents the behavioral, cognitive, and emotional disorders confronted by mental health professionals. Students learn to apply current methods of assessing maladaptive behavior and to use psychological theories to explain psychological problems.

Prerequisite: PSYC 101

## **PSYC 371 - Psychopharmacology**

**Credit Hours: 4**

Begins with an overview of the nervous system and neurotransmitters. The course then focuses on the various classes of legal and illegal drugs by studying their effects on the nervous system and the behavior of animals and humans.

Prerequisite: PSYC 101, PSYC 151

Note: Includes a lab.

## **PSYC 390 - Counseling Theory and Process**

**Credit Hours: 3**

Is designed to broaden the student's knowledge and understanding of counseling through lectures, readings, and an experiential lab component. The student learns the basic theoretical perspectives of counseling, the fundamental process of counseling, and the relationship between theory and process. The lab component engages the student in rudimentary skill building in the area of counseling. The theories and procedures presented in the course can be adapted to and used in a wide variety of settings, including social work, education, and traditional psychological service settings.

Prerequisite: PSYC 101

## **PSYC 397 - Mental Health Internship**

### **Credit Hours: 2**

Requires 80 hours of practical experience and a written report, and is typically completed during the junior year. The internship experience is directed by a departmental advisor and an on-site supervisor with placement in a local human services agency or hospital.

Prerequisite: Permission of instructor

## **PSYC 398 - Research Internship**

### **Credit Hours: 2**

Provides opportunity to engage in independent research under the direction of a department faculty member. Students are required to make a final professional report of their findings.

Prerequisite: Permission of instructor

## **PSYC 399 - Developmental/Educational Internship**

### **Credit Hours: 2**

Requires 80 hours of practical experience and a written report, and is typically completed during the junior year. The internship experience is directed by a departmental advisor and an on-site supervisor. Placements include human services agencies and schools, or the department's Center for Child Development.

Prerequisite: Permission of instructor

## **PSYC 406 - Psychology of Law**

### **Credit Hours: 3**

Examines the relationship between the study of psychology and the legal system including the role of the psychologist as an expert witness, the psychological research on eyewitness testimony, scientific jury selection, and jury decision making.

Prerequisite: PSYC 101

## **PSYC 409 - Topics in Psychology**

**Credit Hours: 3**

Deals with selected topical courses offered in a seminar format.

**PSYC 419 - Readings in Psychology**

**Credit Hours: 1-3**

1-3 credit hours depending on the semester offering. Offers the student an opportunity to read extensively and discuss with department faculty topics not offered as part of the existing Psychology curriculum.

Prerequisite: Junior or senior standing and permission of the instructor; prerequisites may vary for different classes.

**PSYC 430 - Psychology of Injury**

**Credit Hours: 3**

Is designed to explore theories associated with the psychological ramifications, reactions, and adjustments required following a sport injury. Students will explore the various assessments and intervention opportunities available for coaches, athletic trainers, and sport psychology professionals.

Prerequisite: PSYC 101

**PSYC 493 - Comprehensive Review**

**Credit Hours: 2**

Is a weekly review of current research and student projects. Students write and present research proposals that serve as the basis for their senior studies project. Required of all senior Psychology majors, the course is completed when the student submits an acceptable literature review with a research proposal and passes a standardized, comprehensive examination in psychology.

Prerequisite: PSYC 351; senior standing in psychology

**PSYC 495 - Senior Studies**

**Credit Hours: 2**

Continues a weekly review of current research and student projects in addition to an independent study program that provides opportunities to practice inquiry and discovery while intensively researching some fundamental issue or problem in behavior. The individualized studies culminate in an empirical investigation, a written report, a poster, and an oral presentation to the department. The course is an extension of the Comprehensive Review projects which are continually presented during weekly review sessions.

Prerequisite: Senior standing in Psychology and completion of the research proposal for PSYC 493

**RELG 150 - Biblical Theology**

**Credit Hours: 3**

Surveys major biblical writings to discern the patterns they present about God, God's acts and God's purposes. Special attention is given to ways of reading the Bible that give priority to its literary and cultural contexts.

### **RELG 153 - World Religions**

**Credit Hours: 3**

Studies the principal doctrines, historical development, and contemporary practice of the major traditions.

### **RELG 251 - The World of Islam**

**Credit Hours: 3**

Studies the central doctrines, historical development, and current practice of Islam.

### **RELG 252 - The Judeo-Christian Tradition**

**Credit Hours: 3**

Surveys in historical context the western religions of Judaism and Christianity. Special attention is given to modern manifestations of these two great religious traditions.

### **RELG 253 - Ethics, Reason, and the Bible**

**Credit Hours: 3**

Explores the ethical systems found in the Bible.

### **RELG 260 - Introduction to Christian Theology**

**Credit Hours: 3**

Studies the central doctrines of Christianity as they have developed through the history of the church. Key points of discussion and major thinkers are covered, and students are led to identify and articulate their stance with regard to each doctrine. The contemporary theological scene is introduced as well.

### **RELG 261 - Women and the Bible**

**Credit Hours: 3**

Explores the often ambivalent relationship between women and the Bible. It examines what the Bible says about women, how women are portrayed in biblical texts, and how women readers have broadened our understanding of the Bible.

### **RELG 290 - Topics in Religious Understanding**

**Credit Hours: 3**

Examines a particular topic relevant to religious understanding, chosen by the instructor, that will enable students to probe the important ways in which religion impacts their lives and the lives of others.

## **RELG 301 - Old Testament Literature**

**Credit Hours: 3**

Studies the library of books bequeathed to us in words from ancient Israel. Through literary and historical criticism the message of the Law, the Prophets, and the Writings is discovered in the world of biblical literature.

## **RELG 302 - History and the Bible**

**Credit Hours: 3**

Studies the physical, cultural, and literary remains that help us understand and interpret Old and New Testament literature.

## **RELG 303 - New Testament Literature**

**Credit Hours: 3**

Studies the library of books bequeathed to us in words from the early Christian church. Through literary and historical criticism the message of the Gospels, the Acts of the Apostles, the Letters, and the Revelation is discovered in the world of biblical literature.

## **RELG 304 - Jesus in the New Testament**

**Credit Hours: 3**

Studies the person and work of Jesus as presented in the entire New Testament.

## **RELG 342 - Religions and Philosophies of Asia**

**Credit Hours: 3**

Deals with the different forms of religious belief around the world-especially Hinduism, Buddhism, Confucianism, Taoism, Shintoism, and Islam.

Cross Listed As: PHIL 342

## **RELG 352 - Religion and Film**

**Credit Hours: 3**

Examines how religious perspective influences the way film is made and understood. This course engages in the cross-cultural examination of religions and cinema.

Note: Offered in alternate years.

## **RELG 353 - Religion and Gender**

**Credit Hours: 3**

Explores cross-cultural religious communities by focusing on the interplay between religion and gender. Special consideration is given to the role of myths and symbols in determining power and gender relations.

### **RELG 356 - Death and Dying in the World Religions**

**Credit Hours: 3**

Studies the ways various religions deal with death and dying. Attention is paid to beliefs and practices of contemporary religious practitioners.

### **RELG 360 - Topics in Religion**

**Credit Hours: 1-3**

Allows students to explore special areas of religious study in more depth than regular course offerings can provide.

### **RELG 393 - Global Issues and Values**

**Credit Hours: 3**

Surveys selected natural issues (such as energy, population, and food supply), political issues (such as human rights, refugees, peace) and particular problems (such as those concerning the Palestinians, South Africa, multi-national corporations)-asking what values are operative and what values are required for responsible citizenship in the global village.

### **RELG 395 - World Mythology**

**Credit Hours: 3**

Focuses on myths and mythic categories important to religions around the world. This course is a cross-cultural examination of contemporary and classical myths from diverse cultures.

### **RELG 398 - Internship in Religion**

**Credit Hours: 1-2**

Provides a supervised experience in which a student works in a multifaith context, a religious organization or non-profit agency, or a chaplaincy context (correctional institute, military, hospital or higher education). The aim is to allow students to use religious knowledge in paid vocational contexts. The course number sequence allows for internships covering up to two semesters, consecutive or non-consecutive. Must be approved and supervised by instructor with relevant content background to the internship. Students must have taken appropriate courses relevant to the internship.

### **RELG 399 - Continuing Internship in Religion**

**Credit Hours: 1-2**

Provides a supervised experience in which a student works in a multifaith context, a religious organization or non-profit agency, or a chaplaincy context (correctional institute, military, hospital or higher education). The aim is to allow students to use religious knowledge in paid vocational contexts. The course number sequence allows for internships covering up to two semesters, consecutive or non-consecutive. Must be approved and supervised by instructor with relevant content background to the internship. Students must have taken appropriate courses relevant to the internship.



## **RELG 401 - Directed Readings in Religion**

**Credit Hours: 1-3**

Provides the opportunity for intensive reading in areas of religion selected in consultation with the department.

## **RELG 495 - Senior Seminar Research in Religion**

**Credit Hours: 1**

Involves research necessary for the completion of the senior seminar. Such preliminary research includes extensive reading, compilation of a bibliography, composition of a thesis statement, and the creation of an initial outline. Students are asked to demonstrate their progress in regular meetings with the instructor and/or department.

## **RELG 496 - Senior Seminar**

**Credit Hours: 3**

Involves writing an extensive research paper on a focused topic. Students are asked to demonstrate their progress in regular meetings with the instructor and/or department. This course culminates in an oral defense of the project.

Prerequisite: RELG 495

## **SOCI 101 - The Sociological Perspective**

**Credit Hours: 3**

Provides an introduction to the traditions, concepts, and methods of social inquiry. Students examine such topics as culture, social interaction, deviance, inequality, and social change.

## **SOCI 120 - Perspectives in Multicultural Leadership**

**Credit Hours: 1**

Provides an opportunity for students to examine leaders in the community and identify their own strengths to assist others. Through service-oriented action, students come to a greater understanding of being socially responsible in a multicultural setting.

Prerequisite: Completion of LEAP Workshop or permission of instructor

## **SOCI 216 - Social Problems in Contemporary America**

**Credit Hours: 3**

Examines the origins and consequences of some of the major social problems and dilemmas facing Americans today. Behavior related to problems such as race, class and gender, chemical dependency, sexual variation, crime, and the environmental crisis are studied from the sociological perspective.

## **SOCI 270 - American Corrections**

**Credit Hours: 3**

Uses a sociological perspective to examine the history, institutions, and practice of American corrections; specifically, issues of incarceration, probation, prisoner release, and criminal justice are covered.

Prerequisite: SOCI 101

Cross Listed As: CRMJ 270

**SOCI 301 - American Society: Class and Culture**

**Credit Hours: 3**

Surveys some of the major theories and scholarly studies on social stratification, national power structure, and corporate culture.

Prerequisite: SOCI 101 or SOCI 216

**SOCI 320 - Racial and Cultural Minorities**

**Credit Hours: 3**

Examines the way in which certain groups in society are defined as minorities and subjected to discrimination. The social-psychological, historical, cultural, and sociological sources of prejudice and discrimination are covered as well as the dynamics of change in relations between dominant and minority groups.

Prerequisite: SOCI 101

**SOCI 321 - Social Psychology**

**Credit Hours: 3**

Examines psychological principles and concepts involved in causal attribution, social cognition, attitude formation and change, social influence, and interpersonal relationships.

Prerequisite: PSYC 101 and one additional Psychology course

Cross Listed As: PSYC 321

**SOCI 330 - Human Sexuality**

**Credit Hours: 3**

Explores the social influences that impact concepts of sex, sexuality, reproduction and gender. Emphasis is placed on historical, political, global and technological issues. The course also includes fundamental instruction in reproductive anatomy and physiology.

Prerequisite: SOCI 101

**SOCI 335 - Social and Political Philosophy**

**Credit Hours: 3**

Considers theories of the nature and legitimacy of the state and its laws, the rights and responsibilities of citizens and groups, ethics in political decision-making, economic justice, punishment, race and gender oppression, the nature and value of political and cultural identity, and the value and meaning of democracy.

Cross Listed As: PHIL 343, POLS 343

### **SOCI 336 - Russian Politics and Society**

**Credit Hours: 3**

This course introduces students to political and social issues in the Russian Federation of democratization, nation-building, and building capitalism from the ground up. The course recaps Russian and Soviet history before discussing some of the issues the country faces. These issues include territorial disintegrated, ethnic conflict, demographic change, gender roles, corruption, and other issues of contemporary significance.

Cross Listed As: POLS 336

### **SOCI 342 - Gender, Film, and Society**

**Credit Hours: 3**

Applies a sociological lens to gendered aspects of film and their societal correlates.

Prerequisite: SOCI 101

### **SOCI 345 - Sociology of the Family**

**Credit Hours: 3**

Examines the various forms and functions of the family in the United States as well as other cultures. The developmental cycle of the family is followed through mate-selection, marriage, parenthood, and old age. Family change is also analyzed by covering such topics as industrialization and sex roles.

Prerequisite: SOCI 101

### **SOCI 350 - Social Change in an International Perspective**

**Credit Hours: 3**

Focuses on the international aspects of social change such as the gap between the rich and poor countries, social movements in Third World countries, and the theoretical perspectives that illuminate and explain such change. Case studies are drawn from current events.

Prerequisite: SOCI 101

### **SOCI 352 - Selected Topics in Sociology**

**Credit Hours: 3**

Presents an opportunity to read and discuss in depth topics not covered or only partially covered in regular courses.

Prerequisite: SOCI 101

### **SOCI 360 - Social Research Methods**

**Credit Hours: 3**

Introduces the student to the research process through the analysis of research designs and the various methods of collecting data and of drawing inferences from that data. Emphasis is placed on practical experience in developing research skills.

Prerequisite: SOCI 101

### **SOCI 369 - Peacemaking**

**Credit Hours: 3**

Takes a multidisciplinary approach towards peacemaking. This course moves back and forth between personal applications in one's daily life on the one hand and more academic applications of the social sciences (sociology, anthropology, history, psychology and criminal justice) and humanities on the other. Emphasis on writing and class discussion.

### **SOCI 370 - Environmental Sociology**

**Credit Hours: 3**

Constructs a framework for the study of how cultures and societies influence and in turn are shaped by the natural environment.

Prerequisite: SOCI 101

### **SOCI 422 - Sociological Theory**

**Credit Hours: 3**

Offers a descriptive and analytical survey of intellectual traditions and trends in the discipline of sociology from its origin to the present.

Prerequisite: SOCI 101

### **SOCI 490 - Round Table**

**Credit Hours: 1**

Encourages free and open conversation between students and faculty on sociological issues and applications.

Prerequisite: 15 hours in sociology/anthropology

Note: Graded S/U.

### **SOCI 495 - Senior Studies**

**Credit Hours: 2**

Provides an opportunity for the student to engage in the groundwork for guided independent study on an approved topic.

Prerequisite: SOCI 101

**SOCI 496 - Senior Studies**

**Credit Hours: 2**

Enables the student to complete a guided independent study on an approved topic.

Prerequisite: SOCI 495

**SPAN 111 - Beginning Spanish I**

**Credit Hours: 3**

Develop communicative skills while exploring the Spanish-speaking world. Students will learn how to have a basic conversational exchange, write emails in Spanish, and better understand immigrant communities in the U.S. Language instruction and cultural readings are designed to prepare students to work and communicate with people from different cultures.

Note: This course is intended for students with no prior knowledge of Spanish or those who have had two years or less of high school Spanish.

**SPAN 112 - Beginning Spanish II**

**Credit Hours: 4**

Enhance and further develop your communicative proficiency in Spanish as well as intercultural competency in the Hispanic world. In addition to the regular class meeting, students will meet once a week with a language assistant from Latin American or Spain to develop conversational skills.

Prerequisite: SPAN 111 or 2-3 years of high school Spanish

**SPAN 123 - Hispanic Literature and Film**

**Credit Hours: 3**

Prerequisite: This course, which is taught in English, will introduce students to Hispanic society through literature and film. Class discussions, readings, and film will include detective tales, humor, magical realism, social issues, and gender expression. Films in Spanish will include English subtitles. Students will have the options to complete readings in English or Spanish.

**SPAN 211 - Intermediate Spanish I**

**Credit Hours: 4**

Continues to develop your communicative proficiency in Spanish while exploring the cultural, social, and linguistic

diversity of the Hispanic world. Students explore the diversity of practices, products, and perspectives found within contemporary Spanish-speaking societies. Topics may include gender, multiculturalism, ethnicity, family, religion, literature, art, music, gastronomy, education, economics, and politics.

Prerequisite: SPAN 112 or 4 years of high school Spanish

Note: Students meet once a week with a language assistant from Latin America or Spain.

## **SPAN 212 - Intermediate Spanish II**

**Credit Hours: 4**

This course continues to develop your communicative proficiency in Spanish while exploring the cultural, social, and linguistic diversity of the Hispanic world. Students study the diversity of practices, products, perspectives found within contemporary Spanish-speaking societies. Topics may include gender multiculturalism, ethnicity, family, religion, literature, art, music, gastronomy, education, economics, and politics.

Prerequisite: SPAN 211 (or equivalent transfer credit) or a score of 4 on the AP Spanish Language and Culture exam.

Note: Students meet once a week with a language assistant from Latin American or Spain.

## **SPAN 240 - Business Spanish**

**Credit Hours: 3**

Introduces the language and culture of business in a Hispanic context. Topics include marketing, banking, accounting, trade, business communication, and the role of government.

Prerequisite: SPAN 212, its equivalent, or permission of the instructor.

## **SPAN 251 - Spanish Table**

**Credit Hours: 1**

This course is a weekly meeting designed to increase fluency and expand vocabulary through small group discussions and cultural activities (e.g. cooking a typical meal, playing a board game in Spanish, etc).

Prerequisite: SPAN 111, equivalent transfer credit or 1-3 years of high school Spanish.

Note: The course may be taken up to three times for credit but applied to the major or minor only twice.

## **SPAN 291 - Advanced Spanish Table**

**Credit Hours: 1**

A weekly discussion designed to expand vocabulary and increase the speaking proficiency of students at or above the advanced-intermediate level.

Prerequisite: SPAN 212, its equivalent or permission of instructor.

Note: The course is typically led by a Language Assistant from partner institutions in Argentina or Spain.

Repeatability: May be taken up to three times for credit but applied to the major or minor only twice (can consist of two 251s; two 291s, or one of each).

## **SPAN 301 - Advanced Spanish: Conversation and Pronunciation**

**Credit Hours: 3**

This course is designed to develop and expand communicative proficiency in Spanish with an emphasis on the variety of Spanish dialects as well as pronunciation, intonation, rhythm, and lexical usage. Students will engage in storytelling, presentations, and debates about general interest topics as well as Hispanic cultures, in order to gain the necessary vocabulary to participate in Spanish conversation at an advanced level.

Prerequisite: SPAN 212, its equivalent transfer credit, or permission of the instructor.

**SPAN 302 - Advanced Spanish: Grammar and Composition**

**Credit Hours: 3**

This course combines a writing course with a review of Spanish grammar. Students will learn to write in a variety of informal and formal contexts, preparing them for professional communication in Spanish.

Prerequisite: SPAN 212, its equivalent, or permission of instructor.

Note: Given different contracts, the course may be taken twice for credit.

**SPAN 303 - Panoramas of Hispanic Literature I**

**Credit Hours: 3**

Introduces major literary movements, principal writers, and outstanding works of Spanish peninsular literature.

Prerequisite: SPAN 302 or permission of instructor

**SPAN 304 - Panoramas of Hispanic Literature II**

**Credit Hours: 3**

Introduces the major literary movements, principal writers and outstanding works of Latin American and literatures by Hispanics in the United States.

Prerequisite: SPAN 302 or permission of instructor

**SPAN 310 - Study Abroad Seminar**

**Credit Hours: 1**

Satisfies the study abroad requirement for the major. Students attend preparatory meetings and participate in assignments designed to maximize the value of the required study abroad experience. Before departure, students engage in readings and discussions. After study abroad, students submit a reflection paper and/or assigned written work related to their formal and informal learning gained during the stay.

**SPAN 325 - Hispanic Civilization**

**Credit Hours: 3**

Explores the geographic, ethnic, and cultural diversity of the Spanish-speaking world including the Hispanic heritage of the United States.

Prerequisite: SPAN 212, its equivalent, or permission of instructor.

Repeatability: The course may be repeated for credit as the subject matter changes

## **SPAN 360 - Topics in Hispanic Language and Culture**

**Credit Hours: 1-3**

Provides an opportunity to study a linguistic, literary, or cultural topic related to the Spanish-speaking world. Courses in topical areas not offered in the regular curriculum may be offered on a rotating basis.

Prerequisite: Sophomore standing and permission of instructor

Repeatability: The course may be repeated for credit as subject matter changes.

## **SPAN 431 - Hispanic Culture Seminar**

**Credit Hours: 3**

Provides the advanced student an opportunity to study in depth an aspect of Hispanic culture, which may include: literature, art, business culture, or another approved topic. The course serves as a capstone for the Spanish major.

Prerequisite: Two Spanish courses numbered above SPAN 302 (one of which must be SPAN 303 or SPAN 304) or permission of instructor

## **SPCOM 221 - Sports Communication**

**Credit Hours: 3**

Designed to introduce the field of sports communications and the role it plays in intercollegiate and professional athletics. The course will deal with the workings and process behind executing proper techniques of sport information and media relations.

## **SPCOM 240 - Sports Media**

**Credit Hours: 3**

Exposes students to the craft of sports journalism, from print to online to social media to broadcast. Students will learn to develop sources, understand different forms of stories, how to write, report and analyze sports.

## **SPCOM 321 - Social Media and Technology in Sports**

**Credit Hours: 3**

Focuses on developing the skills needed to manage NCAA events using the latest communication innovations available for collegiate athletics.

Prerequisite: SPCOM 221

## **SPCOM 331 - The Art of Sports Broadcasting**



**Credit Hours: 3**

This course explores the processes of broadcasting in multiple sport environments and emphasizes topics such as professional sports broadcasting, sports talk radio, play-by-play vs. color commentary, broadcasting for non-mainstream sports, gender/ethnicity issues in broadcasting, broadcasting ethics, broadcasting critiques.

**SPCOM 341 - Sports Planning and Promotion**

**Credit Hours: 3**

Focuses on special event planning, processes, and management practices. Students will develop the skills necessary to manage all aspect of a sporting or special event, including planning and logistics, scheduling and marketing, and risk management.

**SPCOM 390 - Topics in Sports Communication**

**Credit Hours: 3**

This course wil explore trends and topics in the sports industry as they relate to the evolving field of sports communication.

Repeatability: Course can be repeated for credit as topics change.

**SPCOM 401 - Sports Communication Practicum**

**Credit Hours: 1**

Provides hands-on experience in the sports communication field. Working in professional settings, students hone the skills learned in their preparatory classes.

Prerequisite: Permission of instructor

**SPCOM 495 - Seminar in Sports Communication**

**Credit Hours: 3**

This is the capstone course for students completing the sports communication major. The students engage in an in-depth research study that links their general course work, their specialized training and their clinical experience. Topics are selected in consultation with the supervising faculty member.

Prerequisite: Permission of instructor

**SPST 105 - Introduction to Sports Analytics**

**Credit Hours: 3**

Is designed to provide the foundations of statistics through the study of sports. Topics include both descriptive and inferential statistics and probability theory. Emphasis is placed on critical thinking in the use of statistics to make decisions.

**SPST 201 - Facility Management**

**Credit Hours: 3**

This course will introduce management theories and provide practical experiences in the design, development, operation, maintenance and administration of various recreational facilities. This course will examine a variety of sport events and venues such as indoor stadiums, athletic field complexes, and community facilities. Management topics will include but are not limited to personnel communication, risk management, budgeting, and the management of physical resources.

**SPST 202 - Sports Governance****Credit Hours: 3**

This course will provide an overview of governance structures within professional and amateur sport organizations. Students will explore policy elements and issues within scholastic, amateur, campus recreation, intercollegiate athletics, professional sport, and Olympic sport. This course will examine the mission, structure and function of sport governing bodies such as the NCAA, NAIA, Professional player's associations, and the IOC.

**SPST 203 - Foundations of Athletic Skill****Credit Hours: 3**

This course instructs the fundamental skills of the individual sports of archery, badminton, bowling, dance, racquetball, and tennis. Instructs fundamental skills of the team sports of basketball, soccer/speedball, softball, volleyball, field hockey (women), and football (men). Special emphasis is placed upon instruction and practice to allow for development of participants skill level.

**SPST 302 - Sports Administration Practicum****Credit Hours: 1**

This course provides hands-on experience in the sport administration field. Working in professional settings, students hone the skills they learned in their preparatory classes.

Prerequisite: Permission of Instructor

Repeatability: This course may be repeated for credit.

**SPST 303 - Coaching Practicum****Credit Hours: 1**

This course provides hands-on experience in the sports coaching field. Work in professional settings, students hone the skills they learned in their preparatory classes. Practicum hours may not be completed in season of the sport a student is participating in at the varsity or junior varsity level.

Prerequisite: Permission of instructor

Repeatability: Student may take the class no more than 3 times for credit.

**SPST 344 - Legal Issues in Sport****Credit Hours: 3**

Provides an introduction to the major legal factors influencing sports and athletics, including gender and Title IX; safety, risk management, and liability; children, special populations, and ADA compliance, and employment issues.

### **SPST 355 - Sports Ethics**

**Credit Hours: 3**

This course explores the various ethical issues in the area of sport and athletics. The class presents the framework for arriving at ethical decisions and actions, while uncovering the pressures to act in an unethical manner.

### **SPST 402 - Sport Administration Practicum**

**Credit Hours: 1**

Provides hands-on experience in the sport administration field. Working in professional settings, students hone the skills they learned in their preparatory classes.

Prerequisite: Permission of Instructor

### **SPST 403 - Coaching Practicum**

**Credit Hours: 1**

Provides hands-on experience in the sports coaching field. Working in professional settings, students hone the skills they learned in their preparatory classes.

Prerequisite: Permission of Instructor

### **SPST 418 - Coaching Team Sports**

**Credit Hours: 3**

This course will provide an overview of the concepts that are essential in the preparation of sport coaching. Students will evaluate the current theoretical perspectives in the field of sport psychology and critically evaluate the current research in coaching sports. Topics include developing a coaching philosophy, evaluating theories in motivation, understanding team dynamics, communicating effectively, and improving player performance.

### **SPST 441 - Sports Management**

**Credit Hours: 3**

This course involves the study of sports business from a managerial and marketing perspective. Studies include the concepts, tactics, and issues across two main thrusts in sports business: (1) the managing and marketing of goods and services directly to consumers of sports, and (2) the managing and marketing of other consumers and industrial goods and services through the use of sport promotion.

Prerequisite: BUSI 221, BUSI 241

### **SPST 490 - Coaching Colloquium**

**Credit Hours: 1**

This course will provide essentials for preparing to coach in a K-12 setting. Students will complete training in topics such as concussions in sports, fundamentals of coaching high school sports, sport injury prevention, sudden cardiac arrest and other topics. Successful completion of the course will aid in students being able to obtain OHSAA Coach Certification.

**SPST 496 - Seminar in Sport Administration****Credit Hours: 3**

The capstone course for students completing the Sport Administration major. The students engage in an in-depth research study that links their general course work, their specialized training and their clinical experience. Topics are selected in consultation with the supervising professor.

Prerequisite: Permission of instructor

**THEA 103 - Practicum in Theatre****Credit Hours: 1**

Provides laboratory or workshop experiences in technical theatre, design, acting, directing, theatre management history, or criticism.

Restrictions: maximum of two hours per year; maximum of four hours toward major or minor.

Note: Registration is by permission of production directors. Graded S/U. Exception: concurrent enrollment in THEA 403 and THEA 496 requires a letter grade.

**THEA 151 - Introduction to Theatre****Credit Hours: 3**

Surveys theatre history and the arts of acting, directing, designing, playwriting, and criticism for a greater understanding of theatre in the world.

**THEA 195 - Topics in Theatre****Credit Hours: 1-3**

This is an introductory course focused upon a variety of subjects in theatre. Topics such as theatre management and technical skills may be offered.

Repeatability: This class may be repeated for credit as content changes, with up to 6 credit hours counting toward graduation.

**THEA 203 - Practicum in Theatre****Credit Hours: 1**

Provides laboratory or workshop experiences in technical theatre, design, acting, directing, theatre management history, or criticism.

Restrictions: maximum of two hours per year; maximum of four hours toward major or minor.

Note: Registration is by permission of production directors. Graded S/U. Exception: concurrent enrollment in THEA 403 and THEA 496 requires a letter grade.

## **THEA 205 - Portfolio Review**

### **Credit Hours: 1**

Assists students in creating, presenting and discussing a professional, digital technical portfolio as preparation for professional technical interviews.

Repeatability: May be repeated three times credit.

## **THEA 223 - Auditioning**

### **Credit Hours: 1**

Examines audition technique for monologues, cold readings, improvisation, and vocal performance. Students prepare headshots and resumes, develop a repertoire of monologues and songs, and audition for professional employment.

Repeatability: May be repeated once for credit.

## **THEA 230 - Stage Management**

### **Credit Hours: 3**

An overview of the duties and work of a stage manager in the theatrical process. Students will learn to create the tools utilized by a working stage manager and gain an understanding of the role of a stage manager in the theatrical process. This course is recommended for a student interested in management, directing, or technical theatre.

## **THEA 245 - Technical Production**

### **Credit Hours: 3**

Involves students through lecture and laboratory work in the technical process of creating theatre. Topics include: reading working drawings and interpreting design, basic carpentry, painting, props technology, sewing, elementary lighting technology, general problem solving, and the safe and proper use of all equipment needed to complete production tasks. Participation in theatre productions is required.

## **THEA 265 - Design I: Explorations in Theatre Design**

### **Credit Hours: 3**

An introductory exploration of the role of design in the theatrical process. The class will focus on interpreting theatrical works through visual research, storytelling, and communication, as well as the initial tools used in each area of design to create and explain these stories. Students will be given hands on experience in all areas of design and will be given the tools needed to choose an area of focus for a final project in Scenic, Costume, or Lighting Design. At the end of the semester they will complete a basic design packet and portfolio in their area of choice.

## **THEA 275 - Acting I**

**Credit Hours: 3**

Examines acting through theories and exercises. Scene study is designed to enable students to create a role for the stage. This is a process-oriented course, which provides the student with a foundation of script analysis and creative skill.

**THEA 285 - Dance for Musical Theatre****Credit Hours: 1-3**

Explores various dance genres appropriate for application in musical theatre. The student studies the historic application of the genre and choreographs and executes/performs music theatre dance styles. The course examines different sets of styles during a three-semester rotation.

Repeatability: The course may be repeated with a maximum of four hours counting toward a music theatre minor or theatre major. A maximum of six hours may be counted toward graduation.

**THEA 303 - Practicum in Theatre****Credit Hours: 1**

Provides laboratory or workshop experiences in technical theatre, design, acting, directing, theatre management history, or criticism.

Restrictions: maximum of two hours per year; maximum of four hours toward major or minor.

Note: Registration is by permission of production directors. Graded S/U. Exception: concurrent enrollment in THEA 403 and THEA 496 requires a letter grade.

**THEA 314 - Acting II****Credit Hours: 3**

Continues to explore acting through theories, exercises, and scene study. Students examine a variety of acting styles, approaches, and genres.

Prerequisite: THEA 275

**THEA 316 - Improvisation****Credit Hours: 3**

Examines the skills and techniques used in improvisational theatre performance. Students build acting skills through exercises, solo work, as well as ensemble activity.

**THEA 350 - A History of Film****Credit Hours: 3**

Surveys the history and nature of film with emphasis upon the American contribution to film art, genres, acting, directing, and cinematography.

## **THEA 351 - World Theatre History**

### **Credit Hours: 3**

Focuses on the historical development of theatrical production. Examines dramatic tradition from Greek origins, observes its evolution through history, and traces the progress of theatrical styles throughout the world. Primary source documents highlight the contributions of major critics and theorists of theatrical tradition.

## **THEA 352 - Dramatic Literature**

### **Credit Hours: 3**

Closely examines representative dramatic literary texts. Particular consideration is given to the application of literature on stages and examining plays for a better understanding of our vast theatrical and cultural heritage.

## **THEA 356 - Playwriting**

### **Credit Hours: 3**

Introduces the basic techniques of structure and dialogue in writing a play. Students experience writing, reading, and revising performance work.

## **THEA 360 - American Musical Theatre: History and Structure**

### **Credit Hours: 3**

An exploration of the development and history of the American musical and its impact on theatre in the United States and abroad. Students will study the evolution of the art-form in order to understand the structure of musical script, and will be given the opportunity to start developing their own musical.

## **THEA 365 - Design II: Intermediate Studies in Theatre Design**

### **Credit Hours: 3**

An intermediate study in theatre design. Students will choose from Scenic, Costume, or Lighting/Sound Design and will progress in their studies from Design I. Topics include but are not limited to advanced visual research, period styles, portfolio creation, sketching and rendering, as well as design area-specific tools.

Prerequisite: THEA 265 or permission of the instructor

## **THEA 375 - Directing I**

### **Credit Hours: 3**

Examines the art of directing through theories and procedures of production, including preliminary applied playscript analysis. Offers introductory experience through the application of the tools of picturization, composition, and movement in the production of several in-class scenes.

Prerequisite: THEA 245, THEA 275

## **THEA 381 - Selected Readings in Theatre**

**Credit Hours: 1-3**

Introduces a variety of theatre genres.

Repeatability: May be repeated twice for credit as content changes.

## **THEA 383 - Professional Studies in Theatre**

**Credit Hours: 3**

Provides field experiences between semesters and during the summer.

## **THEA 395 - Special Topics in Theatre**

**Credit Hours: 1-3**

Focuses upon a variety of subjects in theatre. Topics such as theatre management may be offered.

Repeatability: May be repeated once for credit as content changes.

## **THEA 396 - Theatre Research: Methods and Theory**

**Credit Hours: 3**

This course develops the research and analysis skills necessary to complete the Seminar in Research. Students examine the major critics and theorists of theatrical tradition and are introduced to various research methods.

Prerequisite: Departmental Approval

## **THEA 403 - Practicum in Theatre**

**Credit Hours: 1**

Provides laboratory or workshop experiences in technical theatre, design, acting, directing, theatre management history, or criticism.

Restrictions: maximum of two hours per year; maximum of four hours toward major or minor.

Note: Registration is by permission of production directors. Graded S/U. Exception: concurrent enrollment in THEA 403 and THEA 496 requires a letter grade.

## **THEA 414 - Directing II**

**Credit Hours: 3**

Rigorously studies theories and applications of directing. Students undertake sustained collaborative projects, experience the process of developing personal style, and explore varied techniques and diverse styles of production.

Prerequisite: THEA 375



## **THEA 465 - Design III: Advanced Studies in Theatre Design**

### **Credit Hours: 3**

Building on the studies of Design I and II, Design III is for the advanced Theatre student. Students will continue studies in research and storytelling, as well as studio work, creating the tools needed to communicate a design in their area of focus. The goal of this course is to prepare a student to assist on a departmental production or design a small production when available. Topics include portfolio building, advanced research, technical theatre procedure and elements, sketching and rendering, as well as area-specific topics.

Prerequisite: THEA 245, THEA 365 or permission of the instructor

## **THEA 494 - Methods of Teaching Drama/Theatre**

### **Credit Hours: 2**

Introduces a candidate for teacher certification in drama/theatre to classroom methods and materials necessary for teaching the theatre discipline.

## **THEA 495 - Theatre Senior Seminar**

### **Credit Hours: 3**

Intensively examines a selected theatre area: design, acting/directing, or history/criticism. Students develop a project prospectus in the first four weeks and spend the remainder of the semester in an independent study guided by a faculty member.

Repeatability: May be repeated once for credit.

## **THEA 496 - Independent Study in Realized Production**

### **Credit Hours: 2**

Provides students who have developed approved projects in THEA 495 with an intensive period of production and performance in the areas of design, acting, technology or directing.

Prerequisite: THEA 495 and instructor approval

## **WRLD 111 - Beginning World Language I**

### **Credit Hours: 3**

Designed to develop listening, speaking, writing, and reading skills in a world language as well as intercultural competency.

Prerequisite: This course is intended for students with no prior knowledge of the target language or those who have had 1-2 years or less of the target language instruction in high school.

Repeatability: Course may be repeated up to three times for credit if in different languages.

## **WRLD 112 - Beginning World Language II**

**Credit Hours: 3**

This course is designed as an introduction to listening comprehension, speaking, reading, and writing for students who have had some prior exposure to the language. The primary goal is acquiring communicative proficiency and intercultural skills to prepare you for cross-cultural communication in the workplace and beyond.

Prerequisite: Prerequisite: 2-3 years of high school instruction in the language, WRLD 111 in the same language, or equivalent transfer credit.

**WRLD 200 - Cross-Cultural Communication****Credit Hours: 3**

Examines communication across cultures, including traditional and contemporary definitions of culture, culture and identity, how culture affects perception, variables that act as barriers to successful communication, nonverbal communication cues, theories of culture and theories of communication, dominant American cultural patterns, immigration and acculturation, cultures within cultures, and the lasting effects of contact on cultures. Concepts are illustrated by examples from multiple cultures.

**WRLD 250 - Introduction to Second Language Acquisition****Credit Hours: 3**

Introduces students to the basic theories of how humans learn languages. A basis in first language acquisition learning will be built on theories posited by Skinner, Piaget, Chomsky, and Vygotsky. These theories then lead to an examination and understanding of how learners acquire second languages, including elements of the first and second languages that influence one another.

**WRLD 251 - Conversation Table****Credit Hours: 1**

This 1-credit course is a weekly meeting designed to increase or maintain fluency and to expand vocabulary in a World Language.

Prerequisite: WRLD 111 or 1-2 years of high school instruction in the target language.

Repeatability: The course may be taken up to three times for credit but applied to the major or minor only twice.

**WRLD 300 - TEFL Methods and Approaches****Credit Hours: 3**

Explores the field of teaching English as a foreign language from the perspective of the latest instructional methods and approaches. While relating to general theories from the field of second language acquisition, the course focuses specifically on their application in foreign language environments (i.e., countries where English is not spoken as a native language and/or does not have official or semi-official status).

**WRLD 310 - Study Abroad Experience****Credit Hours: 1**

This course supports study abroad experiences. Students attend preparatory meetings and participate in assignments designed to give instruction on how to prepare for and what to expect from travel. During travel, students engage in a regular practice of communication and support. At the end of the experience, students submit a reflection paper on formal and informal learning gained during the stay. A virtual or in-person presentation may be assigned by the instructor.

Prerequisite: Approved Study Abroad

## **WRLD 360 - Topics in World Language and Culture**

**Credit Hours: 1-3**

Provides an opportunity to study a topic of interest related to world languages and cultures. Courses in topical areas not offered in the regular curriculum may be offered on a rotating basis.

Prerequisite: Sophomore standing and permission of instructor

Repeatability: The course may be repeated for credit as subject matter changes.

## **WRLD 375 - English for TEFL**

**Credit Hours: 3**

Focuses on English grammar and structural components specifically related to students learning English as a second language. In order to be effective EFL teachers, students must have a strong grasp of the grammatical and structural concepts that challenge English Language Learners (ELLs). The course focuses on the metalanguage of English grammar and highlights grammatical and structural concepts with which ELLs typically have difficulty. Methods and strategies of teaching grammar to EFL students are also studied.

## **WRLD 397 - Methods in Teaching World Languages**

**Credit Hours: 3**

This course deals with the theory, methods, and techniques of foreign-language teaching at the pre-K through 12 levels. Does not count toward required hours for language majors.

Co-requisite: EDUC 301

# **Majors and Minor Requirements**

## **Majors**

### **Accounting (Public) Major**

Major Requirements: (60 Hours Within a 150 Hour Degree Program)

- ACCT 201 - Financial Accounting **Credit Hours: 3**
- ACCT 202 - Managerial Accounting **Credit Hours: 3**
- ACCT 301 - Intermediate Accounting I **Credit Hours: 3**

- ACCT 302 - Intermediate Accounting II **Credit Hours: 3**
- ACCT 363 - Cost Accounting **Credit Hours: 3**
- ACCT 364 - Income Taxes **Credit Hours: 3**
- ACCT 411 - Advanced Accounting **Credit Hours: 3**
- ACCT 412 - Auditing **Credit Hours: 3**
- ACCT 420 - Accounting Information Systems **Credit Hours: 3**
- ACCT 421 - Advanced Taxation **Credit Hours: 3**
- ACCT 422 - Governmental Accounting and Auditing **Credit Hours: 3**
- ACCT 495 - Seminar **Credit Hours: 3**
- BUSI 221 - Organizational Management **Credit Hours: 3**
- BUSI 318 - Managerial Finance **Credit Hours: 3**
- BUSI 325 - Statistics **Credit Hours: 3**
- BUSI 360 - Business Law **Credit Hours: 3**
- BUSI 414 - Business Ethics **Credit Hours: 3**
- one EAB elective
- ECON 215 - Principles of Microeconomics **Credit Hours: 3**
- ECON 216 - Principles of Macroeconomics **Credit Hours: 3**

## **Accounting Major**

### **Major Requirements: (36 Hours)**

- ACCT 201 - Financial Accounting **Credit Hours: 3**
- ACCT 202 - Managerial Accounting **Credit Hours: 3**
- ACCT 301 - Intermediate Accounting I **Credit Hours: 3**
- ACCT 302 - Intermediate Accounting II **Credit Hours: 3**
- ACCT 363 - Cost Accounting **Credit Hours: 3**
- ACCT 364 - Income Taxes **Credit Hours: 3**
- ACCT 411 - Advanced Accounting **Credit Hours: 3**
- ACCT 412 - Auditing **Credit Hours: 3**
- ACCT 495 - Seminar **Credit Hours: 3**
- ECON 215 - Principles of Microeconomics **Credit Hours: 3**
- ECON 216 - Principles of Macroeconomics **Credit Hours: 3**

### **Select one from:**

- ACCT 420 - Accounting Information Systems **Credit Hours: 3**
- ACCT 421 - Advanced Taxation **Credit Hours: 3**
- or
- ACCT 422 - Governmental Accounting and Auditing **Credit Hours: 3**

## **Animal Studies Major**

### **Major Requirements: (38 Hours)**

- ANST 250 - Career Development in Animal Studies **Credit Hours: 1**
- ANST 495 - Senior Seminar in Animal Studies **Credit Hours: 3**
- BIOL 111 - Organismal Biology I **Credit Hours: 3**
- BIOL 107 - Biology Laboratory I **Credit Hours: 1**
- BIOL 112 - Organismal Biology II **Credit Hours: 3**
- BIOL 108 - Biology Laboratory II **Credit Hours: 1**
- BIOL 240 - Animal Behavior **Credit Hours: 3**
- HLSC 315 - Public Health and Epidemiology **Credit Hours: 3**
- PHIL 331 - Environmental Ethics **Credit Hours: 3**

## Electives:

The remaining 17 hours are drawn from the following three areas (minimum of three credits from each of the three areas).

### Area I: Science

- BIOL 232 - Vertebrate Natural History **Credit Hours: 4**
- BIOL 305 - Human Genetics **Credit Hours: 3**
- BIOL 346 - Pathophysiology **Credit Hours: 3**
- BIOL 373 - Comparative Vertebrate Anatomy **Credit Hours: 4**
- CVSC 331 - Conservation Biology **Credit Hours: 4**
- GEOG 310 - Introduction to Geographic Information Systems **Credit Hours: 3**
- PSYC 151 - General Experimental Psychology **Credit Hours: 4**
- PSYC 281 - Physiological Psychology **Credit Hours: 3**

### Area II: Behavior & Communication

- COMM 246 - Interpersonal Communication **Credit Hours: 3**
- COMM 335 - Small Group Communication **Credit Hours: 3**
- COMM 345 - Interviewing **Credit Hours: 3**
- COMM 355 - Organizational Communication **Credit Hours: 3**
- ENGL 202 - Business Writing **Credit Hours: 3**
- PSYC 101 - Introduction to Psychology **Credit Hours: 3**
- PSYC 208 - Lifespan Development **Credit Hours: 3**
- PSYC 304 - Learning and Memory **Credit Hours: 3**
- PSYC 390 - Counseling Theory and Process **Credit Hours: 3**

### Area III: Management & Administration

- ACCT 201 - Financial Accounting **Credit Hours: 3**
- ACCT 202 - Managerial Accounting **Credit Hours: 3**
- BUSI 221 - Organizational Management **Credit Hours: 3**
- BUSI 241 - Marketing **Credit Hours: 3**
- BUSI 415 - Human Resource Management **Credit Hours: 3**

# Art Major

## Art Major Requirements: (38 Hours)

- One art course elective
- Portfolio for acceptance into major program
- One to three pieces may be retained as part of the student section of the Permanent Art Collection

## Foundation year:

- ART 112 - Drawing I **Credit Hours: 3**
- ART 120 - Three-Dimensional Design **Credit Hours: 3**
- ART 151 - Introduction to Art **Credit Hours: 3**
- ART 170 - Graphic Design I **Credit Hours: 3**

## Additional Requirements:

- ART 121 - Ceramics I **Credit Hours: 3**
- ART 131 - Sculpture I **Credit Hours: 3**
- ART 212 - Drawing II **Credit Hours: 3**
- ART 241 - Painting I **Credit Hours: 3**
- ART 490 - Senior Seminar and Capstone Assessment **Credit Hours: 2**

## Two Courses From

- ART 350 - Art History I **Credit Hours: 3**
- ART 351 - Art History II **Credit Hours: 3**
- ART 352 - Art History III **Credit Hours: 3**

## One Course From

- ART 321 - Ceramics III **Credit Hours: 3**
- ART 331 - Sculpture III **Credit Hours: 3**
- ART 370 - Graphic Design III **Credit Hours: 3**
  
- ART 412 - Life Drawing **Credit Hours: 3**
- or
- ART 441 - Painting III **Credit Hours: 3**

## Completion of Junior Year Review Prior to the Senior Capstone Review

## Capstone Experience Requirements:

1. Electronic Portfolio development
2. Art-related writings

3. Development of interdisciplinary art
4. Development of inter-cultural diversity art
5. Development of technology related to art

## Biology Major

### Biology Major Requirements: (46 Credit Hours)

- BIOL 111 - Organismal Biology I **Credit Hours: 3**
- BIOL 107 - Biology Laboratory I **Credit Hours: 1**
- BIOL 112 - Organismal Biology II **Credit Hours: 3**
- BIOL 108 - Biology Laboratory II **Credit Hours: 1**
- BIOL 226 - Introduction to Cell and Molecular Biology **Credit Hours: 3**
- BIOL 306 - Genetics **Credit Hours: 4**
- BIOL 308 - General Ecology **Credit Hours: 4**
- BIOL 336 - Cellular Physiology **Credit Hours: 4**
- BIOL 420 - Senior Seminar **Credit Hours: 3** (taken in the Junior or Senior year)
- CHEM 111 - General Chemistry I **Credit Hours: 4**
- CHEM 112 - General Chemistry II **Credit Hours: 4**
  
- MATH 140 - Practical Statistics **Credit Hours: 3**  
or
- MATH 170 - Applied College Algebra **Credit Hours: 3**  
or
- any math higher than 170

### Electives:

The remaining 12 credit hours can be completed from the following elective courses:

- BIOL 121 - Anatomy & Physiology I **Credit Hours: 4**
- BIOL 122 - Anatomy & Physiology II **Credit Hours: 4**
- BIOL 213 - Functional Histology **Credit Hours: 4**
- BIOL 221 - Vascular Plant Systematics **Credit Hours: 4**
- BIOL 232 - Vertebrate Natural History **Credit Hours: 4**
- BIOL 240 - Animal Behavior **Credit Hours: 3**
- BIOL 304 - Evolution **Credit Hours: 4**
- BIOL 312 - Microbiology **Credit Hours: 4**
- BIOL 321 - Advanced Botany **Credit Hours: 4**
- BIOL 346 - Pathophysiology **Credit Hours: 3**
- BIOL 368 - Fundamental Neuroscience **Credit Hours: 4**
- BIOL 373 - Comparative Vertebrate Anatomy **Credit Hours: 4**
- BIOL 375 - Molecular Biology **Credit Hours: 4**
- BIOL 385 - Topics in Biology **Credit Hours: 1-4**
- BIOL 421 - Biological Research **Credit Hours: 2**
- BIOL 422 - Biological Research **Credit Hours: 2**
- CVSC 331 - Conservation Biology **Credit Hours: 4**

- NRSC 386 - Neuropharmacology **Credit Hours: 4**

## One Course from the Following List

At most, one course from the following list will count as credit toward biology major electives:

- EVSC 121 - Environmental Issues **Credit Hours: 1**
- EVSC 421 - Topics in Environmental Science **Credit Hours: 1**
- MBIO 211 - Topics in Molecular Biology **Credit Hours: 1**
- MBIO 411 - Topics in Molecular Biology **Credit Hours: 1**
- CVSC 231 - Conservation Science Discussion **Credit Hours: 1**
  
- CVSC 431 - Topics in Conservation Science **Credit Hours: 1**  
or
- NRSC 201 - Topics in Neuroscience **Credit Hours: 1**

## Gen Ed Issues Courses

Gen Ed issues courses (the 106 group) count as two credit hours toward the electives in the major.

BIOL 305 cannot be counted as credit toward the biology major.

## Business Management Major

### Major Requirements: (42 Hours)

- BUSI 221 - Organizational Management **Credit Hours: 3**
- BUSI 241 - Marketing **Credit Hours: 3**
- BUSI 318 - Managerial Finance **Credit Hours: 3**
- BUSI 495 - Seminar **Credit Hours: 3** (replace with an upper level elective if used for marketing major)
- ACCT 201 - Financial Accounting **Credit Hours: 3**
- ACCT 202 - Managerial Accounting **Credit Hours: 3**
- BUSI 325 - Statistics **Credit Hours: 3**  
or
- ECON 333 - Intermediate Microeconomic Theory **Credit Hours: 3**
- ECON 215 - Principles of Microeconomics **Credit Hours: 3**
- ECON 216 - Principles of Macroeconomics **Credit Hours: 3**
- ECON 311 - Money and Banking **Credit Hours: 3**

### Electives:

4 courses from

- BUSI 325 - Statistics **Credit Hours: 3** (if student also completes ECON 333)
- BUSI 326 - Financial Analysis and Investment **Credit Hours: 3**
- BUSI 360 - Business Law **Credit Hours: 3**
- BUSI 411 - Topics in Business **Credit Hours: 3**
- BUSI 412 - International Business **Credit Hours: 3**



- BUSI 413 - Software Applications for Business **Credit Hours: 3**
- BUSI 414 - Business Ethics **Credit Hours: 3**
- BUSI 415 - Human Resource Management **Credit Hours: 3**
- BUSI 424 - Entrepreneurship **Credit Hours: 3**
- COMM 335 - Small Group Communication **Credit Hours: 3** (cannot count toward both business management and marketing major)
- COMM 345 - Interviewing **Credit Hours: 3**
- COMM 355 - Organizational Communication **Credit Hours: 3**
- ENGL 202 - Business Writing **Credit Hours: 3**
- HLSC 201 - Introduction to Health Administration **Credit Hours: 3**
- HLSC 326 - Health Care Finance **Credit Hours: 3**
- SPST 201 - Facility Management **Credit Hours: 3**
- SPST 441 - Sports Management **Credit Hours: 3**

## Notes

\*Adult undergraduate degree completers should refer to the MAP Guidebook.

## **Business Management Major (MAP)**

Major Requirements: (48 Semester Hours)

Business Management Core Requirements: (30 Credit Hours)

- ACCT 201 - Financial Accounting **Credit Hours: 3**
- ACCT 202 - Managerial Accounting **Credit Hours: 3**
- BUSI 321 - Management Techniques **Credit Hours: 3**
- BUSI 325 - Statistics **Credit Hours: 3**
- BUSI 360 - Business Law **Credit Hours: 3**
- BUSI 414 - Business Ethics **Credit Hours: 3**
- BUSI 420 - Management Information Systems **Credit Hours: 3**
- ECON 215 - Principles of Microeconomics **Credit Hours: 3**
- ECON 216 - Principles of Macroeconomics **Credit Hours: 3**

Choose One of the Following:

- COMM 355 - Organizational Communication **Credit Hours: 3**
- ENGL 202 - Business Writing **Credit Hours: 3**

Business Management Requirements: (18 Credit Hours)

For a complete listing of MAP requirements, policies and procedures please refer to the Muskingum Adult Program Guidebook(pdf).

- BUSI 318 - Managerial Finance **Credit Hours: 3**
- BUSI 326 - Financial Analysis and Investment **Credit Hours: 3**

- BUSI 341 - Marketing Techniques **Credit Hours: 3**
- BUSI 412 - International Business **Credit Hours: 3**
- BUSI 450 - Strategic Management **Credit Hours: 3**
- BUSI 496 - Bachelor of Science Seminar in Business **Credit Hours: 3**

## Chemistry Major

### Chemistry Major Requirements: (39-40 Hours in Chemistry Including)

- CHEM 111 - General Chemistry I **Credit Hours: 4**
- CHEM 112 - General Chemistry II **Credit Hours: 4**
- CHEM 213 - Organic Chemistry I **Credit Hours: 4**
- CHEM 214 - Organic Chemistry II **Credit Hours: 4**
- CHEM 230 - Foundational Inorganic Chemistry **Credit Hours: 3**
- CHEM 250 - Professional Development for Chemists **Credit Hours: 1**
- CHEM 315 - Physical Chemistry I **Credit Hours: 4**
- CHEM 335 - Analytical Chemistry **Credit Hours: 4**
- CHEM 355 - Advanced Laboratory in Chemistry **Credit Hours: 3**
- CHEM 454 - Chemistry Seminar and Literature Research **Credit Hours: 2**
- CHEM 455 - Chemistry Seminar and Laboratory Research **Credit Hours: 4**
- MATH 190 - Calculus I **Credit Hours: 4**
- MATH 200 - Calculus II **Credit Hours: 4**
- PHEN 121 - Classical Physics I **Credit Hours: 4**
- PHEN 122 - Classical Physics II **Credit Hours: 4**

### Chemistry Electives:

at least one course from

- CHEM 316 - Physical Chemistry II **Credit Hours: 3**
- CHEM 418 - Biochemistry I **Credit Hours: 4**
- CHEM 419 - Biochemistry II **Credit Hours: 3**
- CHEM 425 - Advanced Inorganic Chemistry **Credit Hours: 4**
- CHEM 441 - Forensic Chemistry Laboratory **Credit Hours: 3**
- CHEM 445 - Topics in Modern Chemistry **Credit Hours: 1-3**

### Recommended Electives:

- MATH 140 - Practical Statistics **Credit Hours: 3**
- CPSC 111 - Computer Science I **Credit Hours: 3**
- a world language

### Tracks

- American Chemical Society certification
- American Chemical Society Certification - Biochemistry Track

- Pre-Health Track
- Pre-Pharmacy Track
- Forensic Chemistry Track
- Neurochemistry Track
- [3+1] Major

## Child and Family Studies Major

### Major Requirements:

#### Child and Family Studies Core Requirements: (34 Hours)

- EDUC 112 - Educational Implications of Diversity **Credit Hours: 3**
- EDUC 334 - Family-Centered Practices **Credit Hours: 3**
- HLSC 308 - Community Health **Credit Hours: 3**
- PSYC 101 - Introduction to Psychology **Credit Hours: 3**
- PSYC 321 - Social Psychology **Credit Hours: 3**
- SOCI 101 - The Sociological Perspective **Credit Hours: 3**
- SOCI 345 - Sociology of the Family **Credit Hours: 3**
- CHFST 495 - Senior Seminar **Credit Hours: 3**

#### Choose one from the following:

- PSYC 220 - Preschool Practicum **Credit Hours: 1**
- PSYC 222 - General Practicum **Credit Hours: 1**

#### Choose two from the following:

- PSYC 205 - Child Development **Credit Hours: 3**
- PSYC 208 - Lifespan Development **Credit Hours: 3**
- PSYC 308 - Adolescence and Youth **Credit Hours: 3**
- PSYC 309 - Adulthood and Aging **Credit Hours: 3**

#### Choose one from the following:

- CRMJ 390 - Topics in Criminal Justice **Credit Hours: 3**
- PSYC 409 - Topics in Psychology **Credit Hours: 3**
- SOCI 352 - Selected Topics in Sociology **Credit Hours: 3**

### Area of Specialization

(select one)

- Administration Track
- Human Services Track

- Later Life Families

## **Communication Studies, Major**

Major Requirements: (31 Hours)

Communication Studies Major Core Requirements:

- COMM 200 - Fundamentals of Speech Communication **Credit Hours: 3**
- COMM 325 - Communication Theory **Credit Hours: 3**
- COMM 246 - Interpersonal Communication **Credit Hours: 3**
- COMM 335 - Small Group Communication **Credit Hours: 3**
- COMM 360 - Research Methods **Credit Hours: 3**
- COMM 495 - Seminar **Credit Hours: 3**
- MEDIA 210 - Media Literacy **Credit Hours: 3**

Electives: (10 hours total)

Remaining hours may include up to 6 hours in any performance area and practica, or with departmental approval, a maximum of 6 hours of Theatre. (Practica and Theatre hours may not exceed 6 total credits towards the major)

- COMM 120 - Introduction to Communication **Credit Hours: 3**
- COMM 205 - Professional Speaking **Credit Hours: 3**
- COMM 260 - Oral Interpretation of Literature **Credit Hours: 3**
- COMM 315 - Argumentation **Credit Hours: 3**
- COMM 316 - Intercollegiate Forensics **Credit Hours: 2**
- COMM 330 - Communication, Sports, and America **Credit Hours: 3**
- COMM 328 - Health Communication **Credit Hours: 3**
- COMM 335 - Small Group Communication **Credit Hours: 3**
- COMM 345 - Interviewing **Credit Hours: 3**
- COMM 395 - Special Topics in Communication **Credit Hours: 3-6**
- MEDIA 312 - Electronic Media Structure and Content **Credit Hours: 3**

## **Community Health and Wellness Major (MAP)**

**The Community Health & Wellness major is designed for healthcare professionals from a variety of healthcare backgrounds with an Associate of Science (AS) degree who wish to obtain a Bachelor of Science (BS) degree to enable them to explore more holistic clinical practices.**

This major is excellent preparation to serve in one of the emerging community-based services such as Wellness Coaching, Health Coaching, and Health Manager, which are supported by current trends in the American healthcare system and by the Affordable Care Act. Professionals from a variety of clinical backgrounds including occupational therapy and human social services can select this major.

## Major Requirements: (30 Semester Hours for Major)

### Community Health and Wellnes Core Requirements: (12 Credit Hours)

- HLSC 301 - The American Health Care System **Credit Hours: 3**
- HLSC 307 - Health Communication and Promotion **Credit Hours: 3**
- HLSC 495 - Seminar in Health Science **Credit Hours: 3**

Choose one of the following:

- HLSC 304 - Statistics for the Health Sciences **Credit Hours: 3**
- HLSC 305 - Health Informatics **Credit Hours: 3**

### Foundational Core Requirements: (9 Credit Hours)

- HLSC 315 - Public Health and Epidemiology **Credit Hours: 3**
- HLSC 406 - Legal Issues in Healthcare **Credit Hours: 3**
- HLSC 308 - Community Health **Credit Hours: 3**

### Community Health & Wellness Electives: (9 Credit Hours)

Choose Three of the Following:

- HLSC 312 - Social Gerontology **Credit Hours: 3**
- HLSC 331 - Nutrition and Health **Credit Hours: 3**
- HLSC 345 - Personal Health **Credit Hours: 3**
- PSYC 308 - Adolescence and Youth **Credit Hours: 3**
- PSYC 309 - Adulthood and Aging **Credit Hours: 3**
- PSYC 430 - Psychology of Injury **Credit Hours: 3**
- SOCI 320 - Racial and Cultural Minorities **Credit Hours: 3**
- SOCI 345 - Sociology of the Family **Credit Hours: 3**

## Customize Your Curriculum Plan

MAP majors are designed to accomodate the demands of your career and personal life. Most courses are offered multiple times per year within four 10-week terms. This allows you to:

Adjust your course load: take only 1 or up to 4 courses each term

Choose the pace at which you will complete your program: take courses in just one term each year, or in all 4

Customized dual majors and or/minors: Your Health-Related Program Advisor will help you create a curriculum plan to meet your career goals

[Click here for Muskingum Adult Program \(MAP\) General Education and Degree Requirements](#)

For additional information, contact Jennifer Baird, Allied Health Programs Advisor, at [jbaird@muskingum.edu](mailto:jbaird@muskingum.edu) or 740-826-8470

For a complete listing of MAP requirements, policies and procedures please refer to the Muskingum Adult Program Guidebook(pdf).

## Computer Science Major

### Major Requirements: (35 Hours In Computer Science)

- CPSC 100 - Introduction to Computer Science **Credit Hours: 3**
  - CPSC 111 - Computer Science I **Credit Hours: 3**
  - CPSC 211 - Computer Science II **Credit Hours: 3**
  - CPSC 230 - Systems Programming **Credit Hours: 3**
  - CPSC 320 - Algorithm Analysis **Credit Hours: 3**
  - CPSC 340 - Programming Languages **Credit Hours: 3**
  - CPSC 365 - Web Applications and Database Management Systems **Credit Hours: 3**
  - CPSC 400 - Programming Projects **Credit Hours: 1**
- or
- an internship in the computing field
  - CPSC 450 - Operating Systems **Credit Hours: 3**
  - CPSC 455 - Software Engineering **Credit Hours: 3**
  - CPSC 495 - Computer Science Seminar **Credit Hours: 1**
  - MATH 190 - Calculus I **Credit Hours: 4**
  - MATH 240 - Discrete Mathematics I **Credit Hours: 3**
  - MATH 250 - Discrete Mathematics II **Credit Hours: 3**
  - MATH 230 - Linear Algebra and Vectors **Credit Hours: 3**
- or
- MATH 340 - Mathematical Statistics **Credit Hours: 3**

### Electives:

3 courses from

- CPSC 220 - Applied Computer Programming **Credit Hours: 3**
- CPSC 335 - Computer Security **Credit Hours: 3**
- CPSC 345 - Mobile Application Development **Credit Hours: 3**
- CPSC 430 - 3D Game Programming **Credit Hours: 3**
- CPSC 480 - Computer Networks **Credit Hours: 3**
- CPSC 490 - Advanced Topics in Computer Science **Credit Hours: 3**
- MATH 350 - Numerical Analysis **Credit Hours: 3**

## Conservation Science Major

## Major Requirements:

### Fundamental Group

#### Requirements:

- BIOL 111 - Organismal Biology I **Credit Hours: 3**
- BIOL 107 - Biology Laboratory I **Credit Hours: 1**
- BIOL 112 - Organismal Biology II **Credit Hours: 3**
- BIOL 108 - Biology Laboratory II **Credit Hours: 1**
- BIOL 226 - Introduction to Cell and Molecular Biology **Credit Hours: 3**
- CHEM 111 - General Chemistry I **Credit Hours: 4**
- CHEM 112 - General Chemistry II **Credit Hours: 4**
- ECON 215 - Principles of Microeconomics **Credit Hours: 3**
- GEOL 101 - Introduction to Geology **Credit Hours: 4**
- POLS 322 - Public Policy **Credit Hours: 3**

### One Course From

- BUSI 325 - Statistics **Credit Hours: 3**
- MATH 140 - Practical Statistics **Credit Hours: 3**
  
- MATH 340 - Mathematical Statistics **Credit Hours: 3**  
or
- PSYC 232 - Behavioral Statistics **Credit Hours: 3**

### Conservation Group

#### Requirements:

- CVSC 331 - Conservation Biology **Credit Hours: 4**
- CVSC 437 - Conservation Science Research Seminar I **Credit Hours: 3**
- CVSC 438 - Conservation Science Research Seminar II **Credit Hours: 2**
- CVSC 439 - Conservation Science Research Seminar III **Credit Hours: 2**
- CVSC 231 - Conservation Science Discussion **Credit Hours: 1**  
or
- CVSC 431 - Topics in Conservation Science **Credit Hours: 1**

### A Group

*(Select at least 11 hours; no more than 8 hours can be selected from the same discipline)*

- BIOL 304 - Evolution **Credit Hours: 4**
- BIOL 306 - Genetics **Credit Hours: 4**
- BIOL 308 - General Ecology **Credit Hours: 4**
- BIOL 312 - Microbiology **Credit Hours: 4**

- BIOL 375 - Molecular Biology **Credit Hours: 4**
- CHEM 213 - Organic Chemistry I **Credit Hours: 4**
- CHEM 214 - Organic Chemistry II **Credit Hours: 4**
- CHEM 235 - Environmental Chemistry **Credit Hours: 4**
- CHEM 335 - Analytical Chemistry **Credit Hours: 4**
- EVSC 421 - Topics in Environmental Science **Credit Hours: 1**
- GEOL 311 - Paleontology **Credit Hours: 3**

## B Group

*(Select at least 12 hours)*

- BUSI 221 - Organizational Management **Credit Hours: 3**
- ECON 333 - Intermediate Microeconomic Theory **Credit Hours: 3**
- PHIL 203 - Introduction to Ethics **Credit Hours: 3**
- PHIL 331 - Environmental Ethics **Credit Hours: 3**
- RELG 393 - Global Issues and Values **Credit Hours: 3**
- SOCI 370 - Environmental Sociology **Credit Hours: 3**

## Criminal Justice Major

### Major Requirements: (36 Hours)

(18 Hours)

- CRMJ 101 - Introduction to Criminal Justice **Credit Hours: 3**
- CRMJ 230 - American Law Enforcement **Credit Hours: 3**
- CRMJ 250 - American Courts **Credit Hours: 3**
- CRMJ 270 - American Corrections **Credit Hours: 3**
- CRMJ 240 - Introduction to Research Methods **Credit Hours: 3**
- or
- POLS 240 - Introduction to Research Methods **Credit Hours: 3**
- CRMJ 490 - Senior Seminar **Credit Hours: 3**
- or
- POLS 490 - Senior Seminar **Credit Hours: 3**

### Electives:

(18 hours, at least nine of which must be from CRMJ. No more than six hours may come from the following)

- IDIS 300 - Internship **Credit Hours: 1-6**
- POLS 317 - Constitutional Law II: Civil Rights and Liberties **Credit Hours: 3**
- POLS 321 - Public Administration **Credit Hours: 3**
- POLS 322 - Public Policy **Credit Hours: 3**
- POLS 324 - Urban Politics **Credit Hours: 3**
- PSYC 290 - Theories of Personality **Credit Hours: 3**
- PSYC 308 - Adolescence and Youth **Credit Hours: 3**



- PSYC 363 - Abnormal Psychology **Credit Hours: 3**
- POLS 377 - Hate Crimes **Credit Hours: 3**
- SOCI 216 - Social Problems in Contemporary America **Credit Hours: 3**
- SOCI 301 - American Society: Class and Culture **Credit Hours: 3**
- SOCI 320 - Racial and Cultural Minorities **Credit Hours: 3**

## Digital Media Design Major

Major Requirements: (42 Hours)

Digital Media Design Core Requirements: (30 Hours)

- ART 170 - Graphic Design I **Credit Hours: 3**
- BUSI 241 - Marketing **Credit Hours: 3**
- CPSC 100 - Introduction to Computer Science **Credit Hours: 3**
- DMD 398 - Directed Design Project **Credit Hours: 3**
- DMD 399 - Internship **Credit Hours: 3**
- DMD 400 - Principles of Interactive Design **Credit Hours: 3**
- DMD 495 - Seminar **Credit Hours: 3**
- MEDIA 150 - Introduction to Convergent Media **Credit Hours: 3**
- MEDIA 210 - Media Literacy **Credit Hours: 3**
- MEDIA 300 - Visual Communication **Credit Hours: 3**

Specialization Areas: (12 Hours) Choose ONE Group

Art:

- ART 112 - Drawing I **Credit Hours: 3**
- ART 151 - Introduction to Art **Credit Hours: 3**
- ART 270 - Graphic Design II **Credit Hours: 3**
- ART 352 - Art History III **Credit Hours: 3**

Business:

- BUSI 221 - Organizational Management **Credit Hours: 3**
- BUSI 417 - Advertising **Credit Hours: 3**
- BUSI 419 - Consumer Behavior **Credit Hours: 3**
- BUSI 422 - Marketing Research **Credit Hours: 3**

Computer Science:

- CPSC 111 - Computer Science I **Credit Hours: 3**
- CPSC 211 - Computer Science II **Credit Hours: 3**
- CPSC 345 - Mobile Application Development **Credit Hours: 3**
- CPSC 365 - Web Applications and Database Management Systems **Credit Hours: 3**

## Media:

- COMM 360 - Research Methods **Credit Hours: 3**
- MEDIA 240 - Broadcast Writing and Reporting **Credit Hours: 3**
- MEDIA 308 - Single Camera Video Production and Editing **Credit Hours: 3**
- MEDIA 365 - Audio Production **Credit Hours: 3**

## Theatre:

- THEA 245 - Technical Production **Credit Hours: 3**
- THEA 265 - Design I: Explorations in Theatre Design **Credit Hours: 3**
- THEA 351 - World Theatre History **Credit Hours: 3**
- THEA 365 - Design II: Intermediate Studies in Theatre Design **Credit Hours: 3**

## Early Childhood Education Major

Early Childhood Education Major prepares individuals to teach children in grades pre-kindergarten through 5.

## Major Requirements:

- EDUC 110 - Introduction to Education **Credit Hours: 1**
- EDUC 112 - Educational Implications of Diversity **Credit Hours: 3**
- EDUC 215 - Educational Psychology **Credit Hours: 3**
- EDUC 220 - Mathematics Content for Early Childhood and Intervention Specialist Teachers **Credit Hours: 3**
- EDUC 309 - Early Childhood Education and Curriculum **Credit Hours: 3**
- EDUC 315 - The Arts in Early Childhood **Credit Hours: 3**
- EDUC 316 - Children's Literature **Credit Hours: 3**
- EDUC 330 - Serving Individuals with Exceptionalities **Credit Hours: 3**
- EDUC 334 - Family-Centered Practices **Credit Hours: 3**
- EDUC 335 - Educational Technology **Credit Hours: 3**
- EDUC 341 - Assessment in Education **Credit Hours: 3**
- EDUC 362 - Integrating Language Arts and Social Studies in Early Childhood **Credit Hours: 3**
- EDUC 366 - Mathematics in Early Childhood Education **Credit Hours: 3**
- EDUC 367 - Science in Early Primary Education **Credit Hours: 3**
- EDUC 368 - Integrated Sciences for Early Childhood Instruction Grades 4-5 **Credit Hours: 3**
- EDUC 370 - Phonics and the Process of Reading **Credit Hours: 3**
- EDUC 371 - Emergent through Adolescent Literacy **Credit Hours: 3**
- EDUC 382 - Social Studies Methods for Middle Childhood Educators **Credit Hours: 3**
- EDUC 412 - Reading and Writing for Information **Credit Hours: 3**
- EDUC 414 - Reading Assessment and Intervention **Credit Hours: 3**
- EDUC 418 - Professional Practices for Early Childhood **Credit Hours: 2**
- EDUC 419 - Co-teaching and Collaboration in Education **Credit Hours: 2**
- EDUC 420 - Proactive Approaches to Classroom Management and Support **Credit Hours: 2**
- EDUC 449 - Student Teaching in Early Childhood **Credit Hours: 9**
- EDUC 461 - Student Teaching Seminar **Credit Hours: 1**

- PSYC 220 - Preschool Practicum **Credit Hours: 1** (preschool)
- SOCI 101 - The Sociological Perspective **Credit Hours: 3** \*

## Notes

\*SOCI 101 not required for transfer module student.

## Earth Science Major

### Earth Science Major Requirements: (25-26 Hours in Geology)

- GEOL 101 - Introduction to Geology **Credit Hours: 4**  
or
- GEOL 110 - Environmental Geology **Credit Hours: 4**
- GEOL 104 - Earth History **Credit Hours: 4**
- GEOL 200 - Oceanography **Credit Hours: 3**
- GEOL 220 - Landform Evolution **Credit Hours: 3**
- GEOL 301 - Mineralogy **Credit Hours: 4**
- GEOL 302 - Igneous and Metamorphic Petrology **Credit Hours: 3**
- GEOL 495 - Literature Seminar **Credit Hours: 2**
- CHEM 105 - Issues in the Chemical Sciences **Credit Hours: 4**  
or
- CHEM 111 - General Chemistry I **Credit Hours: 4**
- GEOG 321 - Weather and Climate **Credit Hours: 3**
- PHEN 101 - Conceptual Physics **Credit Hours: 4**  
or
- PHEN 115 - Introductory Physics I **Credit Hours: 4**  
or
- PHEN 121 - Classical Physics I **Credit Hours: 4**
- PHEN 150 - Introduction to Astronomy **Credit Hours: 4**

### Select Three From:

- GEOL 303 - Sedimentary Petrology **Credit Hours: 3**
- GEOL 311 - Paleontology **Credit Hours: 3**
- GEOL 313 - Structural Geology **Credit Hours: 3**
- GEOL 322 - Sedimentology and Stratigraphy **Credit Hours: 3**  
or
- GEOG 310 - Introduction to Geographic Information Systems **Credit Hours: 3**

### Select One From:

- GEOL 295 - Research Experience **Credit Hours: 1-3**
- GEOL 496 - Senior Research **Credit Hours: 3**

Select One From:

- MATH 170 - Applied College Algebra **Credit Hours: 3**
- MATH 180 - Precalculus **Credit Hours: 4**
- MATH 190 - Calculus I **Credit Hours: 4**

## **Economics Major**

Major Requirements: (36 Hours)

- ECON 215 - Principles of Microeconomics **Credit Hours: 3**
- ECON 216 - Principles of Macroeconomics **Credit Hours: 3**
- ECON 311 - Money and Banking **Credit Hours: 3**
- ECON 333 - Intermediate Microeconomic Theory **Credit Hours: 3**
- ECON 495 - Seminar **Credit Hours: 3**
- ACCT 201 - Financial Accounting **Credit Hours: 3**
- BUSI 325 - Statistics **Credit Hours: 3**

Electives:

- two 300- or 400-level ECON courses and three additional ACCT, BUSI, or ECON courses

## **English Major**

English Major Requirements: (30 Hours Not Including 121)

- ENGL 231 - British Literature to 1800 **Credit Hours: 3**  
or
- ENGL 232 - British Literature after 1800 **Credit Hours: 3**
- ENGL 233 - American Literature to 1865 **Credit Hours: 3**  
or
- ENGL 234 - American Literature after 1865 **Credit Hours: 3**
- ENGL 320 - Principles of Literary Study **Credit Hours: 3**
- ENGL 495 - Seminar **Credit Hours: 3**
- 12 hours at 300-level or above

## **Environmental Science Major**

Major Requirements:

## Environmental Science Core Requirements: (41 hours)

- BIOL 106 - Contemporary Biologic Issues **Credit Hours: 4** (Environmental Science)  
or
- BIOL 111 - Organismal Biology I **Credit Hours: 3** And
- BIOL 107 - Biology Laboratory I **Credit Hours: 1**
- BIOL 112 - Organismal Biology II **Credit Hours: 3** And
- BIOL 108 - Biology Laboratory II **Credit Hours: 1**
  
- CHEM 111 - General Chemistry I **Credit Hours: 4**
- CHEM 112 - General Chemistry II **Credit Hours: 4**
- CHEM 235 - Environmental Chemistry **Credit Hours: 4**
- GEOL 101 - Introduction to Geology **Credit Hours: 4**  
or
- GEOL 110 - Environmental Geology **Credit Hours: 4**
  
- GEOL 104 - Earth History **Credit Hours: 4**
- PHEN 101 - Conceptual Physics **Credit Hours: 4**  
or
- PHEN 115 - Introductory Physics I **Credit Hours: 4**  
or
- PHEN 121 - Classical Physics I **Credit Hours: 4**
- EVSC 121 - Environmental Issues **Credit Hours: 1**
- EVSC 421 - Topics in Environmental Science **Credit Hours: 1**
- EVSC 422 - Advanced Internship in Environmental Science **Credit Hours: 4**  
or
- EVSC 428 - Environmental Science Senior Research **Credit Hours: 4**

### Select One From:

- MATH 140 - Practical Statistics **Credit Hours: 3**
- BUSI 325 - Statistics **Credit Hours: 3**
- PSYC 232 - Behavioral Statistics **Credit Hours: 3**

### Core Electives:

(Select a minimum of 2 courses from)

- CPSC 100 - Introduction to Computer Science **Credit Hours: 3**
- GEOG 111 - World Regional Geography **Credit Hours: 3**
- GEOG 310 - Introduction to Geographic Information Systems **Credit Hours: 3**
- GEOL 313 - Structural Geology **Credit Hours: 3**
- GEOL 322 - Sedimentology and Stratigraphy **Credit Hours: 3**
- MATH 190 - Calculus I **Credit Hours: 4**
- MATH 230 - Linear Algebra and Vectors **Credit Hours: 3**
- MATH 350 - Numerical Analysis **Credit Hours: 3**
- PHEN 116 - Introductory Physics II **Credit Hours: 4**  
or

- PHEN 122 - Classical Physics II **Credit Hours: 4**

## Any one course from

Any one course from biology, chemistry, or geoscience track which does not already fulfill a major requirement.

- BIOL 226 - Introduction to Cell and Molecular Biology **Credit Hours: 3**
- BIOL 232 - Vertebrate Natural History **Credit Hours: 4**
- BIOL 306 - Genetics **Credit Hours: 4**
- BIOL 308 - General Ecology **Credit Hours: 4**
- BIOL 312 - Microbiology **Credit Hours: 4**
- BIOL 375 - Molecular Biology **Credit Hours: 4**
- CHEM 213 - Organic Chemistry I **Credit Hours: 4**
- CHEM 214 - Organic Chemistry II **Credit Hours: 4**
- CHEM 315 - Physical Chemistry I **Credit Hours: 4**
- CHEM 335 - Analytical Chemistry **Credit Hours: 4**
- CVSC 331 - Conservation Biology **Credit Hours: 4**
- GEOG 321 - Weather and Climate **Credit Hours: 3**
- GEOL 200 - Oceanography **Credit Hours: 3**
- GEOL 220 - Landform Evolution **Credit Hours: 3**
- GEOL 301 - Mineralogy **Credit Hours: 4**
- GEOL 302 - Igneous and Metamorphic Petrology **Credit Hours: 3**
- MATH 200 - Calculus II **Credit Hours: 4**

## Complete Requirements for at Least One Track:

- Biology Track
- Chemistry Track
- Geoscience Track
- Social Science Track

## Exercise Science Major

### Major Requirements:

- HLSC 110 - Medical Terminology I **Credit Hours: 1**
- HLSC 111 - Medical Terminology II **Credit Hours: 1**
- EXSC 120 - Introduction to Exercise Science **Credit Hours: 3**
- EXSC 140 - Prevention & Care of Orthopedic Injuries **Credit Hours: 3**
- EXSC 210 - First Aid and CPR **Credit Hours: 3**
- EXSC 315 - Electrocardiography (ECG) Analysis **Credit Hours: 1**
- EXSC 336 - Principles of Strength and Conditioning **Credit Hours: 3**
- EXSC 337 - Exercise Testing and Prescription **Credit Hours: 3**
- EXSC 338 - Kinesiology **Credit Hours: 3**
- EXSC 349 - Advanced Exercise Physiology **Credit Hours: 3**
- EXSC 380 - Pharmacology for the Exercise Professional **Credit Hours: 3**

- EXSC 470 - Organization and Administration **Credit Hours: 3**
- EXSC 490 - Research Methods **Credit Hours: 3**
- EXSC 495 - Senior Seminar **Credit Hours: 3**
- NUTR 131 - Introduction to Nutrition **Credit Hours: 3**
- NUTR 332 - Sport Nutrition and Supplementation **Credit Hours: 3**
- BIOL 121 - Anatomy & Physiology I **Credit Hours: 4**
- BIOL 122 - Anatomy & Physiology II **Credit Hours: 4**
- CHEM 111 - General Chemistry I **Credit Hours: 4**

## Electives:

12 credits from the following list

- EXSC 170 - Orthopedic Anatomy **Credit Hours: 3**
- EXSC 250 - Cultural Competency in Healthcare **Credit Hours: 3**
- EXSC 260 - Rehabilitation Techniques in Exercise **Credit Hours: 3**
- EXSC 333 - Motor Learning and Performance **Credit Hours: 3**
- EXSC 370 - General Medical Conditions **Credit Hours: 3**
- EXSC 375 - Therapeutic Modalities **Credit Hours: 3**
- HLSC 308 - Community Health **Credit Hours: 3**

## General Engineering Major

### Major Requirements: (88 Hours)

- PHEN 110 - Introduction to Physics and Engineering **Credit Hours: 2**
- PHEN 111 - Career Development in Physics and Engineering **Credit Hours: 1**
- PHEN 121 - Classical Physics I **Credit Hours: 4**
- PHEN 122 - Classical Physics II **Credit Hours: 4**
- PHEN 203 - Modern Physics **Credit Hours: 4**
- PHEN 210 - Statics **Credit Hours: 4**
- PHEN 211 - Dynamics **Credit Hours: 3**
- PHEN 235 - Electrical Circuit Analysis and Design **Credit Hours: 4**
- PHEN 300 - Material Science **Credit Hours: 4**
- PHEN 310 - Optics **Credit Hours: 4**
- PHEN 320 - Thermodynamics **Credit Hours: 4**
- PHEN 330 - Principles of Design **Credit Hours: 3**
- PHEN 370 - Electromagnetics **Credit Hours: 3**
- PHEN 405 - Signals and Systems **Credit Hours: 3**
- PHEN 410 - Measurements **Credit Hours: 3**
- PHEN 415 - Control Systems **Credit Hours: 3**
- PHEN 420 - Fluid Mechanics **Credit Hours: 4**
- PHEN 435 - Engineering Economics, Ethics, and Society **Credit Hours: 3**
- PHEN 490 - Introduction to General Engineering Senior Project **Credit Hours: 1**
- PHEN 495 - General Engineering Senior Project **Credit Hours: 3**
- CHEM 111 - General Chemistry I **Credit Hours: 4**
- CPSC 100 - Introduction to Computer Science **Credit Hours: 3**

- MATH 190 - Calculus I **Credit Hours: 4**
- MATH 200 - Calculus II **Credit Hours: 4**
- MATH 230 - Linear Algebra and Vectors **Credit Hours: 3**
- MATH 310 - Calculus III **Credit Hours: 3**
- MATH 320 - Differential Equations **Credit Hours: 3** (automatic Math minor)
- Students must take the Fundamentals of Engineering Exam in the last semester of their senior year.

## **Geology, BA Major**

### **Major Requirements: (29 Hours in Geology)**

- GEOL 101 - Introduction to Geology **Credit Hours: 4**  
or
- GEOL 110 - Environmental Geology **Credit Hours: 4**
  
- GEOL 104 - Earth History **Credit Hours: 4**
- GEOL 301 - Mineralogy **Credit Hours: 4**
- GEOL 302 - Igneous and Metamorphic Petrology **Credit Hours: 3**
- GEOL 303 - Sedimentary Petrology **Credit Hours: 3**
- GEOL 311 - Paleontology **Credit Hours: 3**
- GEOL 313 - Structural Geology **Credit Hours: 3**
- GEOL 322 - Sedimentology and Stratigraphy **Credit Hours: 3**
- GEOL 495 - Literature Seminar **Credit Hours: 2**
- CHEM 111 - General Chemistry I **Credit Hours: 4**
- GEOG 310 - Introduction to Geographic Information Systems **Credit Hours: 3**
  
- MATH 170 - Applied College Algebra **Credit Hours: 3**  
or
- MATH 180 - Precalculus **Credit Hours: 4**
  
- PHEN 101 - Conceptual Physics **Credit Hours: 4**  
or
- PHEN 115 - Introductory Physics I **Credit Hours: 4**

### **Two Courses from the Following List:**

- ECON 215 - Principles of Microeconomics **Credit Hours: 3**
- HIST 385 - American Environmental History **Credit Hours: 3**
- PHIL 331 - Environmental Ethics **Credit Hours: 3**
- POLS 321 - Public Administration **Credit Hours: 3**
- POLS 322 - Public Policy **Credit Hours: 3**
- POLS 323 - Administrative Law **Credit Hours: 3**
- RELG 393 - Global Issues and Values **Credit Hours: 3**
- SOCI 370 - Environmental Sociology **Credit Hours: 3**

## **Geology, BS Major**



## Geology Major Requirements: (35 Hours in Geology)

- GEOL 101 - Introduction to Geology **Credit Hours: 4**  
or
- GEOL 110 - Environmental Geology **Credit Hours: 4**
  
- GEOL 104 - Earth History **Credit Hours: 4**
- GEOL 301 - Mineralogy **Credit Hours: 4**
- GEOL 302 - Igneous and Metamorphic Petrology **Credit Hours: 3**
- GEOL 303 - Sedimentary Petrology **Credit Hours: 3**
- GEOL 313 - Structural Geology **Credit Hours: 3**
- GEOL 322 - Sedimentology and Stratigraphy **Credit Hours: 3**
- GEOL 495 - Literature Seminar **Credit Hours: 2**
- GEOL 496 - Senior Research **Credit Hours: 3**
- CHEM 111 - General Chemistry I **Credit Hours: 4**
- CHEM 112 - General Chemistry II **Credit Hours: 4**
- GEOG 310 - Introduction to Geographic Information Systems **Credit Hours: 3**
  
- MATH 170 - Applied College Algebra **Credit Hours: 3**  
or
- MATH 180 - Precalculus **Credit Hours: 4**  
or
- MATH 190 - Calculus I **Credit Hours: 4**

## Two From Among

- GEOL 200 - Oceanography **Credit Hours: 3**
- GEOL 220 - Landform Evolution **Credit Hours: 3**
- GEOL 311 - Paleontology **Credit Hours: 3**

## Physics Requirement

Take one group: PHEN 115/PHEN 116 or PHEN 121/122

- PHEN 115 - Introductory Physics I **Credit Hours: 4**  
and
- PHEN 116 - Introductory Physics II **Credit Hours: 4**  
or
- PHEN 121 - Classical Physics I **Credit Hours: 4**  
and
- PHEN 122 - Classical Physics II **Credit Hours: 4**

A Six Credit Summer Field Geology Course (Approved by the Department)

Recommended for Graduate School:

Calculus and 2 courses in each of physics and engineering (PHEN), biology (BIOL), world languages (FREN, GERM, SPAN).

## **Health Administration Major**

### **Major Requirements:**

#### **Health Administration Core Requirements:**

- HLSC 110 - Medical Terminology I **Credit Hours: 1**
- HLSC 111 - Medical Terminology II **Credit Hours: 1**
- HLSC 201 - Introduction to Health Administration **Credit Hours: 3**
- HLSC 307 - Health Communication and Promotion **Credit Hours: 3**
- HLSC 315 - Public Health and Epidemiology **Credit Hours: 3**
- HLSC 322 - Health Policy **Credit Hours: 3**
- HLSC 326 - Health Care Finance **Credit Hours: 3**
- HLSC 395 - Professional Seminar **Credit Hours: 1**
- HLSC 396 - Health Administration Internship **Credit Hours: 3-6**
- HLSC 497 - Seminar in Health Administration **Credit Hours: 2**

#### **Business Core Competency:**

- BUSI 221 - Organizational Management **Credit Hours: 3**
- BUSI 415 - Human Resource Management **Credit Hours: 3**

#### **Electives:**

Choose at least one course from each category

#### **Business/management:**

- ACCT 201 - Financial Accounting **Credit Hours: 3**
- ACCT 202 - Managerial Accounting **Credit Hours: 3**
- BUSI 241 - Marketing **Credit Hours: 3**
- BUSI 318 - Managerial Finance **Credit Hours: 3**
- BUSI 360 - Business Law **Credit Hours: 3**
- BUSI 413 - Software Applications for Business **Credit Hours: 3**
- BUSI 420 - Management Information Systems **Credit Hours: 3**
- POLS 321 - Public Administration **Credit Hours: 3**
- POLS 325 - Public Sector Human Resource Management **Credit Hours: 3**

#### **Ethics:**

- BUSI 414 - Business Ethics **Credit Hours: 3**
- PHIL 305 - Biomedical Ethics **Credit Hours: 3**

## Statistics:

- BUSI 325 - Statistics **Credit Hours: 3**
- HLSC 304 - Statistics for the Health Sciences **Credit Hours: 3**
- PSYC 231 - Applied Statistics **Credit Hours: 3**
- PSYC 232 - Behavioral Statistics **Credit Hours: 3**

## Health and Fitness Major

### Major Requirements: (32 Hours)

- EXSC 131 - Human Structure and Function **Credit Hours: 4**
- EXSC 249 - Exercise Physiology **Credit Hours: 3**
- EXSC 336 - Principles of Strength and Conditioning **Credit Hours: 3**
- EXSC 337 - Exercise Testing and Prescription **Credit Hours: 3**
- EXSC 498 - Seminar in Health and Fitness **Credit Hours: 3**
- HLSC 110 - Medical Terminology I **Credit Hours: 1**
- NUTR 131 - Introduction to Nutrition **Credit Hours: 3**

## Electives:

12 hours chosen from the following

- EXSC 333 - Motor Learning and Performance **Credit Hours: 3**
- EXSC 338 - Kinesiology **Credit Hours: 3**
- EXSC 349 - Advanced Exercise Physiology **Credit Hours: 3**
- HLSC 307 - Health Communication and Promotion **Credit Hours: 3**
- HLSC 308 - Community Health **Credit Hours: 3**
- HLSC 345 - Personal Health **Credit Hours: 3**
- NUTR 332 - Sport Nutrition and Supplementation **Credit Hours: 3**
- SPST 203 - Foundations of Athletic Skill **Credit Hours: 3**

## Health Education Major

### Health Education Major Requirements: (32 Hours)

- BIOL 106 - Contemporary Biologic Issues **Credit Hours: 4** (Genetic Frontiers and Biotechnology, Human Biology, or Human Diseases)
- EXSC 131 - Human Structure and Function **Credit Hours: 4**
- EXSC 210 - First Aid and CPR **Credit Hours: 3**
- EXSC 249 - Exercise Physiology **Credit Hours: 3**
- HLSC 308 - Community Health **Credit Hours: 3**
- HLSC 345 - Personal Health **Credit Hours: 3**
- HLTH 400 - Health Curriculum, Methods, and Materials **Credit Hours: 3**
- NUTR 131 - Introduction to Nutrition **Credit Hours: 3**

- PE 470 - Administration, Organization, and Supervision of Health, Physical Education and Sports Programs **Credit Hours: 3**

## **Health Science Major (MAP)**

**The Health Science major is designed for allied health professionals with an Associate of Science (AS) degree who wish to obtain a Bachelor of Science (BS) degree in preparation for attending a science-based graduate program.**

The major focuses primarily on the physical and natural sciences. Although students from a variety of allied health backgrounds select this major, most are preparing to attend graduate programs in Physician Assistant, Pathologist Assistant, Radiologist Assistant, Master in Occupational Therapy or a Doctorate in Physical Therapy

**Major Requirements: (30 Semester Hours)**

**Health Science Core Requirements: (12 Credit Hours)**

- HLSC 301 - The American Health Care System **Credit Hours: 3**
- HLSC 304 - Statistics for the Health Sciences **Credit Hours: 3**
- HLSC 307 - Health Communication and Promotion **Credit Hours: 3**
- HLSC 495 - Seminar in Health Science **Credit Hours: 3**

**Foundational Core Requirements: (9 Credit Hours)**

- HLSC 305 - Health Informatics **Credit Hours: 3**
- BIOL 346 - Pathophysiology **Credit Hours: 3**
- BIOL 376 - Pathophysiology II **Credit Hours: 3**

**Health Science Electives: (9 Credit Hours)**

**Choose Four of the Following:**

- BIOL 305 - Human Genetics **Credit Hours: 3**
- EXSC 333 - Motor Learning and Performance **Credit Hours: 3**
- EXSC 336 - Principles of Strength and Conditioning **Credit Hours: 3**
- HLSC 330 - The Human Body: Structure and Function **Credit Hours: 3**
- HLSC 331 - Nutrition and Health **Credit Hours: 3**
- PSYC 363 - Abnormal Psychology **Credit Hours: 3**
- HLSC 406 - Legal Issues in Healthcare **Credit Hours: 3**

## Customize Your Curriculum Plan

MAP majors are designed to accommodate the demands of your career and personal life. Most courses are offered multiple times per year within four 10-week terms. This allows you to:

- **Adjust your course load:** take only 1 or up to 4 courses each term
- **Choose the pace at which you will complete your program:** take courses in just one term each year, or in all 4
- **Customized dual majors and or/minors:** Your Health-Related Program Advisor will help you create a curriculum plan to meet your career goals

For additional information, contact Jennifer Baird, Allied Health Programs Advisor, at [jbaird@muskingum.edu](mailto:jbaird@muskingum.edu) or 740-826-6151

For a complete listing of MAP requirements, policies and procedures please refer to the Muskingum Adult Program Guidebook(pdf).

## Healthcare Management Major (MAP)

**The Healthcare Management major is designed for students with an allied health background who hold an associate of science or Associate of Business (AB) degree who wish to obtain a Bachelor of Science (BS) degree to expand their employment options and work in healthcare management.**

This major includes content that will equip you to understand and manage services and reimbursement sources affected by CMS, the Affordable Care Act, informatics and emerging areas of practice in healthcare. Professionals from many clinical backgrounds often select this major including radiology, medical lab, occupational therapy, physical therapy, health information management, respiratory, sonography, paramedic, and business. (See Career Pathway visuals below)

Graduates from this major often continue on and do graduate work in the Muskingum Master of Information, Strategy, Systems and Technology Degree (MISST) Program.

**Major Requirements: (30 Semester Hours)**

**Healthcare Management Core Requirements: (12 Credit Hours)**

- HLSC 301 - The American Health Care System **Credit Hours: 3**
- HLSC 307 - Health Communication and Promotion **Credit Hours: 3**
- HLSC 495 - Seminar in Health Science **Credit Hours: 3**
- HLSC 305 - Health Informatics **Credit Hours: 3**

**Foundational Core Requirements: (9 Credit Hours)**

- HLSC 406 - Legal Issues in Healthcare **Credit Hours: 3**
- HLSC 326 - Health Care Finance **Credit Hours: 3**
- HLSC 322 - Health Policy **Credit Hours: 3**

## Healthcare Management Electives: (9 Credit Hours)

Choose Three of the Following:

- BUSI 321 - Management Techniques **Credit Hours: 3**
- BUSI 360 - Business Law **Credit Hours: 3**
- BUSI 415 - Human Resource Management **Credit Hours: 3**
- BUSI 420 - Management Information Systems **Credit Hours: 3**
- SPST 441 - Sports Management **Credit Hours: 3**

## Customize Your Curriculum Plan

MAP majors are designed to accommodate the demands of your career and personal life. Most courses are offered multiple times per year within four 10-week terms. This allows you to:

Adjust your course load: take only 1 or up to 4 courses each term

Choose the pace at which you will complete your program: take courses in just one term each year, or in all 4

Customized dual majors and or/minors: Jennifer Baird, your Allied Health Programs Advisor, will help you create a curriculum plan to meet your career goals

For additional information, contact Jennifer Baird, Allied Health Programs Advisor, at [jbaird@muskingum.edu](mailto:jbaird@muskingum.edu) or 740-826-6151

For a complete listing of MAP requirements, policies and procedures please refer to the Muskingum Adult Program Guidebook(pdf).

## History Major

### History Major Requirements: (33 Hours)

- HIST 300 - Historical Research Methods **Credit Hours: 3**
- HIST 420 - Readings in History **Credit Hours: 3**
- HIST 460 - History Research Seminar **Credit Hours: 3**

### 9 Hours From

- HIST 105 - United States History to 1877 **Credit Hours: 3**
- HIST 106 - United States History since 1877 **Credit Hours: 3**
- HIST 110 - Pre-Modern World History **Credit Hours: 3**
- HIST 111 - The Emergence of the Modern World I **Credit Hours: 3**
- HIST 112 - The Emergence of the Modern World II **Credit Hours: 3**

## Electives: One Course From Each Grouping

### European

- HIST 310 - Ancient History **Credit Hours: 3**
- HIST 318 - Nineteenth Century Europe **Credit Hours: 3**
- HIST 320 - Twentieth Century Europe **Credit Hours: 3**
- HIST 322 - Gender and History **Credit Hours: 3**
- HIST 345 - The Second World War **Credit Hours: 3**

### World

- HIST 344 - East Asian History to 1800 **Credit Hours: 3**
- HIST 346 - Southeast Asian History **Credit Hours: 3**
- HIST 347 - Modern China **Credit Hours: 3**
- HIST 348 - The Western Impact on Modern Japan **Credit Hours: 3**
- HIST 350 - Colonial Latin America **Credit Hours: 3**
- HIST 351 - Modern Latin America **Credit Hours: 3**
- HIST 352 - Latin America Film and History **Credit Hours: 4**
- HIST 353 - History of Mexico, Pre-Columbian to Present **Credit Hours: 3**
- HIST 356 - History of Modern Africa **Credit Hours: 3**

### American

- HIST 372 - Empires of North America **Credit Hours: 3**
- HIST 374 - Ohio History **Credit Hours: 3**
- HIST 375 - Nearby History **Credit Hours: 4**
- HIST 376 - The American Revolution **Credit Hours: 3**
- HIST 378 - Gender and Sexuality in American History **Credit Hours: 3**
- HIST 379 - Youth in Modern America **Credit Hours: 3**
- HIST 380 - The History of the American Dream **Credit Hours: 3**
- HIST 381 - 1950s America **Credit Hours: 3**
- HIST 382 - 1960s and American Film **Credit Hours: 4**
- HIST 385 - American Environmental History **Credit Hours: 3**

Remainder of Required Hours From Departmental Offerings

## **Human Resource Management Major (MAP)**

Major Requirements: (48 Semester Hours)

Human Resource Management Core Requirements: (30 Credit Hours)

- ACCT 201 - Financial Accounting **Credit Hours: 3**
- ACCT 202 - Managerial Accounting **Credit Hours: 3**
- BUSI 321 - Management Techniques **Credit Hours: 3**
- BUSI 325 - Statistics **Credit Hours: 3**
- BUSI 360 - Business Law **Credit Hours: 3**
- BUSI 414 - Business Ethics **Credit Hours: 3**
- BUSI 420 - Management Information Systems **Credit Hours: 3**
- ECON 215 - Principles of Microeconomics **Credit Hours: 3**
- ECON 216 - Principles of Macroeconomics **Credit Hours: 3**

### Choose One of the Following:

- COMM 355 - Organizational Communication **Credit Hours: 3**
- ENGL 202 - Business Writing **Credit Hours: 3**

### Human Resource Management Requirements: (15 Credit Hours)

For a complete listing of MAP requirements, policies and procedures please refer to the Muskingum Adult Program Guidebook(pdf).

- BUSI 415 - Human Resource Management **Credit Hours: 3**
- BUSI 430 - Employment Law for Business **Credit Hours: 3**
- BUSI 431 - Topics in Human Resource Management **Credit Hours: 3**
- BUSI 450 - Strategic Management **Credit Hours: 3**
- BUSI 496 - Bachelor of Science Seminar in Business **Credit Hours: 3**

## Humanities Major

### Major Requirements:

Remaining courses from four of the six humanities division departments-art (ART), English (ENGL), world languages (GERM, FREN, SPAN), music (MUSC), religion and philosophy (RELG, PHIL), communication, media & theatre (COMM, DMD, JOURN, MEDIA, PBRL)

- 40 hours (exclusive of Gen Ed core and elected distribution courses)
- IDIS 275 - Arts and Humanities in Western Culture **Credit Hours: 3**
- IDIS 492 - Humanities Senior Seminar **Credit Hours: 3**

### Restriction:

- Maximum of 29 hours in any one discipline.

## Information Systems Major (MAP)



# **Technology is an integral and continual interactive part of our lives. Nearly all organizations rely on technology and information systems to conduct business and operate efficiently.**

According to the US Bureau of Labor Statistics the need for IS employees will grow by 20% in all employment areas from 2008 to 2018.

Our new major, Information Systems, combines business, computer science and informatics to prepare you for a successful career in the 21st century.

## **Major Requirements: (43 Credit Hours)**

For a complete listing of MAP requirements, policies and procedures please refer to the Muskingum Adult Program Guidebook(pdf).

### **Business Requirements: (15 Credit Hours)**

- ACCT 201 - Financial Accounting **Credit Hours: 3**
- BUSI 318 - Managerial Finance **Credit Hours: 3**
- BUSI 325 - Statistics **Credit Hours: 3**
- ECON 215 - Principles of Microeconomics **Credit Hours: 3**
- ECON 216 - Principles of Macroeconomics **Credit Hours: 3**

### **Computer Science Requirements: (9 Credit Hours)**

- CPSC 100 - Introduction to Computer Science **Credit Hours: 3**
- CPSC 111 - Computer Science I **Credit Hours: 3**
- CPSC 365 - Web Applications and Database Management Systems **Credit Hours: 3**

### **Informatics Requirements: (19 Credit Hours)**

- INFR 310 - Foundations of Information Systems **Credit Hours: 3**
- INFR 320 - IT Infrastructure **Credit Hours: 3**
- INFR 330 - Systems Analysis & Design **Credit Hours: 3**
- INFR 340 - Information Systems Project Management **Credit Hours: 3**
- INFR 410 - Enterprise Architecture **Credit Hours: 3**
- INFR 495 - IS Strategy, Management and Acquisition **Credit Hours: 4**

## **Journalism Major**

### **Major Requirements: (48 Hours)**

## Journalism Core Requirements: (39 Hours)

- COMM 325 - Communication Theory **Credit Hours: 3**
- JOURN 207 - Print Writing and Reporting **Credit Hours: 3**
- JOURN 208 - Editing and News Design **Credit Hours: 3**
- JOURN 219 - Photojournalism **Credit Hours: 3**
- JOURN 399 - Internship **Credit Hours: 3**
- JOURN 495 - Seminar **Credit Hours: 3**
- MEDIA 150 - Introduction to Convergent Media **Credit Hours: 3**
- MEDIA 210 - Media Literacy **Credit Hours: 3**
- MEDIA 240 - Broadcast Writing and Reporting **Credit Hours: 3**
- MEDIA 308 - Single Camera Video Production and Editing **Credit Hours: 3**
- MEDIA 365 - Audio Production **Credit Hours: 3**
- MEDIA 420 - Media Law **Credit Hours: 3**

## Electives (3 Hours):

One course selected from

- ENGL 316 - Public Relations Writing **Credit Hours: 3**
- ENGL 319 - Topics in Creative Nonfiction Writing **Credit Hours: 3**
- MEDIA 415 - Advanced Media Production **Credit Hours: 3**

## Practica Requirements (6 Hours)

- COMM 401 - Communication Practicum **Credit Hours: 1**
- COMM 301 - Communication Practicum **Credit Hours: 1**
- COMM 101 - Communication Practicum **Credit Hours: 1**
- COMM 201 - Communication Practicum **Credit Hours: 1**
- JOURN 101 - Journalism Practica **Credit Hours: 1**
- JOURN 201 - Journalism Practica **Credit Hours: 1**
- JOURN 301 - Journalism Practica **Credit Hours: 1**
- JOURN 401 - Journalism Practica **Credit Hours: 1**

## Marketing Major

### Major Requirements: (42 Hours)

- BUSI 221 - Organizational Management **Credit Hours: 3**
- BUSI 241 - Marketing **Credit Hours: 3**
- BUSI 318 - Managerial Finance **Credit Hours: 3**
- BUSI 495 - Seminar **Credit Hours: 3** (replace with an upper level elective if used for Business Management Major)
- ACCT 201 - Financial Accounting **Credit Hours: 3**
- ACCT 202 - Managerial Accounting **Credit Hours: 3**

- BUSI 325 - Statistics **Credit Hours: 3**  
or
- ECON 333 - Intermediate Microeconomic Theory **Credit Hours: 3**
- ECON 215 - Principles of Microeconomics **Credit Hours: 3**
- ECON 216 - Principles of Macroeconomics **Credit Hours: 3**
- ECON 311 - Money and Banking **Credit Hours: 3**

## Electives:

4 courses from

- BUSI 325 - Statistics **Credit Hours: 3** (if student also completes ECON 333 and does not count BUSI 325 as a Business Management elective), BUSI 411 , BUSI 416 , BUSI 417 , BUSI 419 , BUSI 422 , BUSI 423 , BUSI 424 (cannot count toward both business management and marketing major)
- COMM 335 - Small Group Communication **Credit Hours: 3**
- ENGL 316 - Public Relations Writing **Credit Hours: 3**
- HLSC 307 - Health Communication and Promotion **Credit Hours: 3**
- MEDIA 300 - Visual Communication **Credit Hours: 3**

## Notes

\*Adult undergraduate degree completers should refer to the MAP Guidebook

## Marketing Major (MAP)

### Major Requirements:

### Marketing Core Requirements: (30 Credit Hours)

- ACCT 201 - Financial Accounting **Credit Hours: 3**
- ACCT 202 - Managerial Accounting **Credit Hours: 3**
- BUSI 321 - Management Techniques **Credit Hours: 3**
- BUSI 325 - Statistics **Credit Hours: 3**
- BUSI 360 - Business Law **Credit Hours: 3**
- BUSI 414 - Business Ethics **Credit Hours: 3**
- BUSI 420 - Management Information Systems **Credit Hours: 3**
- ECON 215 - Principles of Microeconomics **Credit Hours: 3**
- ECON 216 - Principles of Macroeconomics **Credit Hours: 3**

### Choose One of the Following:

- COMM 355 - Organizational Communication **Credit Hours: 3**
- ENGL 202 - Business Writing **Credit Hours: 3**

## Marketing Requirements: (15 Credit Hours)

For a complete listing of MAP requirements, policies and procedures please refer to the Muskingum Adult Program Guidebook(pdf).

- BUSI 341 - Marketing Techniques **Credit Hours: 3**
- BUSI 416 - Professional Selling **Credit Hours: 3**
- BUSI 419 - Consumer Behavior **Credit Hours: 3**
- BUSI 440 - Marketing Analytics & Strategy **Credit Hours: 3**
- BUSI 496 - Bachelor of Science Seminar in Business **Credit Hours: 3**

## Mathematics Major

### Mathematics Major Requirements: (36 Hours)

- MATH 190 - Calculus I **Credit Hours: 4**
- MATH 200 - Calculus II **Credit Hours: 4**
- MATH 230 - Linear Algebra and Vectors **Credit Hours: 3**
- MATH 240 - Discrete Mathematics I **Credit Hours: 3**
- MATH 250 - Discrete Mathematics II **Credit Hours: 3**
- MATH 310 - Calculus III **Credit Hours: 3**
- MATH 330 - Algebraic Structures **Credit Hours: 4**
- MATH 410 - Analysis **Credit Hours: 4**
- MATH 495 - Mathematics Seminar **Credit Hours: 1**
- CPSC 100 - Introduction to Computer Science **Credit Hours: 3**
- 6 additional hours at the 300-level or above.

## Media Production Major

### Major Requirements: (42 Hours)

#### Media Production Core Requirements:

- MEDIA 150 - Introduction to Convergent Media **Credit Hours: 3**
- MEDIA 210 - Media Literacy **Credit Hours: 3**
- MEDIA 240 - Broadcast Writing and Reporting **Credit Hours: 3**
- MEDIA 308 - Single Camera Video Production and Editing **Credit Hours: 3**
- MEDIA 365 - Audio Production **Credit Hours: 3**
- MEDIA 399 - Internship **Credit Hours: 3**
- MEDIA 415 - Advanced Media Production **Credit Hours: 3**
- MEDIA 495 - Seminar **Credit Hours: 3**
- COMM 325 - Communication Theory **Credit Hours: 3**
- COMM 360 - Research Methods **Credit Hours: 3**
- COMM 101 - Communication Practicum **Credit Hours: 1** (6 times)
- COMM 201 - Communication Practicum **Credit Hours: 1** (6 times)

- COMM 301 - Communication Practicum **Credit Hours: 1** (6 times)
- COMM 401 - Communication Practicum **Credit Hours: 1** (6 times)
- ENGL 207 - Print Writing and Reporting **Credit Hours: 3**
- JOURN 219 - Photojournalism **Credit Hours: 3**
- or
- MEDIA 300 - Visual Communication **Credit Hours: 3**

## **Medical Laboratory Studies Major (MAP)**

**The Medical Laboratory Studies major is designed for already certified medical laboratory technicians with an Associate of Science (AS) degree in medical laboratory technology who wish to obtain a Bachelor of Science (BS) degree, in order to eventually qualify to sit for the MLS exam with the American Society of Clinical Pathologist (ASCP) using the route 2 pathway.**

This major incorporate a strong concentration of biology (6 credits) and chemistry (9 credits) courses. Often referred to as the Medical Laboratory Technician (MLT) to Medical Laboratory Scientist (MLS) Career Pathway. (See Career Pathway visual below) This is also a strong course of study for MLT's who plan to attend a science-based graduate programs in the areas of Medical Laboratory Sciences, Physician Assistant, or Pathologist Assistant.

**Major Requirements: (30 Semester Hours)**

**Medical Laboratory Studies Core Requirements: (12 Credit Hours)**

- HLSC 301 - The American Health Care System **Credit Hours: 3**
- HLSC 495 - Seminar in Health Science **Credit Hours: 3**
- HLSC 307 - Health Communication and Promotion **Credit Hours: 3**

**Choose one of the following:**

- HLSC 304 - Statistics for the Health Sciences **Credit Hours: 3**
- HLSC 305 - Health Informatics **Credit Hours: 3**

**Foundational Core Requirements: (9 Credit Hours)**

- BIOL 346 - Pathophysiology **Credit Hours: 3**
- HLSC 340 - Instrumental Clinical Chemistry **Credit Hours: 3**
- HLSC 341 - Applied Clinical Biochemistry I **Credit Hours: 3**

## Medical Laboratory Studies Electives: (9 Credit Hours)

Choose Three of the Following:

- BIOL 305 - Human Genetics **Credit Hours: 3**
- BIOL 376 - Pathophysiology II **Credit Hours: 3**
- HLSC 342 - Applied Clinical Biochemistry II **Credit Hours: 3**
- HLSC 331 - Nutrition and Health **Credit Hours: 3**
- HLSC 315 - Public Health and Epidemiology **Credit Hours: 3**
- HLSC 406 - Legal Issues in Healthcare **Credit Hours: 3**

## Customize Your Curriculum Plan

MAP majors are designed to accommodate the demands of your career and personal life. Most courses are offered multiple times per year within four 10-week terms. This allows you to:

- Adjust your course load: take only 1 or up to 4 courses each term
- Choose the pace at which you will complete your program: take courses in just one term each year, or in all 4
- Customized dual majors and or/minors: Your Health-Related Program Advisor will help you create a curriculum plan to meet your career goals

For additional information, contact Jennifer Baird, Allied Health Programs Advisor, at [jbaird@muskingum.edu](mailto:jbaird@muskingum.edu) or 740-826-6151

For a complete listing of MAP requirements, policies and procedures please refer to the Muskingum Adult Program Guidebook(pdf).

## Middle Childhood Education Major

Middle Childhood Education major prepares individuals to teach children grades four through nine in two of the following content areas: math, science, language arts and reading, and social studies. Students may select any combination of two of the four content areas.

Major Requirements:

Course Requirements Include:

- EDUC 110 - Introduction to Education **Credit Hours: 1**
- EDUC 112 - Educational Implications of Diversity **Credit Hours: 3**
- EDUC 215 - Educational Psychology **Credit Hours: 3**
- EDUC 312 - Developmentally Responsive Middle Schools **Credit Hours: 3**
- EDUC 330 - Serving Individuals with Exceptionalities **Credit Hours: 3**
- EDUC 335 - Educational Technology **Credit Hours: 3**
- EDUC 341 - Assessment in Education **Credit Hours: 3**
- EDUC 370 - Phonics and the Process of Reading **Credit Hours: 3**
- EDUC 372 - Reading Methods for Middle Childhood **Credit Hours: 3**
- EDUC 413 - Reading in the Content Areas **Credit Hours: 3**
- EDUC 414 - Reading Assessment and Intervention **Credit Hours: 3**

- EDUC 419 - Co-teaching and Collaboration in Education **Credit Hours: 2**
- EDUC 420 - Proactive Approaches to Classroom Management and Support **Credit Hours: 2**
- EDUC 450 - Middle Level Student Teaching **Credit Hours: 9**
- EDUC 461 - Student Teaching Seminar **Credit Hours: 1**
- EDUC 465 - Professional Practices in Middle Level Education **Credit Hours: 2**

Two of the following:

- EDUC 382 - Social Studies Methods for Middle Childhood Educators **Credit Hours: 3**
- EDUC 383 - Language Arts Methods for Middle Childhood Educators **Credit Hours: 3**
- EDUC 384 - Science Methods for Middle Childhood Educators **Credit Hours: 3**
- EDUC 385 - Math Methods for Middle Childhood Educators **Credit Hours: 3**

Two of the following approved concentration areas:

reading/language arts, mathematics, social studies, science. (Specific concentration course requirements are available in the education department office and contained in the Teacher Education Handbook.)

## **Molecular Biology Major**

Major Requirements: (70 hours)

- MBIO 211 - Topics in Molecular Biology **Credit Hours: 1**
- MBIO 411 - Topics in Molecular Biology **Credit Hours: 1**
- MBIO 417 - Molecular Biology Seminar **Credit Hours: 2**
- MBIO 418 - Research in Molecular Biology/Internship **Credit Hours: 4**
- BIOL 108 - Biology Laboratory II **Credit Hours: 1**
- BIOL 112 - Organismal Biology II **Credit Hours: 3**
- BIOL 226 - Introduction to Cell and Molecular Biology **Credit Hours: 3**
- BIOL 306 - Genetics **Credit Hours: 4**
- BIOL 312 - Microbiology **Credit Hours: 4**
- BIOL 375 - Molecular Biology **Credit Hours: 4**
- CHEM 111 - General Chemistry I **Credit Hours: 4**
- CHEM 112 - General Chemistry II **Credit Hours: 4**
- CHEM 213 - Organic Chemistry I **Credit Hours: 4**
- CHEM 214 - Organic Chemistry II **Credit Hours: 4**
- CHEM 315 - Physical Chemistry I **Credit Hours: 4**
- CHEM 418 - Biochemistry I **Credit Hours: 4**
- CPSC 100 - Introduction to Computer Science **Credit Hours: 3**
- MATH 190 - Calculus I **Credit Hours: 4**
- MATH 200 - Calculus II **Credit Hours: 4**
- PHEN 121 - Classical Physics I **Credit Hours: 4**
- PHEN 122 - Classical Physics II **Credit Hours: 4**

Strongly Recommended: BIOL 336, statistics and computer science courses

## **Music Education Major**

## Music Education Major Requirements: (76-77 Hours)

- MUSC 111 - Materials of Music I **Credit Hours: 4**
- MUSC 112 - Materials of Music II **Credit Hours: 4**
- MUSC 115 - Aural Skills I **Credit Hours: 1**
- MUSC 116 - Aural Skills II **Credit Hours: 1**
- MUSC 121 - Introduction to Music **Credit Hours: 3**
- MUSC 140 - Diction for Singing **Credit Hours: 1** (for students with a vocal concentration)
- MUSC 181 - Introduction to Music Education **Credit Hours: 2**
- MUSC 211 - Materials of Music III **Credit Hours: 4**
- MUSC 212 - Materials of Music IV **Credit Hours: 4**
- MUSC 215 - Aural Skills III **Credit Hours: 1**
- MUSC 216 - Aural Skills IV **Credit Hours: 1**
- MUSC 281 - Woodwind Methods and Pedagogy **Credit Hours: 2**
- MUSC 282 - String Methods and Pedagogy **Credit Hours: 2**
- MUSC 283 - Brass and Percussion Methods and Pedagogy **Credit Hours: 2**
- MUSC 284 - Voice Pedagogy and Practicum **Credit Hours: 2**
- MUSC 295 - Piano Proficiency **Credit Hours: 0**
- MUSC 310 - Excursions in World Music **Credit Hours: 3**
- MUSC 315 - Instrumentation **Credit Hours: 2**
- MUSC 321 - Western Music History I **Credit Hours: 3**
- MUSC 322 - Music History II **Credit Hours: 3**
- MUSC 371 - Conducting I **Credit Hours: 2**
- MUSC 372 - Conducting II **Credit Hours: 2**
- MUSC 382 - Music Education: Teaching General Music **Credit Hours: 2**
- MUSC 383 - Music Education: Teaching Vocal Music **Credit Hours: 2**
- MUSC 384 - Music Education: Teaching Instrumental Music **Credit Hours: 2**
- MUSC 401 - Senior Recital **Credit Hours: 0**
- MUSC 445 - Senior Seminar **Credit Hours: 1**
- MUSC 482 - Music Education: Professional Semester in Elementary Education **Credit Hours: 5**
- MUSC 483 - Music Education: Professional Semester in Secondary Education **Credit Hours: 5**
- EDUC 112 - Educational Implications of Diversity **Credit Hours: 3**
- EDUC 215 - Educational Psychology **Credit Hours: 3**
- EDUC 314 - Multi-Age Curriculum and Instruction **Credit Hours: 3**
- EDUC 330 - Serving Individuals with Exceptionalities **Credit Hours: 3**
- EDUC 335 - Educational Technology **Credit Hours: 3**
- EDUC 341 - Assessment in Education **Credit Hours: 3**
- EDUC 413 - Reading in the Content Areas **Credit Hours: 3**
- EDUC 419 - Co-teaching and Collaboration in Education **Credit Hours: 2**
- EDUC 420 - Proactive Approaches to Classroom Management and Support **Credit Hours: 2**
- EDUC 461 - Student Teaching Seminar **Credit Hours: 1**
- EDUC 466 - Professional Practices in Secondary Schools **Credit Hours: 2**

## 6 Semesters of the Appropriate Major Ensemble

6 semesters of the appropriate major ensemble and one semester in an ensemble of a medium dissimilar from the student's primary area of applied study



## 7 Hours of Applied Study in One Area

### 6 Semesters Of

- MUSC 100 - Performance Seminar **Credit Hours: 0**
- MUSC 300 - Performance Seminar **Credit Hours: 0**

### Junior Qualifying Exam

(assessed after 212)

## Music Major

### Major Requirements: (48-49 Hours)

- MUSC 111 - Materials of Music I **Credit Hours: 4**
- MUSC 112 - Materials of Music II **Credit Hours: 4**
- MUSC 115 - Aural Skills I **Credit Hours: 1**
- MUSC 116 - Aural Skills II **Credit Hours: 1**
- MUSC 140 - Diction for Singing **Credit Hours: 1** (for students with a vocal concentration)
- MUSC 121 - Introduction to Music **Credit Hours: 3**
- MUSC 211 - Materials of Music III **Credit Hours: 4**
- MUSC 212 - Materials of Music IV **Credit Hours: 4**
- MUSC 215 - Aural Skills III **Credit Hours: 1**
- MUSC 216 - Aural Skills IV **Credit Hours: 1**
- MUSC 295 - Piano Proficiency **Credit Hours: 0**
- MUSC 310 - Excursions in World Music **Credit Hours: 3**
- MUSC 321 - Western Music History I **Credit Hours: 3**
- MUSC 322 - Music History II **Credit Hours: 3**
- MUSC 371 - Conducting I **Credit Hours: 2**
- MUSC 445 - Senior Seminar **Credit Hours: 1**
  - 8 hours of applied study in one area
- 8 hours in the appropriate major ensemble
- MUSC 401 - Senior Recital **Credit Hours: 0**

### 6 semesters of

- MUSC 100 - Performance Seminar **Credit Hours: 0**
- MUSC 300 - Performance Seminar **Credit Hours: 0**

### Junior qualifying exam

(assessed after 212)

# Neuroscience Major

## Major Requirements: (57-59 Hours)

- NRSC 201 - Topics in Neuroscience **Credit Hours: 1** (taken 3 times)
- NRSC 305 - Cognitive Neuroscience **Credit Hours: 3**
- NRSC 308 - Neuroscience Practicum **Credit Hours: 1**
- NRSC 407 - Neuroscience Research I **Credit Hours: 3**
- NRSC 408 - Neuroscience Research II **Credit Hours: 2**
- NRSC 409 - Neuroscience Research III **Credit Hours: 2**
- BIOL 108 - Biology Laboratory II **Credit Hours: 1**
- BIOL 112 - Organismal Biology II **Credit Hours: 3**
- BIOL 226 - Introduction to Cell and Molecular Biology **Credit Hours: 3**
- BIOL 368 - Fundamental Neuroscience **Credit Hours: 4**
- CHEM 111 - General Chemistry I **Credit Hours: 4**
- CHEM 112 - General Chemistry II **Credit Hours: 4**
- PSYC 101 - Introduction to Psychology **Credit Hours: 3**
- PSYC 151 - General Experimental Psychology **Credit Hours: 4**
- PSYC 232 - Behavioral Statistics **Credit Hours: 3**
- PSYC 281 - Physiological Psychology **Credit Hours: 3**

## Three of the following courses:

- NRSC 386 - Neuropharmacology **Credit Hours: 4**
- PSYC 361 - Sensation and Perception **Credit Hours: 4**
- BIOL 336 - Cellular Physiology **Credit Hours: 4**
- BIOL 375 - Molecular Biology **Credit Hours: 4**

## Suggested electives:

- BIOL 213 - Functional Histology **Credit Hours: 4**
- BIOL 306 - Genetics **Credit Hours: 4**
- CHEM 213 - Organic Chemistry I **Credit Hours: 4**
- CHEM 214 - Organic Chemistry II **Credit Hours: 4**
- CHEM 418 - Biochemistry I **Credit Hours: 4**
- CPSC 100 - Introduction to Computer Science **Credit Hours: 3**  
or
- CPSC 111 - Computer Science I **Credit Hours: 3**
- MATH 190 - Calculus I **Credit Hours: 4**
- PHEN 101 - Conceptual Physics **Credit Hours: 4**
- PSYC 304 - Learning and Memory **Credit Hours: 3**
- PSYC 351 - Advanced Experimental Psychology **Credit Hours: 4**

# Nursing Major

## Major Requirements: (108 Hours)

### Required lower-level nursing courses: (19 Hours)

- NURS 125 - Foundations in Professional Practice I **Credit Hours: 1**
- NURS 126 - Foundations in Professional Practice II **Credit Hours: 1**
- NURS 226 - Health Assessment **Credit Hours: 3**
- NURS 227 - Fundamentals of Nursing Practice **Credit Hours: 4**
- NURS 230 - Pharmacology **Credit Hours: 3**
- NURS 251 - Introduction to Clinical Practice in Medical-Surgical Nursing **Credit Hours: 7**

### Required Upper-level Nursing Courses: (46 Hours)

- NURS 340 - Nursing Research **Credit Hours: 3**
- NURS 351 - Clinical Practice in Medical-Surgical Nursing **Credit Hours: 7**
- NURS 360 - Mental Health and Family Nursing **Credit Hours: 4**
- NURS 375 - Nursing Care of Parents, Newborns and Children **Credit Hours: 8**
- NURS 430 - Perspectives in Global Health and Nursing **Credit Hours: 3**
- NURS 451 - Nursing Care of Adults with Complex Health Problems **Credit Hours: 7**
- NURS 460 - Community Health Nursing **Credit Hours: 4**
- NURS 486 - Nursing Leadership and Management **Credit Hours: 3**
- NURS 487 - Nursing Senior Capstone: Preparation for Licensure and Practice **Credit Hours: 7**

### Required Support Courses: (43 Hours)

- BIOL 121 - Anatomy & Physiology I **Credit Hours: 4**
- BIOL 122 - Anatomy & Physiology II **Credit Hours: 4**
- BIOL 305 - Human Genetics **Credit Hours: 3**
- BIOL 312 - Microbiology **Credit Hours: 4**
- BIOL 346 - Pathophysiology **Credit Hours: 3**
- CHEM 108 - General, Organic, and Biological Chemistry **Credit Hours: 4**
- NUTR 231 - Nutrition Across the Lifespan **Credit Hours: 3**
- PHIL 305 - Biomedical Ethics **Credit Hours: 3**
- PSYC 101 - Introduction to Psychology **Credit Hours: 3**
- PSYC 208 - Lifespan Development **Credit Hours: 3**
- PSYC 231 - Applied Statistics **Credit Hours: 3**
- SOCI 101 - The Sociological Perspective **Credit Hours: 3**

### One of the following:

- EXSC 333 - Motor Learning and Performance **Credit Hours: 3**
- EXSC 336 - Principles of Strength and Conditioning **Credit Hours: 3**
- EXSC 337 - Exercise Testing and Prescription **Credit Hours: 3**
- HLSC 307 - Health Communication and Promotion **Credit Hours: 3**
- HLSC 308 - Community Health **Credit Hours: 3**

- HLSC 312 - Social Gerontology **Credit Hours: 3**
- HLSC 315 - Public Health and Epidemiology **Credit Hours: 3**
- HLSC 322 - Health Policy **Credit Hours: 3**
- HLSC 326 - Health Care Finance **Credit Hours: 3**
- HLSC 345 - Personal Health **Credit Hours: 3**
- HLSC 415 - Advanced Epidemiology **Credit Hours: 3**
- NUTR 332 - Sport Nutrition and Supplementation **Credit Hours: 3**

## **Occupational Science Major (MAP)**

**The Occupational Science major is designed primarily for already certified occupational therapy assistants (OTA's) who hold an Associate of Science (AS) degree and wish to obtain a Bachelor of Science (BS) degree in preparation for attending a Master of Occupational Therapy (MOT) or doctoral program in Occupational Therapy.**

Our program continues the occupation-based focus began in a comprehensive OTA program, and includes three OT specific content courses that will be taught by masters-trained and/or doctoral-trained occupational therapists. These foundational courses are supported by an array of holistic courses in psychology, anatomy and biological sciences, nutrition, wellness, informatics, statistics and communications.

**Major Requirements: (30 Semester Hours)**

**Occupational Science Core Requirements: (12 Credit Hours)**

- HLSC 301 - The American Health Care System **Credit Hours: 3**
- HLSC 304 - Statistics for the Health Sciences **Credit Hours: 3**
- HLSC 495 - Seminar in Health Science **Credit Hours: 3**

Choose one of the following:

- HLSC 305 - Health Informatics **Credit Hours: 3**
- HLSC 307 - Health Communication and Promotion **Credit Hours: 3**

**Foundational Core Requirements: (9 Credit Hours)**

- HLSC 351 - Occupational Science **Credit Hours: 3**
- HLSC 453 - Elder Cognitive Health & Wellness **Credit Hours: 3**

- HLSC 455 - Sensory Function Across the Lifespan **Credit Hours: 3**

## Occupational Science Electives: (9 Credit Hours)

Choose Three of the Following:

- BIOL 346 - Pathophysiology **Credit Hours: 3**
- PSYC 363 - Abnormal Psychology **Credit Hours: 3**
- PSYC 409 - Topics in Psychology **Credit Hours: 3**
- PSYC 430 - Psychology of Injury **Credit Hours: 3**
- HLSC 312 - Social Gerontology **Credit Hours: 3**
- HLSC 322 - Health Policy **Credit Hours: 3**
- HLSC 330 - The Human Body: Structure and Function **Credit Hours: 3**
- HLSC 331 - Nutrition and Health **Credit Hours: 3**

## Customize Your Curriculum Plan

MAP majors are designed to accommodate the demands of your career and personal life. Most courses are offered multiple times per year within four 10-week terms. This allows you to:

- Adjust your course load: take only 1 or up to 4 courses each term
- Choose the pace at which you will complete your program: take courses in just one term each year, or in all 4
- Customized dual majors and or/minors: Your Health-Related Program Advisor will help you create a curriculum plan to meet your career goals

For additional information, contact Jennifer Baird, Allied Health Programs Advisor, at [jbaird@muskingum.edu](mailto:jbaird@muskingum.edu) or 740-826-8470

For a complete listing of MAP requirements, policies and procedures please refer to the Muskingum Adult Program Guidebook(pdf).

## Philosophy Major

### Major Requirements: (31 Hours)

At least 12 credit hours among the following:

- PHIL 101 - Introduction to Western Philosophy **Credit Hours: 3**
- PHIL 202 - Logic and Critical Thinking **Credit Hours: 3**
- PHIL 325 - Western Philosophy: The Ancients **Credit Hours: 3**
- PHIL 327 - Western Philosophy: The Early Moderns **Credit Hours: 3**
- PHIL 350 - Later Modern Philosophy **Credit Hours: 3**
- PHIL 355 - Comparative Philosophy **Credit Hours: 3**

Required:

- PHIL 495 - Senior Seminar Research in Philosophy **Credit Hours: 1**

- PHIL 496 - Senior Seminar **Credit Hours: 3**

## 15 additional hours

15 additional hours of PHIL courses for a total of 31 hours in the major. These hours may include one of the following:

- RELG 253 - Ethics, Reason, and the Bible **Credit Hours: 3**
- RELG 260 - Introduction to Christian Theology **Credit Hours: 3**
- RELG 342 - Religions and Philosophies of Asia **Credit Hours: 3**
- RELG 393 - Global Issues and Values **Credit Hours: 3**

## Physical Education Major

### Physical Education Major Requirements (27 hours)

- EXSC 131 - Human Structure and Function **Credit Hours: 4**
- EXSC 249 - Exercise Physiology **Credit Hours: 3**
- EXSC 338 - Kinesiology **Credit Hours: 3**
- PE 341 - Principles of Physical Education, Evaluation and Measurements **Credit Hours: 3**
- PE 416 - Teaching Physical Education Activities **Credit Hours: 4**
- SPST 203 - Foundations of Athletic Skill **Credit Hours: 3**
- SPST 418 - Coaching Team Sports **Credit Hours: 3**

### Electives:

- Two hours of Physical Education (PE) above the 100-level

## Physics Education Major

### Physics Education Major Requirements: (102 Hours)

- PHEN 110 - Introduction to Physics and Engineering **Credit Hours: 2**
- PHEN 121 - Classical Physics I **Credit Hours: 4**
- PHEN 122 - Classical Physics II **Credit Hours: 4**
- PHEN 203 - Modern Physics **Credit Hours: 4**
- PHEN 210 - Statics **Credit Hours: 4**
- PHEN 235 - Electrical Circuit Analysis and Design **Credit Hours: 4**
- PHEN 310 - Optics **Credit Hours: 4**
- PHEN 492 - Introduction to Physics Education Senior Project **Credit Hours: 1**
- PHEN 497 - Physics Education Senior Project **Credit Hours: 3**
- CHEM 111 - General Chemistry I **Credit Hours: 4**
- CHEM 112 - General Chemistry II **Credit Hours: 4**
- CHEM 200 - Laboratory Safety **Credit Hours: 1**
- CPSC 100 - Introduction to Computer Science **Credit Hours: 3**
- EDUC 110 - Introduction to Education **Credit Hours: 1**

- EDUC 112 - Educational Implications of Diversity **Credit Hours: 3**
- EDUC 313 - Curriculum and Instruction for the Adolescent **Credit Hours: 3**
- EDUC 330 - Serving Individuals with Exceptionalities **Credit Hours: 3**
- EDUC 335 - Educational Technology **Credit Hours: 3**
- EDUC 341 - Assessment in Education **Credit Hours: 3**
- EDUC 394 - Integrated Science Methods for the Adolescent **Credit Hours: 3**
- EDUC 413 - Reading in the Content Areas **Credit Hours: 3**
- EDUC 419 - Co-teaching and Collaboration in Education **Credit Hours: 2**
- EDUC 420 - Proactive Approaches to Classroom Management and Support **Credit Hours: 2**
- EDUC 451 - Student Teaching in the Secondary School **Credit Hours: 9**
- EDUC 461 - Student Teaching Seminar **Credit Hours: 1**
- EDUC 466 - Professional Practices in Secondary Schools **Credit Hours: 2**
- MATH 190 - Calculus I **Credit Hours: 4**
- MATH 200 - Calculus II **Credit Hours: 4**
- MATH 230 - Linear Algebra and Vectors **Credit Hours: 3**
- MATH 310 - Calculus III **Credit Hours: 3**
- PSYC 101 - Introduction to Psychology **Credit Hours: 3**
- PSYC 308 - Adolescence and Youth **Credit Hours: 3**

## Physics Major

### Major Requirements (73 hours)

- PHEN 110 - Introduction to Physics and Engineering **Credit Hours: 2**
- PHEN 111 - Career Development in Physics and Engineering **Credit Hours: 1**
- PHEN 121 - Classical Physics I **Credit Hours: 4**
- PHEN 122 - Classical Physics II **Credit Hours: 4**
- PHEN 203 - Modern Physics **Credit Hours: 4**
- PHEN 210 - Statics **Credit Hours: 4**
- PHEN 211 - Dynamics **Credit Hours: 3**
- PHEN 310 - Optics **Credit Hours: 4**
- PHEN 320 - Thermodynamics **Credit Hours: 4**
- PHEN 340 - Theoretical Physics I **Credit Hours: 3**
- PHEN 370 - Electromagnetics **Credit Hours: 3**
- PHEN 430 - Theoretical Physics II **Credit Hours: 3**
- PHEN 491 - Introduction to Physics Senior Project **Credit Hours: 1**
- PHEN 496 - Physics Senior Project **Credit Hours: 3**
- CHEM 111 - General Chemistry I **Credit Hours: 4**
- CHEM 112 - General Chemistry II **Credit Hours: 4**
- CPSC 100 - Introduction to Computer Science **Credit Hours: 3**
- CPSC 111 - Computer Science I **Credit Hours: 3**
- MATH 190 - Calculus I **Credit Hours: 4**
- MATH 200 - Calculus II **Credit Hours: 4**
- MATH 230 - Linear Algebra and Vectors **Credit Hours: 3**
- MATH 310 - Calculus III **Credit Hours: 3**
- MATH 320 - Differential Equations **Credit Hours: 3** (automatic Math minor)

- Students must take the Educational Testing Service Major Field Test in Physics in the last semester of their senior year.

One of the following:

- MATH 340 - Mathematical Statistics **Credit Hours: 3**
- MATH 350 - Numerical Analysis **Credit Hours: 3**
- MATH 420 - Complex Analysis **Credit Hours: 3**

## **Political Science Major**

Major Requirements: (33 Hours)

Political Science Core Requirements: (15 Hours)

- POLS 111 - American Political Systems **Credit Hours: 3**
- CRMJ 240 - Introduction to Research Methods **Credit Hours: 3**  
or
- POLS 240 - Introduction to Research Methods **Credit Hours: 3**
- CRMJ 490 - Senior Seminar **Credit Hours: 3**  
or
- POLS 490 - Senior Seminar **Credit Hours: 3**

two courses from

- POLS 121 - Introduction to Public Administration and Policy **Credit Hours: 3**
- POLS 131 - Introduction to Comparative Politics **Credit Hours: 3**
- POLS 151 - Introduction to International Relations **Credit Hours: 3**

Distribution: (6 hours)

- one course from two of the following categories

American Government courses: POLS 310-319

- POLS 310 - US National Security **Credit Hours: 3**
- POLS 311 - Congress and the Presidency **Credit Hours: 3**
- POLS 312 - Constitutional Law Governmental Powers **Credit Hours: 3**
- POLS 314 - Political Communication **Credit Hours: 3**
- POLS 317 - Constitutional Law II: Civil Rights and Liberties **Credit Hours: 3**
- POLS 319 - Political Parties and Elections **Credit Hours: 3**

Public Administration/Policy courses: POLS 320-329



- POLS 321 - Public Administration **Credit Hours: 3**
- POLS 322 - Public Policy **Credit Hours: 3**
- POLS 323 - Administrative Law **Credit Hours: 3**
- POLS 324 - Urban Politics **Credit Hours: 3**
- POLS 325 - Public Sector Human Resource Management **Credit Hours: 3**
- POLS 326 - Regional Planning **Credit Hours: 3**
- POLS 328 - Applied Policy: Occupational Safety and Health **Credit Hours: 3**

### Comparative Politics courses: POLS-330-339

- POLS 331 - Politics of Western Europe **Credit Hours: 3**
- POLS 334 - Ethnic Conflict and Nationalism **Credit Hours: 3**
- POLS 336 - Russian Politics and Society **Credit Hours: 3**

### International Relations courses: POLS 350-359

- POLS 352 - American Foreign Policy **Credit Hours: 3**
- POLS 354 - Model United Nations **Credit Hours: 3**
- POLS 355 - Model United Nations Practicum **Credit Hours: 1**
- POLS 356 - War, Peace, and Security **Credit Hours: 3**
- POLS 358 - Russian Foreign Policy **Credit Hours: 3**

### Electives (12 hours):

- From departmental offerings, may include one additional course at the 100-level.

## Psychology Major

### Major Requirements: (34 Hours)

- PSYC 101 - Introduction to Psychology **Credit Hours: 3**
- PSYC 151 - General Experimental Psychology **Credit Hours: 4**
- PSYC 232 - Behavioral Statistics **Credit Hours: 3**
- PSYC 351 - Advanced Experimental Psychology **Credit Hours: 4**
- PSYC 493 - Comprehensive Review **Credit Hours: 2**
- PSYC 495 - Senior Studies **Credit Hours: 2**

### Electives:

One course from each of the following perspectives (one of the four courses must include a lab):

### Biological:

- PSYC 281 - Physiological Psychology **Credit Hours: 3**
- PSYC 361 - Sensation and Perception **Credit Hours: 4** (lab)

- PSYC 371 - Psychopharmacology **Credit Hours: 4** (lab)

### Cognitive/Social:

- PSYC 304 - Learning and Memory **Credit Hours: 3**
- PSYC 305 - Cognitive Psychology **Credit Hours: 4** (lab)
- PSYC 321 - Social Psychology **Credit Hours: 3**
- PSYC 359 - Psychological Testing **Credit Hours: 4** (lab)

### Developmental:

- PSYC 205 - Child Development **Credit Hours: 3**
- PSYC 208 - Lifespan Development **Credit Hours: 3**
- PSYC 308 - Adolescence and Youth **Credit Hours: 3**
- PSYC 309 - Adulthood and Aging **Credit Hours: 3**

### Clinical/Applied:

- PSYC 290 - Theories of Personality **Credit Hours: 3**
- PSYC 363 - Abnormal Psychology **Credit Hours: 3**
- PSYC 390 - Counseling Theory and Process **Credit Hours: 3**
- PSYC 406 - Psychology of Law **Credit Hours: 3**

### Electives:

Take remaining hours from PSYC for a total of 34

### Double Majors:

Students choosing to major in psychology and another department are required to do only one Senior Studies project, registering for Senior Studies in one of the departments and establishing contact with an advisor in the other. The project must be empirical in nature and satisfactory to both departments. A copy of the work is turned in to each department and both a poster and an oral presentation are made to the psychology department. The student must take an additional 300- or 400- level class in the major for which the Senior Studies is not taken.

## Public Administration Major

### Major Requirements: (42 Hours)

(36 Hours)

- ACCT 201 - Financial Accounting **Credit Hours: 3**
- CRMJ 240 - Introduction to Research Methods **Credit Hours: 3**
- or
- POLS 240 - Introduction to Research Methods **Credit Hours: 3**
- ECON 215 - Principles of Microeconomics **Credit Hours: 3**

- ECON 216 - Principles of Macroeconomics **Credit Hours: 3**
- ENGL 201 - Advanced Writing and Professional Development **Credit Hours: 3**  
or
- ENGL 202 - Business Writing **Credit Hours: 3**
- IDIS 250 - Career Field Experience **Credit Hours: 1-2** (3 hours)  
or
- IDIS 300 - Internship **Credit Hours: 1-6**
- POLS 121 - Introduction to Public Administration and Policy **Credit Hours: 3**
- POLS 321 - Public Administration **Credit Hours: 3**
- POLS 322 - Public Policy **Credit Hours: 3**

Two of the following:

- POLS 323 - Administrative Law **Credit Hours: 3**
- POLS 325 - Public Sector Human Resource Management **Credit Hours: 3**
- POLS 326 - Regional Planning **Credit Hours: 3**
- POLS 328 - Applied Policy: Occupational Safety and Health **Credit Hours: 3**  
or
- GEOG 310 - Introduction to Geographic Information Systems **Credit Hours: 3**

Cognate Area: (6 upper level hours)

Students are required to secure approval from the Chair of the Department for a course of study that will enhance their preparation in Public Administration. (For example students who have an interest in historic districts might choose History, those interested in grant writing might find English to be helpful, and those interested in Parks and Recreation might find Health Science or Biology appropriate. Students may NOT choose Political Science as a cognate area.)

## Public Health Studies Major

Major Requirements: (40-46 Hours)

(19 hours)

- HLSC 101 - Introduction to Health Sciences **Credit Hours: 1**
- HLSC 151 - Global Health **Credit Hours: 3**
- HLSC 315 - Public Health and Epidemiology **Credit Hours: 3**
- HLSC 322 - Health Policy **Credit Hours: 3**
- HLSC 496 - Seminar in Public Health Studies **Credit Hours: 3**
- HLSC 304 - Statistics for the Health Sciences **Credit Hours: 3**  
or
- PSYC 231 - Applied Statistics **Credit Hours: 3**  
or
- PSYC 232 - Behavioral Statistics **Credit Hours: 3**
- PHIL 305 - Biomedical Ethics **Credit Hours: 3**

## Electives: (21-27 hours)

Choose a total of seven of the following courses with at least three from category A and at least one each from categories B and C.

### A: Social, Behavioral and Environmental Determinants of Health

- CHEM 235 - Environmental Chemistry **Credit Hours: 4**
- CRMJ 342 - Criminology **Credit Hours: 3**
- CVSC 331 - Conservation Biology **Credit Hours: 4**
- HIST 385 - American Environmental History **Credit Hours: 3**
- HLSC 312 - Social Gerontology **Credit Hours: 3**
- NUTR 131 - Introduction to Nutrition **Credit Hours: 3**
- or
- NUTR 231 - Nutrition Across the Lifespan **Credit Hours: 3**
- or
- HLSC 331 - Nutrition and Health **Credit Hours: 3**
  
- PSYC 208 - Lifespan Development **Credit Hours: 3**
- PSYC 281 - Physiological Psychology **Credit Hours: 3**
- PSYC 321 - Social Psychology **Credit Hours: 3**
- PSYC 363 - Abnormal Psychology **Credit Hours: 3**
- SOCI 216 - Social Problems in Contemporary America **Credit Hours: 3**
- SOCI 320 - Racial and Cultural Minorities **Credit Hours: 3**
- SOCI 330 - Human Sexuality **Credit Hours: 3**
- SOCI 345 - Sociology of the Family **Credit Hours: 3**
- SOCI 370 - Environmental Sociology **Credit Hours: 3**

### B: Health Program Planning and Assessment

- GEOG 310 - Introduction to Geographic Information Systems **Credit Hours: 3**
- HLSC 307 - Health Communication and Promotion **Credit Hours: 3**
- HLSC 308 - Community Health **Credit Hours: 3**
- HLSC 345 - Personal Health **Credit Hours: 3**
- HLSC 415 - Advanced Epidemiology **Credit Hours: 3**
- POLS 322 - Public Policy **Credit Hours: 3**
- POLS 328 - Applied Policy: Occupational Safety and Health **Credit Hours: 3**

### C: Physiologic and Molecular Determinants of Health

- BIOL 112 - Organismal Biology II **Credit Hours: 3** and
- BIOL 108 - Biology Laboratory II **Credit Hours: 1**
- or
- BIOL 121 - Anatomy & Physiology I **Credit Hours: 4**
- or
- BIOL 122 - Anatomy & Physiology II **Credit Hours: 4**
- or

- EXSC 131 - Human Structure and Function **Credit Hours: 4**
- BIOL 305 - Human Genetics **Credit Hours: 3**  
or
- BIOL 306 - Genetics **Credit Hours: 4**
- BIOL 312 - Microbiology **Credit Hours: 4**
- BIOL 346 - Pathophysiology **Credit Hours: 3**
- BIOL 375 - Molecular Biology **Credit Hours: 4**

## Public Relations Major

(Not Accepting New Majors)

Major Requirements: (49 Hours)

Public Relations Core Requirements: (49 Hours)

- PBRL 201 - Introduction to Public Relations **Credit Hours: 3**
- PBRL 315 - Case Studies and Campaigns **Credit Hours: 3**
- PBRL 399 - Internship **Credit Hours: 3**
- PBRL 495 - Seminar **Credit Hours: 3**
- COMM 101 - Communication Practicum **Credit Hours: 1** (3 hours, 1 hour each)
- COMM 201 - Communication Practicum **Credit Hours: 1** (3 hours, 1 hour each)
- COMM 301 - Communication Practicum **Credit Hours: 1** (3 hours, 1 hour each)
- COMM 401 - Communication Practicum **Credit Hours: 1** (3 hours, 1 hour each)
- COMM 325 - Communication Theory **Credit Hours: 3**
- COMM 360 - Research Methods **Credit Hours: 3**
- ENGL 316 - Public Relations Writing **Credit Hours: 3**
  
- ENGL 317 - Journalistic Ethics **Credit Hours: 3**  
or
- COMM 345 - Interviewing **Credit Hours: 3**
- MEDIA 420 - Media Law **Credit Hours: 3**
- ENGL 207 - Print Writing and Reporting **Credit Hours: 3**  
or
- JOURN 207 - Print Writing and Reporting **Credit Hours: 3**
- JOURN 219 - Photojournalism **Credit Hours: 3**  
or
- MEDIA 300 - Visual Communication **Credit Hours: 3**
- MEDIA 150 - Introduction to Convergent Media **Credit Hours: 3**
- MEDIA 210 - Media Literacy **Credit Hours: 3**
- MEDIA 240 - Broadcast Writing and Reporting **Credit Hours: 3**
  
- MEDIA 365 - Audio Production **Credit Hours: 3**  
or
- MEDIA 308 - Single Camera Video Production and Editing **Credit Hours: 3**

# Religion Major

## Major Requirements: (31 Hours)

- RELG 153 - World Religions **Credit Hours: 3**
- RELG 260 - Introduction to Christian Theology **Credit Hours: 3**
- RELG 301 - Old Testament Literature **Credit Hours: 3**
- RELG 303 - New Testament Literature **Credit Hours: 3**
- RELG 495 - Senior Seminar Research in Religion **Credit Hours: 1**
- RELG 496 - Senior Seminar **Credit Hours: 3**

## Electives (15 hours total)

- Choose at least one elective from each of the categories.
- RELG 290, RELG 360, and RELG 401 may count towards any category with departmental approval
- 9 elective hours must be at the 300 level or higher
- One PHIL elective course may take place of a RELG course with approval of Department Chair.

## Practical/Reflective:

- RELG 253 - Ethics, Reason, and the Bible **Credit Hours: 3**
- RELG 393 - Global Issues and Values **Credit Hours: 3**
- RELG 398 - Internship in Religion **Credit Hours: 1-2**
- RELG 399 - Continuing Internship in Religion **Credit Hours: 1-2**

## Comparative:

- RELG 153 - World Religions **Credit Hours: 3**
- RELG 252 - The Judeo-Christian Tradition **Credit Hours: 3**
- RELG 356 - Death and Dying in the World Religions **Credit Hours: 3**

## Cultural:

- RELG 251 - The World of Islam **Credit Hours: 3**
- RELG 261 - Women and the Bible **Credit Hours: 3**
- RELG 302 - History and the Bible **Credit Hours: 3**
- RELG 352 - Religion and Film **Credit Hours: 3**
- RELG 353 - Religion and Gender **Credit Hours: 3**

## Scriptural/Sacred Texts:

- RELG 150 - Biblical Theology **Credit Hours: 3**
- RELG 301 - Old Testament Literature **Credit Hours: 3**
- RELG 303 - New Testament Literature **Credit Hours: 3**
- RELG 304 - Jesus in the New Testament **Credit Hours: 3**

- RELG 342 - Religions and Philosophies of Asia **Credit Hours: 3**
- RELG 395 - World Mythology **Credit Hours: 3**

## Self-Designed Major

Students planning a self-designed interdisciplinary major (SDIM) consult appropriate academic and department advisors in developing a rationale and course of action for the major. The primary consideration for approval of an SDIM is that the proposal demonstrates respect for the depth that the major traditionally provides in the liberal arts curriculum. The SDIM major encompasses work from at least three departments and consists of no fewer than 40 or more than 60 hours, with a limit of 30 hours in any one department. In addition, an SDIM proposal should make provision for an appropriate seminar or "capstone" experience. The application process for an SDIM may begin as early as the sophomore year but must be completed no later than the end of the first semester of the junior year. To propose an SDIM, a student submits a written proposal to the Provost for consideration by the Curriculum Committee. The proposal shall include: (1) a statement of intended career or plans for graduate or professional study after graduation; (2) reasons why an SDIM is preferable to an established major; (3) an overview of the program of study thus far; (4) a proposed program or focus of study that lists courses by departments; (5) a proposed class schedule for the remaining semesters at Muskingum which has been reviewed by the Registrar; (6) an unofficial transcript of all Muskingum transfer courses; (7) signed statements of endorsement of the proposal by advisor(s) and chairs of the respective departments in which the proposed courses comprising the SDIM would be taken.

SDIMs are noted on the transcript as interdisciplinary and self-designed, together with identification of the three principal disciplines as defined in the approval proposal. e.g. IDIS (self designed); ART-PSYC-EDUC. Copies of the approved program will be kept on file by advisor (s), the Registrar, and the Provost or the VPGCS as appropriate. The Registrar will consider receipt of a copy of an approved SDIM to be an official declaration of major.

## Sociology Major

### Major Requirements: (30 Hours)

- SOCI 101 - The Sociological Perspective **Credit Hours: 3**
- SOCI 360 - Social Research Methods **Credit Hours: 3**
- SOCI 422 - Sociological Theory **Credit Hours: 3**
- SOCI 490 - Round Table **Credit Hours: 1** (twice)
- SOCI 495 - Senior Studies **Credit Hours: 2**
- SOCI 496 - Senior Studies **Credit Hours: 2**

### Electives:

Remainder of hours from other sociology offerings.

## Spanish Major

### Spanish Major Requirements: (33 hours beyond 112)

Study Abroad, SPAN 310, SPAN 431, one course in another foreign language at the appropriate level. Enrollment in Spanish Table (SPAN 251/SPAN 291) expected every semester, required when not enrolled in a Spanish course; 2

hours applied to major or minor. No more than one upper-level Spanish courses taught in English is allowed to count toward major requirements.

## Special Education Major

Special Education major prepares individuals to work with students with special needs in grades K-12 and leads to the Intervention Specialist: Mild to Moderate (K-12) license.

### Major Requirements

#### Course requirements include:

- EDUC 110 - Introduction to Education **Credit Hours: 1**
- EDUC 112 - Educational Implications of Diversity **Credit Hours: 3**
- EDUC 215 - Educational Psychology **Credit Hours: 3**
- EDUC 220 - Mathematics Content for Early Childhood and Intervention Specialist Teachers **Credit Hours: 3**
- EDUC 309 - Early Childhood Education and Curriculum **Credit Hours: 3**
- EDUC 312 - Developmentally Responsive Middle Schools **Credit Hours: 3**
- EDUC 313 - Curriculum and Instruction for the Adolescent **Credit Hours: 3**  
or
- EDUC 314 - Multi-Age Curriculum and Instruction **Credit Hours: 3**
- EDUC 330 - Serving Individuals with Exceptionalities **Credit Hours: 3**
- EDUC 335 - Educational Technology **Credit Hours: 3**
- EDUC 340 - Nature and Needs of Students with Disabilities **Credit Hours: 3**
- EDUC 341 - Assessment in Education **Credit Hours: 3**
- EDUC 362 - Integrating Language Arts and Social Studies in Early Childhood **Credit Hours: 3**
- EDUC 366 - Mathematics in Early Childhood Education **Credit Hours: 3**
- EDUC 367 - Science in Early Primary Education **Credit Hours: 3**
- EDUC 370 - Phonics and the Process of Reading **Credit Hours: 3**
- EDUC 371 - Emergent through Adolescent Literacy **Credit Hours: 3**
- EDUC 383 - Language Arts Methods for Middle Childhood Educators **Credit Hours: 3**
- EDUC 385 - Math Methods for Middle Childhood Educators **Credit Hours: 3**
- EDUC 413 - Reading in the Content Areas **Credit Hours: 3**
- EDUC 414 - Reading Assessment and Intervention **Credit Hours: 3**
- EDUC 419 - Co-teaching and Collaboration in Education **Credit Hours: 2**
- EDUC 420 - Proactive Approaches to Classroom Management and Support **Credit Hours: 2**
- EDUC 432 - Student Teaching in Special Education **Credit Hours: 9**
- EDUC 434 - Instructional Services for Children with Mild/Moderate Special Needs **Credit Hours: 3**
- EDUC 461 - Student Teaching Seminar **Credit Hours: 1**
- EDUC 468 - Professional Practices in Special Education **Credit Hours: 2**
- SOCI 101 - The Sociological Perspective **Credit Hours: 3**

#### One of the following:

- EDUC 418 - Professional Practices for Early Childhood **Credit Hours: 2**



- EDUC 465 - Professional Practices in Middle Level Education **Credit Hours: 2**
- EDUC 466 - Professional Practices in Secondary Schools **Credit Hours: 2**

## **Sport Administration Major**

### **Major Requirements: (41 Hours)**

(35 hours)

- BUSI 221 - Organizational Management **Credit Hours: 3**
- BUSI 241 - Marketing **Credit Hours: 3**
- ECON 215 - Principles of Microeconomics **Credit Hours: 3**
- SPCOM 221 - Sports Communication **Credit Hours: 3**
- SPST 201 - Facility Management **Credit Hours: 3**
- SPST 202 - Sports Governance **Credit Hours: 3**
- SPST 302 - Sports Administration Practicum **Credit Hours: 1** Taken 2 times
- SPST 344 - Legal Issues in Sport **Credit Hours: 3**
- SPST 355 - Sports Ethics **Credit Hours: 3**
- SPST 441 - Sports Management **Credit Hours: 3**
- SPST 496 - Seminar in Sport Administration **Credit Hours: 3**

### **Electives (6 hours):**

- ACCT 201 - Financial Accounting **Credit Hours: 3**
- ACCT 202 - Managerial Accounting **Credit Hours: 3**
- BUSI 318 - Managerial Finance **Credit Hours: 3**
- BUSI 415 - Human Resource Management **Credit Hours: 3**
- POLS 321 - Public Administration **Credit Hours: 3**
- POLS 325 - Public Sector Human Resource Management **Credit Hours: 3**
- POLS 365 - International Sport and Politics **Credit Hours: 3**

## **Sport and Fitness Science Major (MAP)**

**The Sport & Fitness major is designed for healthcare professionals with an associate of science degree who wish to obtain a Bachelor of Science (BS) degree in Sport and Fitness Science.**

The Bachelor of Science and clinical experience will enable candidates to successfully apply/obtain advanced certifications such as Certified Strength and Conditioning Specialist (CSCS), and Certified Special Population Specialist (CSPS). This combination of credentials will prepare candidates for positions such as High School Strength and Conditioning Coach, Strength and Fitness Professional, or Strength and Conditioning Specialist in the sport and fitness industry at the community, medical, athletic and/or corporate levels.

Professionals with a sport and fitness or exercise science background, and physical therapists assistants also often choose this major to continue on for a master's in athletic training.

## Major Requirements (30 semester hours for major)

### Health Core Requirements (12 Credit Hours)

- HLSC 301 - The American Health Care System **Credit Hours: 3**
- HLSC 495 - Seminar in Health Science **Credit Hours: 3**
- HLSC 307 - Health Communication and Promotion **Credit Hours: 3**

Choose one of the following:

- HLSC 304 - Statistics for the Health Sciences **Credit Hours: 3**
- HLSC 305 - Health Informatics **Credit Hours: 3**

### Foundational Core Requirements (9 Credit Hours)

- EXSC 333 - Motor Learning and Performance **Credit Hours: 3**
- EXSC 336 - Principles of Strength and Conditioning **Credit Hours: 3**
- SPST 441 - Sports Management **Credit Hours: 3**

### Sport & Fitness Electives (9 Credit Hours)

Choose Four of the Following:

- BIOL 346 - Pathophysiology **Credit Hours: 3**
- BIOL 376 - Pathophysiology II **Credit Hours: 3**
- PSYC 430 - Psychology of Injury **Credit Hours: 3**
- HLSC 330 - The Human Body: Structure and Function **Credit Hours: 3**
- HLSC 331 - Nutrition and Health **Credit Hours: 3**
- EXSC 337 - Exercise Testing and Prescription **Credit Hours: 3**

## Customize Your Curriculum Plan

MAP majors are designed to accommodate the demands of your career and personal life. Most courses are offered multiple times per year within four 10-week terms. This allows you to:

- Adjust your course load: take only 1 or up to 4 courses each term
- Choose the pace at which you will complete your program: take courses in just one term each year, or in all 4
- Customized dual majors and or/minors: Your Health-Related Program Advisor will help you create a curriculum plan to meet your career goals

For additional information, contact Jennifer Baird, Allied Health Programs Advisor, at [jbaird@muskingum.edu](mailto:jbaird@muskingum.edu) or 740-826-8470

For a complete listing of MAP requirements, policies and procedures please refer to the Muskingum Adult Program Guidebook( pdf).

## **Sports Communication, Major**

### **Requirements (38 hours)**

- SPCOM 221 - Sports Communication **Credit Hours: 3**
- SPCOM 240 - Sports Media **Credit Hours: 3**
- SPCOM 321 - Social Media and Technology in Sports **Credit Hours: 3**
- SPCOM 331 - The Art of Sports Broadcasting **Credit Hours: 3**
- SPCOM 341 - Sports Planning and Promotion **Credit Hours: 3**
- SPCOM 401 - Sports Communication Practicum **Credit Hours: 1** (Take 2 times)
- SPCOM 495 - Seminar in Sports Communication **Credit Hours: 3**
- SPST 355 - Sports Ethics **Credit Hours: 3**
- COMM 330 - Communication, Sports, and America **Credit Hours: 3**
- MEDIA 150 - Introduction to Convergent Media **Credit Hours: 3**
- MEDIA 240 - Broadcast Writing and Reporting **Credit Hours: 3**

### **Electives (Take 6 credits)**

- MEDIA 225 - Introduction to Video Editing **Credit Hours: 3**
- MEDIA 300 - Visual Communication **Credit Hours: 3**
- MEDIA 308 - Single Camera Video Production and Editing **Credit Hours: 3**
- JOURN 219 - Photojournalism **Credit Hours: 3**
- COMM 335 - Small Group Communication **Credit Hours: 3**
- COMM 355 - Organizational Communication **Credit Hours: 3**
- COMM 246 - Interpersonal Communication **Credit Hours: 3**
- SPCOM 390 - Topics in Sports Communication **Credit Hours: 3**

## **Theatre Major**

### **Major Requirements: (34 Hours)**

- THEA 245 - Technical Production **Credit Hours: 3**
- THEA 265 - Design I: Explorations in Theatre Design **Credit Hours: 3**
- THEA 275 - Acting I **Credit Hours: 3**
- THEA 351 - World Theatre History **Credit Hours: 3**
- THEA 352 - Dramatic Literature **Credit Hours: 3**
- THEA 396 - Theatre Research: Methods and Theory **Credit Hours: 3**
- THEA 495 - Theatre Senior Seminar **Credit Hours: 3**

### **Electives:**

remaining 13 credit hours may include with department approval a maximum of 6 hours in Communication excluding COMM 200

## **Minors**

### **Accounting, Minor**

#### **Minor Requirements: (15 Hours)**

- ACCT 201 - Financial Accounting **Credit Hours: 3**
- ACCT 202 - Managerial Accounting **Credit Hours: 3**  
or
- ACCT 363 - Cost Accounting **Credit Hours: 3**
- ACCT 301 - Intermediate Accounting I **Credit Hours: 3**
- ACCT 302 - Intermediate Accounting II **Credit Hours: 3**  
or
- ACCT 364 - Income Taxes **Credit Hours: 3**
- ECON 215 - Principles of Microeconomics **Credit Hours: 3**

### **American Studies, Minor**

#### **Minor Requirements: (15 Hours)**

- IDIS 240 - Introduction to American Studies **Credit Hours: 3**
- 12 hours from at least three disciplines and two divisions, with at least two from the 300 level.

#### **Lower Level Offerings:**

- ECON 215 - Principles of Microeconomics **Credit Hours: 3**
- ECON 216 - Principles of Macroeconomics **Credit Hours: 3**
- ENGL 233 - American Literature to 1865 **Credit Hours: 3**  
or
- ENGL 234 - American Literature after 1865 **Credit Hours: 3**
  
- ENGL 235 - African-American Literature **Credit Hours: 3**
- HIST 105 - United States History to 1877 **Credit Hours: 3**
- HIST 106 - United States History since 1877 **Credit Hours: 3**
- HIST 230 - The American Civil War **Credit Hours: 3**
- POLS 111 - American Political Systems **Credit Hours: 3**
- SOCI 216 - Social Problems in Contemporary America **Credit Hours: 3**

#### **Upper Level Offerings:**

- ENGL 341 - Nineteenth Century American Fiction **Credit Hours: 3**
- ENGL 343 - Modern and Contemporary American Fiction **Credit Hours: 3**

- ENGL 351 - Modern and Contemporary American Poetry **Credit Hours: 3**
- ENGL 385 - Topics in Literature, Film, and Culture **Credit Hours: 3** (ENGL 385 can count no more than twice, and only when it focuses on a different American author)
- HIST 372 - Empires of North America **Credit Hours: 3**
- HIST 374 - Ohio History **Credit Hours: 3**
- HIST 378 - Gender and Sexuality in American History **Credit Hours: 3**
- HIST 379 - Youth in Modern America **Credit Hours: 3**
- HIST 380 - The History of the American Dream **Credit Hours: 3**
- HIST 381 - 1950s America **Credit Hours: 3**
- HIST 382 - 1960s and American Film **Credit Hours: 4**
- HIST 385 - American Environmental History **Credit Hours: 3**
- HIST 390 - Topics in History **Credit Hours: 3** (American topics only)
- PHIL 343 - Social and Political Philosophy **Credit Hours: 3** (Cross listed with SOCI 335 and POLS 343)
- POLS, one from POLS 311-POLS 319, one from POLS 321-POLS 328
- POLS 352 - American Foreign Policy **Credit Hours: 3**
- SOCI 301 - American Society: Class and Culture **Credit Hours: 3**
- SOCI 320 - Racial and Cultural Minorities **Credit Hours: 3**
- SOCI 345 - Sociology of the Family **Credit Hours: 3**

## Art, Minor

### Minor Requirements: (15 Hours)

- ART 112 - Drawing I **Credit Hours: 3**
- ART 121 - Ceramics I **Credit Hours: 3**
- ART 151 - Introduction to Art **Credit Hours: 3**
- ART 170 - Graphic Design I **Credit Hours: 3**

### Electives:

- 3 additional hours of art electives

## Biology, Minor

### Minor Requirements: (19 Hours)

Only biology courses will count for the minor.

- BIOL 111 - Organismal Biology I **Credit Hours: 3**
- BIOL 107 - Biology Laboratory I **Credit Hours: 1**
- BIOL 112 - Organismal Biology II **Credit Hours: 3**
- BIOL 108 - Biology Laboratory II **Credit Hours: 1**
- BIOL 226 - Introduction to Cell and Molecular Biology **Credit Hours: 3**
- a minimum of eight additional credit hours from courses at the 200-level or higher,

## **Business Management, Minor**

### Minor Requirements: (15 Hours)

- ACCT 201 - Financial Accounting **Credit Hours: 3**
- BUSI 221 - Organizational Management **Credit Hours: 3**
- ECON 215 - Principles of Microeconomics **Credit Hours: 3**

### Electives:

two classes from

- BUSI 318 - Managerial Finance **Credit Hours: 3** (if not used to satisfy the Marketing major)
- BUSI 325 - Statistics **Credit Hours: 3** (if not used to satisfy the Marketing major or minor)
- BUSI 326 - Financial Analysis and Investment **Credit Hours: 3**
- BUSI 360 - Business Law **Credit Hours: 3**
- BUSI 411 - Topics in Business **Credit Hours: 3**
- BUSI 412 - International Business **Credit Hours: 3**
- BUSI 413 - Software Applications for Business **Credit Hours: 3**
- BUSI 414 - Business Ethics **Credit Hours: 3**
- BUSI 415 - Human Resource Management **Credit Hours: 3**
- BUSI 424 - Entrepreneurship **Credit Hours: 3**
- ENGL 202 - Business Writing **Credit Hours: 3**
- COMM 335 - Small Group Communication **Credit Hours: 3** (cannot count toward both business management and marketing major)
- COMM 345 - Interviewing **Credit Hours: 3**
- COMM 355 - Organizational Communication **Credit Hours: 3**
- HLSC 201 - Introduction to Health Administration **Credit Hours: 3**
- HLSC 326 - Health Care Finance **Credit Hours: 3**
- SPST 201 - Facility Management **Credit Hours: 3**
  
- SPST 441 - Sports Management **Credit Hours: 3**

## **Chemistry, Minor**

### Minor Requirements: (19 Hours)

- CHEM 111 - General Chemistry I **Credit Hours: 4**
- CHEM 112 - General Chemistry II **Credit Hours: 4**

### Electives:

- 11 hours excluding CHEM 101, CHEM 105, or CHEM 108; and including a minimum of 3 hours at 300-level or above

## **Communication Studies, Minor**

Minor Requirements: (15 Hours)

- three hours at 300- or 400-level

## **Computer Science, Minor**

Minor Requirements: (15 Hours)

- CPSC 320 - Algorithm Analysis **Credit Hours: 3**

## **Criminal Justice, Minor**

Minor Requirements: (15 Hours)

- CRMJ 101 - Introduction to Criminal Justice **Credit Hours: 3**
- three additional CRMJ courses (at least one at the 300- or 400-level)

one from

- CRMJ 230 - American Law Enforcement **Credit Hours: 3**
- CRMJ 250 - American Courts **Credit Hours: 3**
- CRMJ 270 - American Corrections **Credit Hours: 3**

## **Digital Media Design, Minor**

Minor Requirements: (15 Hours)

- ART 170 - Graphic Design I **Credit Hours: 3**
- DMD 400 - Principles of Interactive Design **Credit Hours: 3**
- MEDIA 150 - Introduction to Convergent Media **Credit Hours: 3**
- MEDIA 210 - Media Literacy **Credit Hours: 3**
- MEDIA 300 - Visual Communication **Credit Hours: 3**

## **Earth Science, Minor**

Minor Requirements: (At Least 17 Hours)

- GEOL 101 - Introduction to Geology **Credit Hours: 4**  
or
- GEOL 110 - Environmental Geology **Credit Hours: 4**

- GEOL 104 - Earth History **Credit Hours: 4**
- GEOL 200 - Oceanography **Credit Hours: 3**
- two more GEOL courses at the 300-level

## **Economics, Minor**

Minor Requirements: (15 Hours)

- ECON 215 - Principles of Microeconomics **Credit Hours: 3**
- ECON 216 - Principles of Macroeconomics **Credit Hours: 3**
- ECON 311 - Money and Banking **Credit Hours: 3**
- ECON 333 - Intermediate Microeconomic Theory **Credit Hours: 3**
- ACCT 201 - Financial Accounting **Credit Hours: 3**

## **English, Minor**

Minor Requirements: (15 hours not including 121)

- 3 hours ENGL at 300-level or above

## **Film Studies, Minor**

Minor Requirements: (17 Hours)

- IDIS 160 - Introduction to Film Studies **Credit Hours: 3**
- IDIS 260 - Topics in Film Studies **Credit Hours: 1** (taken twice)

Electives:

12 hours from

- ENGL 386 - Topics in Film and Literature **Credit Hours: 3**
- MEDIA 210 - Media Literacy **Credit Hours: 3**
- MEDIA 300 - Visual Communication **Credit Hours: 3**
- MEDIA 308 - Single Camera Video Production and Editing **Credit Hours: 3**
- POLS 372 - Politics in Film **Credit Hours: 3**
- RELG 352 - Religion and Film **Credit Hours: 3**
- SOCI 301 - American Society: Class and Culture **Credit Hours: 3**
- SOCI 342 - Gender, Film, and Society **Credit Hours: 3**
- THEA 350 - A History of Film **Credit Hours: 3**

## **Gender Studies, Minor**

Minor Requirements: (15 Hours)



- 15 credit hours from three departments and two academic divisions; at least six hours at the 300-level or above; and IDIS 291.

### Social Science Division:

- HIST 220 - US Women's History **Credit Hours: 3**
- HIST 378 - Gender and Sexuality in American History **Credit Hours: 3** (with the addition of a major paper, topic to be approved by the program advisor)
- HLSC 312 - Social Gerontology **Credit Hours: 3**
- PSYC 321 - Social Psychology **Credit Hours: 3**
- SOCI 330 - Human Sexuality **Credit Hours: 3**
- SOCI 342 - Gender, Film, and Society **Credit Hours: 3**
- SOCI 345 - Sociology of the Family **Credit Hours: 3**

### Arts and Humanities Division:

- COMM 340 - Gender Communication **Credit Hours: 3**
- ENGL 387 - Topics in Literature and Gender **Credit Hours: 3**
- FREN 325 - Topics in French Civilization **Credit Hours: 3**
- RELG 261 - Women and the Bible **Credit Hours: 3**
- RELG 353 - Religion and Gender **Credit Hours: 3**

### Education Division:

- SPST 355 - Sports Ethics **Credit Hours: 3**

### Science Division:

- BIOL 122 - Anatomy & Physiology II **Credit Hours: 4**

### Options:

Special topic courses in other departments (Political Science, Business, Education, Art, Psychology, Neuroscience, and Conservation Science, for example) could also count toward the Gender Studies minor. Internships (up to three credit hours) consisting of placement at an agency dealing with gender-based concerns (sexual assault intervention, shelter work, etc.), writing, designing or editing Gender Studies newsletter or journal, working with programs in the schools (to encourage nontraditional careers, for example, or to assist single parents). Directed or independent study, cross-listed courses from a variety of departments.

## General Engineering, Minor

### Minor Requirements: (33 Hours)

- PHEN 110 - Introduction to Physics and Engineering **Credit Hours: 2**
- PHEN 121 - Classical Physics I **Credit Hours: 4**
- PHEN 122 - Classical Physics II **Credit Hours: 4**

- PHEN 203 - Modern Physics **Credit Hours: 4**
- PHEN 330 - Principles of Design **Credit Hours: 3**
- MATH 190 - Calculus I **Credit Hours: 4**
- MATH 200 - Calculus II **Credit Hours: 4**

Two of the following:

- PHEN 210 - Statics **Credit Hours: 4**
- PHEN 235 - Electrical Circuit Analysis and Design **Credit Hours: 4**
- PHEN 300 - Material Science **Credit Hours: 4**
- PHEN 310 - Optics **Credit Hours: 4**
- PHEN 410 - Measurements **Credit Hours: 3**

## **Geology, Minor**

Minor Requirements: (At Least 16 Hours)

- GEOL 101 - Introduction to Geology **Credit Hours: 4**  
or
- GEOL 110 - Environmental Geology **Credit Hours: 4**
- GEOL 301 - Mineralogy **Credit Hours: 4**
- GEOL 302 - Igneous and Metamorphic Petrology **Credit Hours: 3**  
or
- GEOL 303 - Sedimentary Petrology **Credit Hours: 3**
- two more GEOL courses

## **Health Administration, Minor**

Minor Requirements: (18 Hours)

- ACCT 201 - Financial Accounting **Credit Hours: 3**
- BUSI 221 - Organizational Management **Credit Hours: 3**
- HLSC 110 - Medical Terminology I **Credit Hours: 1**
- HLSC 111 - Medical Terminology II **Credit Hours: 1**
- HLSC 201 - Introduction to Health Administration **Credit Hours: 3**
- HLSC 307 - Health Communication and Promotion **Credit Hours: 3**
- HLSC 322 - Health Policy **Credit Hours: 3**

## **Health and Fitness, Minor**

Minor Requirements: (16 Hours)

- EXSC 131 - Human Structure and Function **Credit Hours: 4**
- EXSC 249 - Exercise Physiology **Credit Hours: 3**
- EXSC 337 - Exercise Testing and Prescription **Credit Hours: 3**
- NUTR 131 - Introduction to Nutrition **Credit Hours: 3**

One of the following:

- EXSC 333 - Motor Learning and Performance **Credit Hours: 3**
- EXSC 336 - Principles of Strength and Conditioning **Credit Hours: 3**
- EXSC 338 - Kinesiology **Credit Hours: 3**
- EXSC 349 - Advanced Exercise Physiology **Credit Hours: 3**
- HLSC 307 - Health Communication and Promotion **Credit Hours: 3**
- HLSC 345 - Personal Health **Credit Hours: 3**
- HLSC 308 - Community Health **Credit Hours: 3**
- NUTR 332 - Sport Nutrition and Supplementation **Credit Hours: 3**

## History, Minor

Minor Requirements: (15 Hours)

- at least one three-credit HIST course at the 300- or 400-level.

## Human Biology, Minor

Minor Requirements: (19 Hours)

- BIOL 121 - Anatomy & Physiology I **Credit Hours: 4**
- BIOL 122 - Anatomy & Physiology II **Credit Hours: 4**
- or
- HLSC 330 - The Human Body: Structure and Function **Credit Hours: 3 \***
- BIOL 305 - Human Genetics **Credit Hours: 3 \***
- or
- BIOL 306 - Genetics **Credit Hours: 4**
- BIOL 346 - Pathophysiology **Credit Hours: 3**

Electives:

- BIOL 213 - Functional Histology **Credit Hours: 4**
- BIOL 312 - Microbiology **Credit Hours: 4**
- BIOL 368 - Fundamental Neuroscience **Credit Hours: 4**
- BIOL 385 - Topics in Biology **Credit Hours: 1-4** (Topics: Advanced Pathophysiology) \*
- EXSC 338 - Kinesiology **Credit Hours: 3**
- HLSC 331 - Nutrition and Health **Credit Hours: 3 \***
- HLSC 341 - Applied Clinical Biochemistry I **Credit Hours: 3 \***
- HLSC 342 - Applied Clinical Biochemistry II **Credit Hours: 3 \***

- MBIO 211 - Topics in Molecular Biology **Credit Hours: 1**
- NRSC 201 - Topics in Neuroscience **Credit Hours: 1**
- NRSC 386 - Neuropharmacology **Credit Hours: 4**
- NUTR 231 - Nutrition Across the Lifespan **Credit Hours: 3**

## Notes

\*Offered only in MAP

## Marketing, Minor

### Minor Requirements: (15 Hours)

- ACCT 201 - Financial Accounting **Credit Hours: 3**
- BUSI 241 - Marketing **Credit Hours: 3**
- ECON 215 - Principles of Microeconomics **Credit Hours: 3**

### Electives:

two classes from

- BUSI 318 - Managerial Finance **Credit Hours: 3** (if not used to satisfy the Business Management major)
  - BUSI 325 - Statistics **Credit Hours: 3** (if not used to satisfy the Management major or minor)
  - BUSI 411 - Topics in Business **Credit Hours: 3**
  - BUSI 416 - Professional Selling **Credit Hours: 3**
  - BUSI 417 - Advertising **Credit Hours: 3**
  - BUSI 419 - Consumer Behavior **Credit Hours: 3**
  - BUSI 422 - Marketing Research **Credit Hours: 3**
  - BUSI 423 - International Marketing **Credit Hours: 3**
  - BUSI 424 - Entrepreneurship **Credit Hours: 3** (cannot count toward both business and marketing minor)
  - COMM 335 - Small Group Communication **Credit Hours: 3**
  - ENGL 316 - Public Relations Writing **Credit Hours: 3**
  - HLSC 307 - Health Communication and Promotion **Credit Hours: 3**
  - MEDIA 300 - Visual Communication **Credit Hours: 3**
- or

## Mathematics, Minor

### Minor Requirements: (15 Hours)

- MATH 190 - Calculus I **Credit Hours: 4**
- MATH 230 - Linear Algebra and Vectors **Credit Hours: 3**
- three hours at 300- or 400-level

## Electives:

remainder of hours from other offerings (excluding MATH 100), including at most one course at the 100-level (other than MATH 190)

## Music, Minor

### Minor Requirements: (18-19 Hours)

- MUSC 111 - Materials of Music I **Credit Hours: 4**
- MUSC 112 - Materials of Music II **Credit Hours: 4**
- MUSC 115 - Aural Skills I **Credit Hours: 1**
- MUSC 116 - Aural Skills II **Credit Hours: 1**
- MUSC 140 - Diction for Singing **Credit Hours: 1** (for students with a vocal concentration)
- 4 hours of applied study in one area
- 4 hours in the appropriate major ensemble

### 4 semesters of

(Those seeking the minor for early childhood licensure add MUSC 382)

- MUSC 100 - Performance Seminar **Credit Hours: 0**
- MUSC 300 - Performance Seminar **Credit Hours: 0**

## Musical Theatre, Minor

### Minor Requirements: (23 Hours)

- MUSC 111 - Materials of Music I **Credit Hours: 4**
- MUSC 115 - Aural Skills I **Credit Hours: 1**
- MUSC 140 - Diction for Singing **Credit Hours: 1**
- MUSC 141 - Voice **Credit Hours: .5-1** (both taken twice)  
or
- MUSC 341 - Voice **Credit Hours: .5-1** (both taken twice)
- MUSC 164 - Musical Theatre Workshop **Credit Hours: 1** (both taken twice)  
or
- MUSC 364 - Musical Theatre Workshop **Credit Hours: 1** (both taken twice)
- THEA 223 - Auditioning **Credit Hours: 1**
- THEA 275 - Acting I **Credit Hours: 3**
- THEA 285 - Dance for Musical Theatre **Credit Hours: 1-3**
- THEA 314 - Acting II **Credit Hours: 3**
- THEA 360 - American Musical Theatre: History and Structure **Credit Hours: 3**

## Nutrition, Minor

## Minor Requirements: (20 Hours)

- CHEM 108 - General, Organic, and Biological Chemistry **Credit Hours: 4**
- EXSC 131 - Human Structure and Function **Credit Hours: 4**
- EXSC 337 - Exercise Testing and Prescription **Credit Hours: 3**
- NUTR 131 - Introduction to Nutrition **Credit Hours: 3**
- NUTR 231 - Nutrition Across the Lifespan **Credit Hours: 3**
- NUTR 332 - Sport Nutrition and Supplementation **Credit Hours: 3**

## Philosophy, Minor

### Minor Requirements: (15 Hours)

- 15 hours in Philosophy (PHIL) offerings: option of one offering in Religion (RELG) with permission of department chair

## Physics, Minor

### Minor Requirements: (32 Hours)

- PHEN 110 - Introduction to Physics and Engineering **Credit Hours: 2**
- PHEN 121 - Classical Physics I **Credit Hours: 4**
- PHEN 122 - Classical Physics II **Credit Hours: 4**
- PHEN 203 - Modern Physics **Credit Hours: 4**
- PHEN 210 - Statics **Credit Hours: 4**
- PHEN 340 - Theoretical Physics I **Credit Hours: 3**
- MATH 190 - Calculus I **Credit Hours: 4**
- MATH 200 - Calculus II **Credit Hours: 4**
- MATH 230 - Linear Algebra and Vectors **Credit Hours: 3**

## Political Science, Minor

### Minor Requirements: (15 Hours)

- Six (6) hours at the 100 or 200 level
- Nine (9) hours at the 300 or 400 level

## Pre-Law, Minor

### Pre-Law Minor Requirements: (22 Hours)

Only two courses from any given discipline can count toward completion of the minor.

## Pre-Law Core Requirements: (7 Hours)

- IDIS 360 - Pre-Law **Credit Hours: 1**
- LIBR 220 - Beyond Google: Research Skills and Resources **Credit Hours: 3**
- PHIL 202 - Logic and Critical Thinking **Credit Hours: 3**

## Distribution: (15 Hours)

One course from each category below:

### Analytic/Problem-Solving Skills:

- COMM 335 - Small Group Communication **Credit Hours: 3**
- ENGL 361 - Language: Structure and Usage **Credit Hours: 3**
- POLS 312 - Constitutional Law Governmental Powers **Credit Hours: 3**
- POLS 317 - Constitutional Law II: Civil Rights and Liberties **Credit Hours: 3**

### Critical Reading Abilities:

- ENGL 320 - Principles of Literary Study **Credit Hours: 3**
- ENGL 385 - Topics in Literature, Film, and Culture **Credit Hours: 3**
- HIST 372 - Empires of North America **Credit Hours: 3**
- PHIL 325 - Western Philosophy: The Ancients **Credit Hours: 3**
- THEA 352 - Dramatic Literature **Credit Hours: 3**

### Writing Skills:

- ENGL 201 - Advanced Writing and Professional Development **Credit Hours: 3**
- ENGL 202 - Business Writing **Credit Hours: 3**
- HIST 380 - The History of the American Dream **Credit Hours: 3**
  
- PHIL 343 - Social and Political Philosophy **Credit Hours: 3**  
or
- POLS 343 - Social and Political Philosophy **Credit Hours: 3**  
or
- SOCI 335 - Social and Political Philosophy **Credit Hours: 3**
  
- SOCI 320 - Racial and Cultural Minorities **Credit Hours: 3**

### Oral Communication:

- BUSI 416 - Professional Selling **Credit Hours: 3**
- COMM 205 - Professional Speaking **Credit Hours: 3**
- COMM 260 - Oral Interpretation of Literature **Credit Hours: 3**
- COMM 315 - Argumentation **Credit Hours: 3**
- COMM 345 - Interviewing **Credit Hours: 3**

- THEA 275 - Acting I **Credit Hours: 3**
- THEA 316 - Improvisation **Credit Hours: 3**

### Law and Society:

- BUSI 360 - Business Law **Credit Hours: 3**
- MEDIA 420 - Media Law **Credit Hours: 3**
- POLS 323 - Administrative Law **Credit Hours: 3**
- PSYC 406 - Psychology of Law **Credit Hours: 3**

## **Pre-Social Work, Minor**

### Pre-Social Work Minor Requirements: (22 Hours)

#### Pre-Social Work Core Requirements: (12 Hours)

- ECON 215 - Principles of Microeconomics **Credit Hours: 3**
- POLS 111 - American Political Systems **Credit Hours: 3**
- PSYC 101 - Introduction to Psychology **Credit Hours: 3**
- SOCI 101 - The Sociological Perspective **Credit Hours: 3**

#### Distribution: (10 Hours)

- one from each category below:

#### Human Biology

- BIOL 106 (Human Biology) or other Human Biology classes as determined by an advisor

#### Statistics

- BUSI 325 - Statistics **Credit Hours: 3**
- MATH 140 - Practical Statistics **Credit Hours: 3**
- PSYC 232 - Behavioral Statistics **Credit Hours: 3**

#### At Least One of the Following:

- CRMJ 372 - Juvenile Justice **Credit Hours: 3**
- POLS 321 - Public Administration **Credit Hours: 3**
- POLS 322 - Public Policy **Credit Hours: 3**
- PSYC 363 - Abnormal Psychology **Credit Hours: 3**
- PSYC 390 - Counseling Theory and Process **Credit Hours: 3**
- SOCI 320 - Racial and Cultural Minorities **Credit Hours: 3**
- SOCI 345 - Sociology of the Family **Credit Hours: 3**



## **Psychology Minor**

### Minor Requirements:

- 15 hours with at least one three-credit course at the 300- or 400-level

## **Public Health Studies, Minor**

### Minor Requirements: (16 Hours)

- HLSC 101 - Introduction to Health Sciences **Credit Hours: 1**
- HLSC 151 - Global Health **Credit Hours: 3**
- HLSC 315 - Public Health and Epidemiology **Credit Hours: 3**
- HLSC 322 - Health Policy **Credit Hours: 3**
- HLSC 304 - Statistics for the Health Sciences **Credit Hours: 3**
- or
- PSYC 231 - Applied Statistics **Credit Hours: 3**
- or
- PSYC 232 - Behavioral Statistics **Credit Hours: 3**
- PHIL 305 - Biomedical Ethics **Credit Hours: 3**

## **Religion, Minor**

### Minor Requirements: (15 Hours)

- 15 hours in Religion (RELG) offerings: option of one offering in Philosophy (PHIL) with permission of department chair

## **Sociology, Minor**

### Minor Requirements: (15 Hours)

- SOCI 101 - The Sociological Perspective **Credit Hours: 3**
- three hours at 300- or 400-level

### Electives:

Remainder of hours from other departmental offerings

## **Spanish, Minor**

### Minor Requirements: (19 Hours)

- 19 credit hours in Spanish courses taught in Spanish, to include SPAN 240 or one 300 level course taught in Spanish.

## **Sport Administration, Minor**

### **Minor Requirements: (19 Hours)**

- BUSI 221 - Organizational Management **Credit Hours: 3**
- BUSI 241 - Marketing **Credit Hours: 3**
- SPST 201 - Facility Management **Credit Hours: 3**
- SPST 202 - Sports Governance **Credit Hours: 3**
- SPST 344 - Legal Issues in Sport **Credit Hours: 3**
- SPST 441 - Sports Management **Credit Hours: 3**
- SPST 402 - Sport Administration Practicum **Credit Hours: 1**

## **Sports Coaching, Minor**

### **Minor Requirements: (22 Hours)**

- EXSC 210 - First Aid and CPR **Credit Hours: 3**
- SPST 105 - Introduction to Sports Analytics **Credit Hours: 3**
- SPST 203 - Foundations of Athletic Skill **Credit Hours: 3**
- SPST 303 - Coaching Practicum **Credit Hours: 1**  
Taken at least 1 time (no more than 3) or IDIS 300 as approved by department.
- SPST 344 - Legal Issues in Sport **Credit Hours: 3**
- SPST 355 - Sports Ethics **Credit Hours: 3**
- SPST 418 - Coaching Team Sports **Credit Hours: 3**
- SPST 490 - Coaching Colloquium **Credit Hours: 1**

## **Sports Communication, Minor**

### **Requirements**

- COMM 330 - Communication, Sports, and America **Credit Hours: 3**
- SPCOM 240 - Sports Media **Credit Hours: 3**
- SPCOM 321 - Social Media and Technology in Sports **Credit Hours: 3**
- SPCOM 401 - Sports Communication Practicum **Credit Hours: 1**
- MEDIA 150 - Introduction to Convergent Media **Credit Hours: 3**

## **Teaching English as a Foreign Language, Minor**

### **Minor Requirements: (19 Hours)**

FREN 211/GERM 211/SPAN 211 or completion of another college course, at or above the intermediate level, taught in a non-native language

- ENGL 361 - Language: Structure and Usage **Credit Hours: 3**
- WRLD 200 - Cross-Cultural Communication **Credit Hours: 3**
- WRLD 250 - Introduction to Second Language Acquisition **Credit Hours: 3**
- WRLD 300 - TEFL Methods and Approaches **Credit Hours: 3**
- WRLD 375 - English for TEFL **Credit Hours: 3**

## **Theatre, Minor**

### **Minor Requirements: (15 Hours)**

- THEA 245 - Technical Production **Credit Hours: 3**
- THEA 275 - Acting I **Credit Hours: 3**

### **Electives:**

- 9 credit hours of Theatre Electives, with at least one 3 credit classes, and at least 3 upper level credits. Projects in Theatre (THEA 103, THEA 203, THEA 303, THEA 403) can only count toward two of these credit hours.

## **Education Licensure**

### **Adolescent/Young Adult: Earth Sciences**

#### **Earth Science Major Requirements: (25-26 Hours in Geology)**

- GEOL 101 - Introduction to Geology **Credit Hours: 4**  
or
- GEOL 110 - Environmental Geology **Credit Hours: 4**
  
- GEOL 104 - Earth History **Credit Hours: 4**
- GEOL 200 - Oceanography **Credit Hours: 3**
- GEOL 220 - Landform Evolution **Credit Hours: 3**
- GEOL 301 - Mineralogy **Credit Hours: 4**
- GEOL 302 - Igneous and Metamorphic Petrology **Credit Hours: 3**
- GEOL 495 - Literature Seminar **Credit Hours: 2**
  
- CHEM 105 - Issues in the Chemical Sciences **Credit Hours: 4**  
or
- CHEM 111 - General Chemistry I **Credit Hours: 4**
  
- GEOG 321 - Weather and Climate **Credit Hours: 3**
  
- PHEN 101 - Conceptual Physics **Credit Hours: 4**

- or
- PHEN 115 - Introductory Physics I **Credit Hours: 4**
- or
- PHEN 121 - Classical Physics I **Credit Hours: 4**
  
- PHEN 150 - Introduction to Astronomy **Credit Hours: 4**

### Select Three From:

- GEOL 303 - Sedimentary Petrology **Credit Hours: 3**
- GEOL 311 - Paleontology **Credit Hours: 3**
- GEOL 313 - Structural Geology **Credit Hours: 3**
  
- GEOL 322 - Sedimentology and Stratigraphy **Credit Hours: 3**
- or
- GEOG 310 - Introduction to Geographic Information Systems **Credit Hours: 3**

### Select One From:

- GEOL 295 - Research Experience **Credit Hours: 1-3**
- GEOL 496 - Senior Research **Credit Hours: 3**

### Select One From:

- MATH 170 - Applied College Algebra **Credit Hours: 3**
- MATH 180 - Precalculus **Credit Hours: 4**
- MATH 190 - Calculus I **Credit Hours: 4**

## Education Licensure

Earth Sciences or Integrated Sciences, grades 7-12. Contact the education department or the education department website for specific course requirements.

## Adolescent/Young Adult: Integrated Language Arts

### English Major Requirements: (30 Hours Not Including 121)

- ENGL 231 - British Literature to 1800 **Credit Hours: 3**
- or
- ENGL 232 - British Literature after 1800 **Credit Hours: 3**
  
- ENGL 233 - American Literature to 1865 **Credit Hours: 3**
- or
- ENGL 234 - American Literature after 1865 **Credit Hours: 3**
  
- ENGL 320 - Principles of Literary Study **Credit Hours: 3**

- ENGL 495 - Seminar **Credit Hours: 3**
- 12 hours at 300-level or above

## Education Licensure

Prepares the student to teach integrated language arts, grades 7-12 (which includes an English major). Contact the education department or the education department website for specific course requirements. You will have one advisor in English and one in Education.

## Adolescent/Young Adult: Integrated Mathematics

### Mathematics Major Requirements: (36 Hours)

- MATH 190 - Calculus I **Credit Hours: 4**
- MATH 200 - Calculus II **Credit Hours: 4**
- MATH 230 - Linear Algebra and Vectors **Credit Hours: 3**
- MATH 240 - Discrete Mathematics I **Credit Hours: 3**
- MATH 250 - Discrete Mathematics II **Credit Hours: 3**
- MATH 310 - Calculus III **Credit Hours: 3**
- MATH 330 - Algebraic Structures **Credit Hours: 4**
- MATH 410 - Analysis **Credit Hours: 4**
- MATH 495 - Mathematics Seminar **Credit Hours: 1**
- CPSC 100 - Introduction to Computer Science **Credit Hours: 3**
- 6 additional hours at the 300-level or above.

## Education Licensure

Integrated math, grades 7-12. Contact the education department or the education department website for specific course requirements.

## Adolescent/Young Adult: Integrated Science - Biology

### Biology Major Requirements: (46 Credit Hours)

- BIOL 111 - Organismal Biology I **Credit Hours: 3**
- BIOL 107 - Biology Laboratory I **Credit Hours: 1**
- BIOL 112 - Organismal Biology II **Credit Hours: 3**
- BIOL 108 - Biology Laboratory II **Credit Hours: 1**
- BIOL 226 - Introduction to Cell and Molecular Biology **Credit Hours: 3**
- BIOL 306 - Genetics **Credit Hours: 4**
- BIOL 308 - General Ecology **Credit Hours: 4**
- BIOL 336 - Cellular Physiology **Credit Hours: 4**
- BIOL 420 - Senior Seminar **Credit Hours: 3** (taken in the Junior or Senior year)
- CHEM 111 - General Chemistry I **Credit Hours: 4**
- CHEM 112 - General Chemistry II **Credit Hours: 4**

- MATH 140 - Practical Statistics **Credit Hours: 3**  
or
- MATH 170 - Applied College Algebra **Credit Hours: 3**  
or
- any math higher than 170

## Electives:

The remaining 12 credit hours can be completed from the following elective courses:

- BIOL 121 - Anatomy & Physiology I **Credit Hours: 4**
- BIOL 122 - Anatomy & Physiology II **Credit Hours: 4**
- BIOL 213 - Functional Histology **Credit Hours: 4**
- BIOL 221 - Vascular Plant Systematics **Credit Hours: 4**
- BIOL 232 - Vertebrate Natural History **Credit Hours: 4**
- BIOL 240 - Animal Behavior **Credit Hours: 3**
- BIOL 304 - Evolution **Credit Hours: 4**
- BIOL 312 - Microbiology **Credit Hours: 4**
- BIOL 321 - Advanced Botany **Credit Hours: 4**
- BIOL 346 - Pathophysiology **Credit Hours: 3**
- BIOL 368 - Fundamental Neuroscience **Credit Hours: 4**
- BIOL 373 - Comparative Vertebrate Anatomy **Credit Hours: 4**
- BIOL 375 - Molecular Biology **Credit Hours: 4**
- BIOL 385 - Topics in Biology **Credit Hours: 1-4**
- BIOL 421 - Biological Research **Credit Hours: 2**
- BIOL 422 - Biological Research **Credit Hours: 2**
- CVSC 331 - Conservation Biology **Credit Hours: 4**
- NRSC 386 - Neuropharmacology **Credit Hours: 4**

## One Course from the Following List

At most, one course from the following list will count as credit toward biology major electives:

- EVSC 121 - Environmental Issues **Credit Hours: 1**
- EVSC 421 - Topics in Environmental Science **Credit Hours: 1**
- MBIO 211 - Topics in Molecular Biology **Credit Hours: 1**
- MBIO 411 - Topics in Molecular Biology **Credit Hours: 1**
- CVSC 231 - Conservation Science Discussion **Credit Hours: 1**
  
- CVSC 431 - Topics in Conservation Science **Credit Hours: 1**  
or
- NRSC 201 - Topics in Neuroscience **Credit Hours: 1**

## Gen Ed Issues Courses

Gen Ed issues courses (the 106 group) count as two credit hours toward the electives in the major.

BIOL 305 cannot be counted as credit toward the biology major.

## Education Licensure

Life Sciences or Integrated Science, grades 7-12. Contact the education department or the education department website for specific course requirements.

## Adolescent/Young Adult: Integrated Science - Chemistry

### Chemistry Major Requirements: (39-40 Hours in Chemistry Including)

- CHEM 111 - General Chemistry I **Credit Hours: 4**
- CHEM 112 - General Chemistry II **Credit Hours: 4**
- CHEM 213 - Organic Chemistry I **Credit Hours: 4**
- CHEM 214 - Organic Chemistry II **Credit Hours: 4**
- CHEM 230 - Foundational Inorganic Chemistry **Credit Hours: 3**
- CHEM 250 - Professional Development for Chemists **Credit Hours: 1**
- CHEM 315 - Physical Chemistry I **Credit Hours: 4**
- CHEM 335 - Analytical Chemistry **Credit Hours: 4**
- CHEM 355 - Advanced Laboratory in Chemistry **Credit Hours: 3**
- CHEM 454 - Chemistry Seminar and Literature Research **Credit Hours: 2**
- CHEM 455 - Chemistry Seminar and Laboratory Research **Credit Hours: 4**
- MATH 190 - Calculus I **Credit Hours: 4**
- MATH 200 - Calculus II **Credit Hours: 4**
- PHEN 121 - Classical Physics I **Credit Hours: 4**
- PHEN 122 - Classical Physics II **Credit Hours: 4**

### Chemistry Electives:

at least one course from

- CHEM 316 - Physical Chemistry II **Credit Hours: 3**
- CHEM 418 - Biochemistry I **Credit Hours: 4**
- CHEM 419 - Biochemistry II **Credit Hours: 3**
- CHEM 425 - Advanced Inorganic Chemistry **Credit Hours: 4**
- CHEM 441 - Forensic Chemistry Laboratory **Credit Hours: 3**
- CHEM 445 - Topics in Modern Chemistry **Credit Hours: 1-3**

### Recommended Electives:

- MATH 140 - Practical Statistics **Credit Hours: 3**
- CPSC 111 - Computer Science I **Credit Hours: 3**
- a world language

### Tracks

- American Chemical Society certification
- American Chemical Society Certification - Biochemistry Track
- Pre-Health Track
- Pre-Pharmacy Track
- Forensic Chemistry Track
- Neurochemistry Track
- [3+1] Major

## Education Licensure

Physical Sciences: Chemistry or Integrated Science. Contact the chemistry department or education department for specific course requirements.

## Adolescent/Young Adult: Integrated Science - Earth Science

### Earth Science Major Requirements: (25-26 Hours in Geology)

- GEOL 101 - Introduction to Geology **Credit Hours: 4**  
or
- GEOL 110 - Environmental Geology **Credit Hours: 4**
  
- GEOL 104 - Earth History **Credit Hours: 4**
- GEOL 200 - Oceanography **Credit Hours: 3**
- GEOL 220 - Landform Evolution **Credit Hours: 3**
- GEOL 301 - Mineralogy **Credit Hours: 4**
- GEOL 302 - Igneous and Metamorphic Petrology **Credit Hours: 3**
- GEOL 495 - Literature Seminar **Credit Hours: 2**
  
- CHEM 105 - Issues in the Chemical Sciences **Credit Hours: 4**  
or
- CHEM 111 - General Chemistry I **Credit Hours: 4**
  
- GEOG 321 - Weather and Climate **Credit Hours: 3**
  
- PHEN 101 - Conceptual Physics **Credit Hours: 4**  
or
- PHEN 115 - Introductory Physics I **Credit Hours: 4**  
or
- PHEN 121 - Classical Physics I **Credit Hours: 4**
  
- PHEN 150 - Introduction to Astronomy **Credit Hours: 4**

### Select Three From:

- GEOL 303 - Sedimentary Petrology **Credit Hours: 3**
- GEOL 311 - Paleontology **Credit Hours: 3**
- GEOL 313 - Structural Geology **Credit Hours: 3**



- GEOL 322 - Sedimentology and Stratigraphy **Credit Hours: 3**  
or
- GEOG 310 - Introduction to Geographic Information Systems **Credit Hours: 3**

### Select One From:

- GEOL 295 - Research Experience **Credit Hours: 1-3**
- GEOL 496 - Senior Research **Credit Hours: 3**

### Select One From:

- MATH 170 - Applied College Algebra **Credit Hours: 3**
- MATH 180 - Precalculus **Credit Hours: 4**
- MATH 190 - Calculus I **Credit Hours: 4**

## Education Licensure

Earth Sciences or Integrated Sciences, grades 7-12. Contact the education department or the education department website for specific course requirements.

## Adolescent/Young Adult: Integrated Science - Geology

### Geology Major Requirements: (35 Hours in Geology)

- GEOL 101 - Introduction to Geology **Credit Hours: 4**  
or
- GEOL 110 - Environmental Geology **Credit Hours: 4**
- GEOL 104 - Earth History **Credit Hours: 4**
- GEOL 301 - Mineralogy **Credit Hours: 4**
- GEOL 302 - Igneous and Metamorphic Petrology **Credit Hours: 3**
- GEOL 303 - Sedimentary Petrology **Credit Hours: 3**
- GEOL 313 - Structural Geology **Credit Hours: 3**
- GEOL 322 - Sedimentology and Stratigraphy **Credit Hours: 3**
- GEOL 495 - Literature Seminar **Credit Hours: 2**
- GEOL 496 - Senior Research **Credit Hours: 3**
- CHEM 111 - General Chemistry I **Credit Hours: 4**
- CHEM 112 - General Chemistry II **Credit Hours: 4**
- GEOG 310 - Introduction to Geographic Information Systems **Credit Hours: 3**
- MATH 170 - Applied College Algebra **Credit Hours: 3**  
or
- MATH 180 - Precalculus **Credit Hours: 4**  
or
- MATH 190 - Calculus I **Credit Hours: 4**

## Two From Among

- GEOL 200 - Oceanography **Credit Hours: 3**
- GEOL 220 - Landform Evolution **Credit Hours: 3**
- GEOL 311 - Paleontology **Credit Hours: 3**

## Physics Requirement

Take one group: PHEN 115/PHEN 116 or PHEN 121/122

- PHEN 115 - Introductory Physics I **Credit Hours: 4**  
and
- PHEN 116 - Introductory Physics II **Credit Hours: 4**  
or
- PHEN 121 - Classical Physics I **Credit Hours: 4**  
and
- PHEN 122 - Classical Physics II **Credit Hours: 4**

## A Six Credit Summer Field Geology Course (Approved by the Department)

### Recommended for Graduate School:

Calculus and 2 courses in each of physics and engineering (PHEN), biology (BIOL), world languages (FREN, GERM, SPAN).

## Education Licensure

Earth Sciences or Integrated Sciences, grades 7-12. Contact the education department or the education department website for specific course requirements.

## Adolescent/Young Adult: Integrated Science - Physics

### Physics Education Major Requirements: (102 Hours)

- PHEN 110 - Introduction to Physics and Engineering **Credit Hours: 2**
- PHEN 121 - Classical Physics I **Credit Hours: 4**
- PHEN 122 - Classical Physics II **Credit Hours: 4**
- PHEN 203 - Modern Physics **Credit Hours: 4**
- PHEN 210 - Statics **Credit Hours: 4**
- PHEN 235 - Electrical Circuit Analysis and Design **Credit Hours: 4**
- PHEN 310 - Optics **Credit Hours: 4**
- PHEN 492 - Introduction to Physics Education Senior Project **Credit Hours: 1**
- PHEN 497 - Physics Education Senior Project **Credit Hours: 3**
- CHEM 111 - General Chemistry I **Credit Hours: 4**
- CHEM 112 - General Chemistry II **Credit Hours: 4**
- CHEM 200 - Laboratory Safety **Credit Hours: 1**

- CPSC 100 - Introduction to Computer Science **Credit Hours: 3**
- EDUC 110 - Introduction to Education **Credit Hours: 1**
- EDUC 112 - Educational Implications of Diversity **Credit Hours: 3**
- EDUC 313 - Curriculum and Instruction for the Adolescent **Credit Hours: 3**
- EDUC 330 - Serving Individuals with Exceptionalities **Credit Hours: 3**
- EDUC 335 - Educational Technology **Credit Hours: 3**
- EDUC 341 - Assessment in Education **Credit Hours: 3**
- EDUC 394 - Integrated Science Methods for the Adolescent **Credit Hours: 3**
- EDUC 413 - Reading in the Content Areas **Credit Hours: 3**
- EDUC 419 - Co-teaching and Collaboration in Education **Credit Hours: 2**
- EDUC 420 - Proactive Approaches to Classroom Management and Support **Credit Hours: 2**
- EDUC 451 - Student Teaching in the Secondary School **Credit Hours: 9**
- EDUC 461 - Student Teaching Seminar **Credit Hours: 1**
- EDUC 466 - Professional Practices in Secondary Schools **Credit Hours: 2**
- MATH 190 - Calculus I **Credit Hours: 4**
- MATH 200 - Calculus II **Credit Hours: 4**
- MATH 230 - Linear Algebra and Vectors **Credit Hours: 3**
- MATH 310 - Calculus III **Credit Hours: 3**
- PSYC 101 - Introduction to Psychology **Credit Hours: 3**
- PSYC 308 - Adolescence and Youth **Credit Hours: 3**

## Education Licensure

The Ohio Assessments for Educators (OAE) test in physics must be passed prior to admission into student teaching.

Students must declare co-advisors from the Physics and Engineering and Education Departments to ensure that academic and teaching licensure requirements are met

## Adolescent/Young Adult: Integrated Social Studies

### History Major Requirements: (33 Hours)

- HIST 300 - Historical Research Methods **Credit Hours: 3**
- HIST 420 - Readings in History **Credit Hours: 3**
- HIST 460 - History Research Seminar **Credit Hours: 3**

### 9 Hours From

- HIST 105 - United States History to 1877 **Credit Hours: 3**
- HIST 106 - United States History since 1877 **Credit Hours: 3**
- HIST 110 - Pre-Modern World History **Credit Hours: 3**
- HIST 111 - The Emergence of the Modern World I **Credit Hours: 3**
- HIST 112 - The Emergence of the Modern World II **Credit Hours: 3**

### Electives: One Course From Each Grouping

## European

- HIST 310 - Ancient History **Credit Hours: 3**
- HIST 318 - Nineteenth Century Europe **Credit Hours: 3**
- HIST 320 - Twentieth Century Europe **Credit Hours: 3**
- HIST 322 - Gender and History **Credit Hours: 3**
- HIST 345 - The Second World War **Credit Hours: 3**

## World

- HIST 344 - East Asian History to 1800 **Credit Hours: 3**
- HIST 346 - Southeast Asian History **Credit Hours: 3**
- HIST 347 - Modern China **Credit Hours: 3**
- HIST 348 - The Western Impact on Modern Japan **Credit Hours: 3**
- HIST 350 - Colonial Latin America **Credit Hours: 3**
- HIST 351 - Modern Latin America **Credit Hours: 3**
- HIST 352 - Latin America Film and History **Credit Hours: 4**
- HIST 353 - History of Mexico, Pre-Columbian to Present **Credit Hours: 3**
- HIST 356 - History of Modern Africa **Credit Hours: 3**

## American

- HIST 372 - Empires of North America **Credit Hours: 3**
- HIST 374 - Ohio History **Credit Hours: 3**
- HIST 375 - Nearby History **Credit Hours: 4**
- HIST 376 - The American Revolution **Credit Hours: 3**
- HIST 378 - Gender and Sexuality in American History **Credit Hours: 3**
- HIST 379 - Youth in Modern America **Credit Hours: 3**
- HIST 380 - The History of the American Dream **Credit Hours: 3**
- HIST 381 - 1950s America **Credit Hours: 3**
- HIST 382 - 1960s and American Film **Credit Hours: 4**
- HIST 385 - American Environmental History **Credit Hours: 3**

## Remainder of Required Hours From Departmental Offerings

## Education Licensure

Integrated social studies, grades 7-12 (with a history major). Contact the education department or education department website for specific course requirements.

## **Adolescent/Young Adult: Life Sciences**

### Biology Major Requirements: (46 Credit Hours)

- BIOL 111 - Organismal Biology I **Credit Hours: 3**

- BIOL 107 - Biology Laboratory I **Credit Hours: 1**
- BIOL 112 - Organismal Biology II **Credit Hours: 3**
- BIOL 108 - Biology Laboratory II **Credit Hours: 1**
- BIOL 226 - Introduction to Cell and Molecular Biology **Credit Hours: 3**
- BIOL 306 - Genetics **Credit Hours: 4**
- BIOL 308 - General Ecology **Credit Hours: 4**
- BIOL 336 - Cellular Physiology **Credit Hours: 4**
- BIOL 420 - Senior Seminar **Credit Hours: 3** (taken in the Junior or Senior year)
- CHEM 111 - General Chemistry I **Credit Hours: 4**
- CHEM 112 - General Chemistry II **Credit Hours: 4**
  
- MATH 140 - Practical Statistics **Credit Hours: 3**  
or
- MATH 170 - Applied College Algebra **Credit Hours: 3**  
or
- any math higher than 170

## Electives:

The remaining 12 credit hours can be completed from the following elective courses:

- BIOL 121 - Anatomy & Physiology I **Credit Hours: 4**
- BIOL 122 - Anatomy & Physiology II **Credit Hours: 4**
- BIOL 213 - Functional Histology **Credit Hours: 4**
- BIOL 221 - Vascular Plant Systematics **Credit Hours: 4**
- BIOL 232 - Vertebrate Natural History **Credit Hours: 4**
- BIOL 240 - Animal Behavior **Credit Hours: 3**
- BIOL 304 - Evolution **Credit Hours: 4**
- BIOL 312 - Microbiology **Credit Hours: 4**
- BIOL 321 - Advanced Botany **Credit Hours: 4**
- BIOL 346 - Pathophysiology **Credit Hours: 3**
- BIOL 368 - Fundamental Neuroscience **Credit Hours: 4**
- BIOL 373 - Comparative Vertebrate Anatomy **Credit Hours: 4**
- BIOL 375 - Molecular Biology **Credit Hours: 4**
- BIOL 385 - Topics in Biology **Credit Hours: 1-4**
- BIOL 421 - Biological Research **Credit Hours: 2**
- BIOL 422 - Biological Research **Credit Hours: 2**
- CVSC 331 - Conservation Biology **Credit Hours: 4**
- NRSC 386 - Neuropharmacology **Credit Hours: 4**

## One Course from the Following List

At most, one course from the following list will count as credit toward biology major electives:

- EVSC 121 - Environmental Issues **Credit Hours: 1**
- EVSC 421 - Topics in Environmental Science **Credit Hours: 1**
- MBIO 211 - Topics in Molecular Biology **Credit Hours: 1**
- MBIO 411 - Topics in Molecular Biology **Credit Hours: 1**

- CVSC 231 - Conservation Science Discussion **Credit Hours: 1**
- CVSC 431 - Topics in Conservation Science **Credit Hours: 1**  
or
- NRSC 201 - Topics in Neuroscience **Credit Hours: 1**

## Gen Ed Issues Courses

Gen Ed issues courses (the 106 group) count as two credit hours toward the electives in the major.

BIOL 305 cannot be counted as credit toward the biology major.

## Teacher Licensure

Life Sciences or Integrated Science, grades 7-12. Contact the education department or the education department website for specific course requirements.

## Adolescent/Young Adult: Physical Sciences: Chemistry

### Chemistry Major Requirements: (39-40 Hours in Chemistry Including)

- CHEM 111 - General Chemistry I **Credit Hours: 4**
- CHEM 112 - General Chemistry II **Credit Hours: 4**
- CHEM 213 - Organic Chemistry I **Credit Hours: 4**
- CHEM 214 - Organic Chemistry II **Credit Hours: 4**
- CHEM 230 - Foundational Inorganic Chemistry **Credit Hours: 3**
- CHEM 250 - Professional Development for Chemists **Credit Hours: 1**
- CHEM 315 - Physical Chemistry I **Credit Hours: 4**
- CHEM 335 - Analytical Chemistry **Credit Hours: 4**
- CHEM 355 - Advanced Laboratory in Chemistry **Credit Hours: 3**
- CHEM 454 - Chemistry Seminar and Literature Research **Credit Hours: 2**
- CHEM 455 - Chemistry Seminar and Laboratory Research **Credit Hours: 4**
- MATH 190 - Calculus I **Credit Hours: 4**
- MATH 200 - Calculus II **Credit Hours: 4**
- PHEN 121 - Classical Physics I **Credit Hours: 4**
- PHEN 122 - Classical Physics II **Credit Hours: 4**

### Chemistry Electives:

at least one course from

- CHEM 316 - Physical Chemistry II **Credit Hours: 3**
- CHEM 418 - Biochemistry I **Credit Hours: 4**
- CHEM 419 - Biochemistry II **Credit Hours: 3**
- CHEM 425 - Advanced Inorganic Chemistry **Credit Hours: 4**
- CHEM 441 - Forensic Chemistry Laboratory **Credit Hours: 3**
- CHEM 445 - Topics in Modern Chemistry **Credit Hours: 1-3**

## Recommended Electives:

- MATH 140 - Practical Statistics **Credit Hours: 3**
- CPSC 111 - Computer Science I **Credit Hours: 3**
- a world language

## Tracks

- American Chemical Society certification
- American Chemical Society Certification - Biochemistry Track
- Pre-Health Track
- Pre-Pharmacy Track
- Forensic Chemistry Track
- Neurochemistry Track
- [3+1] Major

## Education Licensure

Physical Sciences: Chemistry or Integrated Science. Contact the chemistry department or education department for specific course requirements.

## Adolescent/Young Adult: Physical Sciences: Physics

### Physics Education Major Requirements: (102 Hours)

- PHEN 110 - Introduction to Physics and Engineering **Credit Hours: 2**
- PHEN 121 - Classical Physics I **Credit Hours: 4**
- PHEN 122 - Classical Physics II **Credit Hours: 4**
- PHEN 203 - Modern Physics **Credit Hours: 4**
- PHEN 210 - Statics **Credit Hours: 4**
- PHEN 235 - Electrical Circuit Analysis and Design **Credit Hours: 4**
- PHEN 310 - Optics **Credit Hours: 4**
- PHEN 492 - Introduction to Physics Education Senior Project **Credit Hours: 1**
- PHEN 497 - Physics Education Senior Project **Credit Hours: 3**
- CHEM 111 - General Chemistry I **Credit Hours: 4**
- CHEM 112 - General Chemistry II **Credit Hours: 4**
- CHEM 200 - Laboratory Safety **Credit Hours: 1**
- CPSC 100 - Introduction to Computer Science **Credit Hours: 3**
- EDUC 110 - Introduction to Education **Credit Hours: 1**
- EDUC 112 - Educational Implications of Diversity **Credit Hours: 3**
- EDUC 313 - Curriculum and Instruction for the Adolescent **Credit Hours: 3**
- EDUC 330 - Serving Individuals with Exceptionalities **Credit Hours: 3**
- EDUC 335 - Educational Technology **Credit Hours: 3**
- EDUC 341 - Assessment in Education **Credit Hours: 3**
- EDUC 394 - Integrated Science Methods for the Adolescent **Credit Hours: 3**
- EDUC 413 - Reading in the Content Areas **Credit Hours: 3**

- EDUC 419 - Co-teaching and Collaboration in Education **Credit Hours: 2**
- EDUC 420 - Proactive Approaches to Classroom Management and Support **Credit Hours: 2**
- EDUC 451 - Student Teaching in the Secondary School **Credit Hours: 9**
- EDUC 461 - Student Teaching Seminar **Credit Hours: 1**
- EDUC 466 - Professional Practices in Secondary Schools **Credit Hours: 2**
- MATH 190 - Calculus I **Credit Hours: 4**
- MATH 200 - Calculus II **Credit Hours: 4**
- MATH 230 - Linear Algebra and Vectors **Credit Hours: 3**
- MATH 310 - Calculus III **Credit Hours: 3**
- PSYC 101 - Introduction to Psychology **Credit Hours: 3**
- PSYC 308 - Adolescence and Youth **Credit Hours: 3**

## Education Licensure

The Ohio Assessments for Educators (OAE) test in physics must be passed prior to admission into student teaching.

Students must declare co-advisors from the Physics and Engineering and Education Departments to ensure that academic and teaching licensure requirements are met

## Multi-Age: Art Education

### Art Major Requirements: (38 Hours)

- One art course elective
- Portfolio for acceptance into major program
- One to three pieces may be retained as part of the student section of the Permanent Art Collection

### Foundation year:

- ART 112 - Drawing I **Credit Hours: 3**
- ART 120 - Three-Dimensional Design **Credit Hours: 3**
- ART 151 - Introduction to Art **Credit Hours: 3**
- ART 170 - Graphic Design I **Credit Hours: 3**

### Additional Requirements:

- ART 121 - Ceramics I **Credit Hours: 3**
- ART 131 - Sculpture I **Credit Hours: 3**
- ART 212 - Drawing II **Credit Hours: 3**
- ART 241 - Painting I **Credit Hours: 3**
- ART 490 - Senior Seminar and Capstone Assessment **Credit Hours: 2**

### Two Courses From

- ART 350 - Art History I **Credit Hours: 3**
- ART 351 - Art History II **Credit Hours: 3**



- ART 352 - Art History III **Credit Hours: 3**

## One Course From

- ART 321 - Ceramics III **Credit Hours: 3**
- ART 331 - Sculpture III **Credit Hours: 3**
- ART 370 - Graphic Design III **Credit Hours: 3**
- ART 412 - Life Drawing **Credit Hours: 3**  
or
- ART 441 - Painting III **Credit Hours: 3**

## Completion of Junior Year Review Prior to the Senior Capstone Review

### Capstone Experience Requirements:

1. Electronic Portfolio development
2. Art-related writings
3. Development of interdisciplinary art
4. Development of inter-cultural diversity art
5. Development of technology related to art

## Education Licensure

Prepares students to teach Visual Arts, grades 7-12. Contact the education department or the education department website for specific course requirements. You will have one advisor in Art and one in Education.

## Multi-Age: Music Education

### Music Education Major Requirements: (76-77 Hours)

- MUSC 111 - Materials of Music I **Credit Hours: 4**
- MUSC 112 - Materials of Music II **Credit Hours: 4**
- MUSC 115 - Aural Skills I **Credit Hours: 1**
- MUSC 116 - Aural Skills II **Credit Hours: 1**
- MUSC 121 - Introduction to Music **Credit Hours: 3**
- MUSC 140 - Diction for Singing **Credit Hours: 1** (for students with a vocal concentration)
- MUSC 181 - Introduction to Music Education **Credit Hours: 2**
- MUSC 211 - Materials of Music III **Credit Hours: 4**
- MUSC 212 - Materials of Music IV **Credit Hours: 4**
- MUSC 215 - Aural Skills III **Credit Hours: 1**
- MUSC 216 - Aural Skills IV **Credit Hours: 1**
- MUSC 281 - Woodwind Methods and Pedagogy **Credit Hours: 2**
- MUSC 282 - String Methods and Pedagogy **Credit Hours: 2**
- MUSC 283 - Brass and Percussion Methods and Pedagogy **Credit Hours: 2**
- MUSC 284 - Voice Pedagogy and Practicum **Credit Hours: 2**

- MUSC 295 - Piano Proficiency **Credit Hours: 0**
- MUSC 310 - Excursions in World Music **Credit Hours: 3**
- MUSC 315 - Instrumentation **Credit Hours: 2**
- MUSC 321 - Western Music History I **Credit Hours: 3**
- MUSC 322 - Music History II **Credit Hours: 3**
- MUSC 371 - Conducting I **Credit Hours: 2**
- MUSC 372 - Conducting II **Credit Hours: 2**
- MUSC 382 - Music Education: Teaching General Music **Credit Hours: 2**
- MUSC 383 - Music Education: Teaching Vocal Music **Credit Hours: 2**
- MUSC 384 - Music Education: Teaching Instrumental Music **Credit Hours: 2**
- MUSC 401 - Senior Recital **Credit Hours: 0**
- MUSC 445 - Senior Seminar **Credit Hours: 1**
- MUSC 482 - Music Education: Professional Semester in Elementary Education **Credit Hours: 5**
- MUSC 483 - Music Education: Professional Semester in Secondary Education **Credit Hours: 5**
- EDUC 112 - Educational Implications of Diversity **Credit Hours: 3**
- EDUC 215 - Educational Psychology **Credit Hours: 3**
- EDUC 314 - Multi-Age Curriculum and Instruction **Credit Hours: 3**
- EDUC 330 - Serving Individuals with Exceptionalities **Credit Hours: 3**
- EDUC 335 - Educational Technology **Credit Hours: 3**
- EDUC 341 - Assessment in Education **Credit Hours: 3**
- EDUC 413 - Reading in the Content Areas **Credit Hours: 3**
- EDUC 419 - Co-teaching and Collaboration in Education **Credit Hours: 2**
- EDUC 420 - Proactive Approaches to Classroom Management and Support **Credit Hours: 2**
- EDUC 461 - Student Teaching Seminar **Credit Hours: 1**
- EDUC 466 - Professional Practices in Secondary Schools **Credit Hours: 2**

## 6 Semesters of the Appropriate Major Ensemble

6 semesters of the appropriate major ensemble and one semester in an ensemble of a medium dissimilar from the student's primary area of applied study

## 7 Hours of Applied Study in One Area

## 6 Semesters Of

- MUSC 100 - Performance Seminar **Credit Hours: 0**
- MUSC 300 - Performance Seminar **Credit Hours: 0**

## Junior Qualifying Exam

(assessed after 212)

## Multi-Age: Spanish

Spanish Major Requirements: (33 hours beyond 112)

Study Abroad, SPAN 310, SPAN 431, one course in another foreign language at the appropriate level. Enrollment in Spanish Table (SPAN 251/SPAN 291) expected every semester, required when not enrolled in a Spanish course; 2 hours applied to major or minor. No more than one upper-level Spanish courses taught in English is allowed to count toward major requirements.

## Pre-Professional Programs

### Pre-Dentistry

#### Pre-Dentistry Requirements:

##### First Year Fall Semester

- CHEM 111 - General Chemistry I **Credit Hours: 4**
- MATH 190 - Calculus I **Credit Hours: 4**
- BIOL 111 - Organismal Biology I **Credit Hours: 3**
- BIOL 107 - Biology Laboratory I **Credit Hours: 1**
- ENGL 121 - Composition **Credit Hours: 3**

##### First Year Spring Semester

- CHEM 112 - General Chemistry II **Credit Hours: 4**
- MATH 200 - Calculus II **Credit Hours: 4**
- BIOL 112 - Organismal Biology II **Credit Hours: 3**
- Social Sciences course

##### Second Year Fall Semester

- CHEM 213 - Organic Chemistry I **Credit Hours: 4**
- PHEN 121 - Classical Physics I **Credit Hours: 4**
- BIOL 226 - Introduction to Cell and Molecular Biology **Credit Hours: 3**
- English/Social Sciences course

##### Second Year Spring Semester

- CHEM 214 - Organic Chemistry II **Credit Hours: 4**
- PHEN 122 - Classical Physics II **Credit Hours: 4**
- BIOL 312 - Microbiology **Credit Hours: 4**
- English/Social Sciences course

##### Third Year Fall Semester

- BIOL 121 - Anatomy & Physiology I **Credit Hours: 4**
  - CHEM 418 - Biochemistry I **Credit Hours: 4**
- or

- CHEM 419 - Biochemistry II **Credit Hours: 3**

### Third Year Spring Semester

- BIOL 122 - Anatomy & Physiology II **Credit Hours: 4**
- MATH 140 - Practical Statistics **Credit Hours: 3**

### Upper-level Science Courses

The following upper-level science courses are highly recommended, and can be taken as offered, starting in the Spring Semester of the Second Year. (Many of these courses are alternate year courses.):

- CHEM 418 - Biochemistry I **Credit Hours: 4**
- CHEM 419 - Biochemistry II **Credit Hours: 3**
- BIOL 213 - Functional Histology **Credit Hours: 4**
- Courses in Ceramics or Sculpture, and Business &/or Marketing courses are also recommended.

## Pre-Law

### Pre-Law Minor Requirements: (22 Hours)

Only two courses from any given discipline can count toward completion of the minor.

### Pre-Law Core Requirements: (7 Hours)

- IDIS 360 - Pre-Law **Credit Hours: 1**
- LIBR 220 - Beyond Google: Research Skills and Resources **Credit Hours: 3**
- PHIL 202 - Logic and Critical Thinking **Credit Hours: 3**

### Distribution: (15 Hours)

One course from each category below:

#### Analytic/Problem-Solving Skills:

- COMM 335 - Small Group Communication **Credit Hours: 3**
- ENGL 361 - Language: Structure and Usage **Credit Hours: 3**
- POLS 312 - Constitutional Law Governmental Powers **Credit Hours: 3**
- POLS 317 - Constitutional Law II: Civil Rights and Liberties **Credit Hours: 3**

#### Critical Reading Abilities:

- ENGL 320 - Principles of Literary Study **Credit Hours: 3**
- ENGL 385 - Topics in Literature, Film, and Culture **Credit Hours: 3**
- HIST 372 - Empires of North America **Credit Hours: 3**

- PHIL 325 - Western Philosophy: The Ancients **Credit Hours: 3**
- THEA 352 - Dramatic Literature **Credit Hours: 3**

### Writing Skills:

- ENGL 201 - Advanced Writing and Professional Development **Credit Hours: 3**
- ENGL 202 - Business Writing **Credit Hours: 3**
- HIST 380 - The History of the American Dream **Credit Hours: 3**
- PHIL 343 - Social and Political Philosophy **Credit Hours: 3**  
or
- POLS 343 - Social and Political Philosophy **Credit Hours: 3**  
or
- SOCI 335 - Social and Political Philosophy **Credit Hours: 3**
- SOCI 320 - Racial and Cultural Minorities **Credit Hours: 3**

### Oral Communication:

- BUSI 416 - Professional Selling **Credit Hours: 3**
- COMM 205 - Professional Speaking **Credit Hours: 3**
- COMM 260 - Oral Interpretation of Literature **Credit Hours: 3**
- COMM 315 - Argumentation **Credit Hours: 3**
- COMM 345 - Interviewing **Credit Hours: 3**
- THEA 275 - Acting I **Credit Hours: 3**
- THEA 316 - Improvisation **Credit Hours: 3**

### Law and Society:

- BUSI 360 - Business Law **Credit Hours: 3**
- MEDIA 420 - Media Law **Credit Hours: 3**
- POLS 323 - Administrative Law **Credit Hours: 3**
- PSYC 406 - Psychology of Law **Credit Hours: 3**

## Pre-Med

### Pre-Med Requirements:

#### First Year Fall Semester Courses

- CHEM 111 - General Chemistry I **Credit Hours: 4**
- MATH 190 - Calculus I **Credit Hours: 4**
- BIOL 111 - Organismal Biology I **Credit Hours: 3** (if Bio major also)
- ENGL 121 - Composition **Credit Hours: 3**

#### First Year Spring Semester Courses

- CHEM 112 - General Chemistry II **Credit Hours: 4**
- MATH 200 - Calculus II **Credit Hours: 4**
- BIOL 112 - Organismal Biology II **Credit Hours: 3**
- PSYC 101 - Introduction to Psychology **Credit Hours: 3**

## Second Year Fall Semester Courses

- CHEM 213 - Organic Chemistry I **Credit Hours: 4**
- BIOL 226 - Introduction to Cell and Molecular Biology **Credit Hours: 3**
- PHEN 121 - Classical Physics I **Credit Hours: 4**
- English/Social Sciences Course

## Second Year Spring Semester Courses

- CHEM 214 - Organic Chemistry II **Credit Hours: 4**
- PHEN 122 - Classical Physics II **Credit Hours: 4**
- English/Social Science course

## Third Year Fall Semester Courses

- CHEM 418 - Biochemistry I **Credit Hours: 4**  
or
- CHEM 419 - Biochemistry II **Credit Hours: 3**
- Philosophy/Ethics course

## Third Year Spring Semester Courses

- Philosophy/Ethics course

## Upper-level science courses

The following upper-level science courses are highly recommended, and can be taken as offered, starting in the Spring Semester of the Second Year. (Many of these courses are alternate year courses):

- CHEM 418 - Biochemistry I **Credit Hours: 4**  
or
  - CHEM 419 - Biochemistry II **Credit Hours: 3**
  - BIOL 306 - Genetics **Credit Hours: 4**
  - BIOL 312 - Microbiology **Credit Hours: 4**
  - Philosophy & Ethics courses \*
- A Statistics course and Intro to Sociology are also recommended**

## Pre-Occupational Therapy

You must complete a major in addition to each schools' pre-requisite courses. Many students choose a major that requires courses that are part of the list of pre-requisites.

Be sure to examine the specific pre-requisites for the each school to which you plan to apply. The following are common courses listed as pre-requisites for several Clinical Degree in Occupational Therapy Programs.

## Pre-Occupational Therapy Requirements:

### common courses

- BIOL 111 - Organismal Biology I **Credit Hours: 3** And
- BIOL 107 - Biology Laboratory I **Credit Hours: 1**
  
- BIOL 112 - Organismal Biology II **Credit Hours: 3** And
- BIOL 108 - Biology Laboratory II **Credit Hours: 1**
  
- BIOL 121 - Anatomy & Physiology I **Credit Hours: 4** And
- BIOL 122 - Anatomy & Physiology II **Credit Hours: 4**
  
- \* For Cleveland State: BIOL 346 - Pathophysiology & BIOL 368 - Fundamental Neuroscience
  
- CHEM 111 - General Chemistry I **Credit Hours: 4** And
- CHEM 112 - General Chemistry II **Credit Hours: 4**
  
- PSYC 101 - Introduction to Psychology **Credit Hours: 3**
  
- PSYC 232 - Behavioral Statistics **Credit Hours: 3**  
or
- MATH 140 - Practical Statistics **Credit Hours: 3**
  
- PSYC 363 - Abnormal Psychology **Credit Hours: 3**
- \* For Cleveland State: PSYC 208 - Lifespan Development
- SOCI 101 - The Sociological Perspective **Credit Hours: 3**
- ENGL 121 - Composition **Credit Hours: 3**
  
- ENGL 201 - Advanced Writing and Professional Development **Credit Hours: 3**  
or
- ENGL 202 - Business Writing **Credit Hours: 3**
  
- HLSC 110 - Medical Terminology I **Credit Hours: 1** And
- HLSC 111 - Medical Terminology II **Credit Hours: 1**

## Recommended Courses:

Advanced Physiology of Exercise, Kinesiology, Sports Medicine

It is recommended to also have 40 hours of observation.

## Job Shadowing Experiences

- Altmann West, Massillon, OH
- Genesis Center for Occupational & Outpatient Rehabilitation (COOR), Zanesville, OH
- Cleveland Clinic, Cleveland, OH
- Concorde Kids, Canton, OH
- Kettering Health Network, Dayton, OH and surrounding areas

and more...

## Pre-Optometry

### Pre-Optometry Requirements:

You must complete a major in addition to each schools' pre-requisite courses. Many students choose a major that requires courses that are part of the list of pre-requisites.

Be sure to examine the specific pre-requisites for the each school to which you plan to apply.

- BIOL 111 - Organismal Biology I **Credit Hours: 3** with labs And
- BIOL 107 - Biology Laboratory I **Credit Hours: 1** with labs
  
- BIOL 112 - Organismal Biology II **Credit Hours: 3** with labs And
- BIOL 107 - Biology Laboratory I **Credit Hours: 1** with labs
  
- CHEM 111 - General Chemistry I **Credit Hours: 4** with labs And
- CHEM 112 - General Chemistry II **Credit Hours: 4** with labs
  
- CHEM 213 - Organic Chemistry I **Credit Hours: 4** with labs And
- CHEM 214 - Organic Chemistry II **Credit Hours: 4** with labs
  
- \*For Pennsylvania College of Optometry: 1 semester Organic Chemistry
  
- CHEM 418 - Biochemistry I **Credit Hours: 4** (this is required for Ohio State University) And
- CHEM 419 - Biochemistry II **Credit Hours: 3** (this is required for Ohio State University)
  
- \*For Pennsylvania College of Optometry: 1 semester of Biochemistry OR 1 semester Molecular Biology
  
- PHEN 121 - Classical Physics I **Credit Hours: 4** with labs And
- PHEN 122 - Classical Physics II **Credit Hours: 4** with labs
  
- BIOL 312 - Microbiology **Credit Hours: 4** with labs
- MATH 190 - Calculus I **Credit Hours: 4** (MATH 190 & MATH 200 are highly recommended)
- PSYC 101 - Introduction to Psychology **Credit Hours: 3**
- PSYC 232 - Behavioral Statistics **Credit Hours: 3**
- ENGL 121 - Composition **Credit Hours: 3** & an English Literature course
- Social science course
- Other humanities



The following courses are required by many Physician's Assistant Programs:

- CHEM 213 - Organic Chemistry I **Credit Hours: 4** And
- CHEM 214 - Organic Chemistry II **Credit Hours: 4**
  
- CHEM 418 - Biochemistry I **Credit Hours: 4**  
or
- CHEM 419 - Biochemistry II **Credit Hours: 3**

## **Pre-Pharmacy**

Pre-Pharmacy Requirements:

### Academic Plan

Students also have to complete all requirements for a major of their choice as well as all General Education requirements.

### First Year Fall Semester

- CHEM 111 - General Chemistry I **Credit Hours: 4**
- MATH 190 - Calculus I **Credit Hours: 4**
- PSYC 101 - Introduction to Psychology **Credit Hours: 3**
- ENGL 121 - Composition **Credit Hours: 3**

### First Year Spring Semester

- CHEM 112 - General Chemistry II **Credit Hours: 4**
- MATH 200 - Calculus II **Credit Hours: 4**
- BIOL 112 - Organismal Biology II **Credit Hours: 3**

### Second Year Fall Semester

- CHEM 213 - Organic Chemistry I **Credit Hours: 4**
- PHEN 121 - Classical Physics I **Credit Hours: 4**
- English/Social Sciences course
- English/Social Sciences course

### Second Year Spring Semester

- CHEM 214 - Organic Chemistry II **Credit Hours: 4**
- PHEN 121 - Classical Physics I **Credit Hours: 4**
- BIOL 312 - Microbiology **Credit Hours: 4**

## Third Year Fall Semester

- BIOL 121 - Anatomy & Physiology I **Credit Hours: 4**
- CHEM 418 - Biochemistry I **Credit Hours: 4**  
or
- CHEM 419 - Biochemistry II **Credit Hours: 3**

## Third Year Spring Semester

- BIOL 122 - Anatomy & Physiology II **Credit Hours: 4**
- MATH 140 - Practical Statistics **Credit Hours: 3**

## Upper-level science courses

The following upper-level science courses are highly recommended, and can be taken as offered, starting in the Spring Semester of the Second Year. (Many of these courses are alternate year courses.):

- CHEM 418 - Biochemistry I **Credit Hours: 4**
- CHEM 419 - Biochemistry II **Credit Hours: 3**
- BIOL 306 - Genetics **Credit Hours: 4**
- Marketing courses are also recommended

## [3+1] Chemistry Major Pathway for Pre-Pharmacy Students

Students complete this program in 3 years at Muskingum, followed by completion of the First Year of Pharmacy School to earn the BS Degree from Muskingum University, resulting in one less year to earn the PharmD.

### Degree Requirements:

- CHEM 111 - General Chemistry I **Credit Hours: 4**
- CHEM 112 - General Chemistry II **Credit Hours: 4**
- CHEM 213 - Organic Chemistry I **Credit Hours: 4**
- CHEM 214 - Organic Chemistry II **Credit Hours: 4**
- CHEM 315 - Physical Chemistry I **Credit Hours: 4**
- CHEM 335 - Analytical Chemistry **Credit Hours: 4**
- CHEM 355 - Advanced Laboratory in Chemistry **Credit Hours: 3**
- CHEM 418 - Biochemistry I **Credit Hours: 4**  
or
- CHEM 419 - Biochemistry II **Credit Hours: 3**
- BIOL 121 - Anatomy & Physiology I **Credit Hours: 4**
- BIOL 122 - Anatomy & Physiology II **Credit Hours: 4**
- BIOL 312 - Microbiology **Credit Hours: 4**
- MATH 190 - Calculus I **Credit Hours: 4**
- MATH 200 - Calculus II **Credit Hours: 4**
- PHEN 121 - Classical Physics I **Credit Hours: 4**
- PHEN 122 - Classical Physics II **Credit Hours: 4**
- Complete all Gen Ed categories except Categories 8. Health & 13. U.S. Experience

## Recommended electives:

- MATH 140 - Practical Statistics **Credit Hours: 3**  
or
- PSYC 232 - Behavioral Statistics **Credit Hours: 3**
- ECON 215 - Principles of Microeconomics **Credit Hours: 3**
- BIOL 305 - Human Genetics **Credit Hours: 3**

Total credit hours to be completed at Muskingum University: 95-99

Total of upper-level hours to be completed at Muskingum University: 26

Minimum of 36 hours to be completed in the first year of an accredited Pharm.D. Program with Pass Grades earned in all of these courses - student needs to have the transcript sent from the Pharm.D. School to Muskingum University.

## Pre-Physical Therapy

You must complete a major in addition to each schools' pre-requisite courses. Many students choose a major that requires courses that are part of the list of pre-requisites.

Be sure to examine the specific pre-requisites for the each school to which you plan to apply. The following are common courses listed as pre-requisites for several Clinical Doctorate in Physical Therapy Programs.

## Pre-Physical Therapy Requirements:

- BIOL 111 - Organismal Biology I **Credit Hours: 3** And
- BIOL 107 - Biology Laboratory I **Credit Hours: 1**
  
- BIOL 112 - Organismal Biology II **Credit Hours: 3** And
- BIOL 108 - Biology Laboratory II **Credit Hours: 1**
  
- BIOL 121 - Anatomy & Physiology I **Credit Hours: 4**
- BIOL 122 - Anatomy & Physiology II **Credit Hours: 4**
- BIOL 312 - Microbiology **Credit Hours: 4**
- CHEM 111 - General Chemistry I **Credit Hours: 4**
- CHEM 112 - General Chemistry II **Credit Hours: 4**
- PHEN 121 - Classical Physics I **Credit Hours: 4**
- PHEN 122 - Classical Physics II **Credit Hours: 4**
- PSYC 101 - Introduction to Psychology **Credit Hours: 3**
  
- PSYC 232 - Behavioral Statistics **Credit Hours: 3**  
or
- MATH 140 - Practical Statistics **Credit Hours: 3**
  
- Upper level Psychology and/or PSYC 208 - Lifespan Development
- HLSC 110 - Medical Terminology I **Credit Hours: 1**
- HLSC 111 - Medical Terminology II **Credit Hours: 1**

- EXSC 349 - Advanced Exercise Physiology **Credit Hours: 3**
- SPST 355 - Sports Ethics **Credit Hours: 3**

## **Pre-Physician's Assistant**

You must complete a major in addition to each schools' pre-requisite courses. Many students choose a major that requires courses that are part of the list of pre-requisites.

Be sure to examine the specific pre-requisites for the each school to which you plan to apply. The following are common courses listed as pre-requisites for several Clinical Degree in Physician's Assistant Programs.

### **Pre-Physician's Assistant Requirements:**

- BIOL 121 - Anatomy & Physiology I **Credit Hours: 4** And
- BIOL 122 - Anatomy & Physiology II **Credit Hours: 4**
- BIOL 226 - Introduction to Cell and Molecular Biology **Credit Hours: 3**
- BIOL 312 - Microbiology **Credit Hours: 4**
- CHEM 111 - General Chemistry I **Credit Hours: 4** And
- CHEM 112 - General Chemistry II **Credit Hours: 4**
- PSYC 101 - Introduction to Psychology **Credit Hours: 3**
- \* For University of Findlay: MATH 140 - Practical Statistics or higher
- \* For Marietta College: PSYC 363 - Abnormal Psychology
- \* For University of Findlay: PHEN 121 - Classical Physics I & PHEN 122 - Classical Physics II with labs
- SOCI 101 - The Sociological Perspective **Credit Hours: 3**
- HLSC 110 - Medical Terminology I **Credit Hours: 1** And
- HLSC 111 - Medical Terminology II **Credit Hours: 1**

## **Pre-Social Work**

### **Pre-Social Work Minor Requirements: (22 Hours)**

#### **Pre-Social Work Core Requirements: (12 Hours)**

- ECON 215 - Principles of Microeconomics **Credit Hours: 3**
- POLS 111 - American Political Systems **Credit Hours: 3**
- PSYC 101 - Introduction to Psychology **Credit Hours: 3**
- SOCI 101 - The Sociological Perspective **Credit Hours: 3**

#### **Distribution: (10 Hours)**

- one from each category below:

## Human Biology

- BIOL 106 (Human Biology) or other Human Biology classes as determined by an advisor

## Statistics

- BUSI 325 - Statistics **Credit Hours: 3**
- MATH 140 - Practical Statistics **Credit Hours: 3**
- PSYC 232 - Behavioral Statistics **Credit Hours: 3**

## At Least One of the Following:

- CRMJ 372 - Juvenile Justice **Credit Hours: 3**
- POLS 321 - Public Administration **Credit Hours: 3**
- POLS 322 - Public Policy **Credit Hours: 3**
- PSYC 363 - Abnormal Psychology **Credit Hours: 3**
- PSYC 390 - Counseling Theory and Process **Credit Hours: 3**
- SOCI 320 - Racial and Cultural Minorities **Credit Hours: 3**
- SOCI 345 - Sociology of the Family **Credit Hours: 3**

## Pre-Veterinary

### Pre-Veterinary Requirements:

### Academic Plan

#### First Year Fall Semester

- CHEM 111 - General Chemistry I **Credit Hours: 4**
- MATH 190 - Calculus I **Credit Hours: 4**
- BIOL 111 - Organismal Biology I **Credit Hours: 3**
- ENGL 121 - Composition **Credit Hours: 3**

#### First Year Spring Semester

- CHEM 111 - General Chemistry I **Credit Hours: 4**
- MATH 200 - Calculus II **Credit Hours: 4**
- BIOL 112 - Organismal Biology II **Credit Hours: 3**
- Social Sciences course

#### Second Year Fall Semester

- CHEM 213 - Organic Chemistry I **Credit Hours: 4**
- PHEN 121 - Classical Physics I **Credit Hours: 4**

- BIOL 226 - Introduction to Cell and Molecular Biology **Credit Hours: 3**
- English/Social Sciences course

## Second Year Spring Semester

- CHEM 214 - Organic Chemistry II **Credit Hours: 4**
- PHEN 122 - Classical Physics II **Credit Hours: 4**
- BIOL 312 - Microbiology **Credit Hours: 4**
- English/Social Sciences course

## Third Year Fall Semester

- BIOL 121 - Anatomy & Physiology I **Credit Hours: 4**
- CHEM 418 - Biochemistry I **Credit Hours: 4**  
or
- CHEM 419 - Biochemistry II **Credit Hours: 3**

## Third Year Spring Semester

- BIOL 122 - Anatomy & Physiology II **Credit Hours: 4**
- MATH 140 - Practical Statistics **Credit Hours: 3**

## Upper-level science courses

The following upper-level science courses are highly recommended, and can be taken as offered, starting in the Fall Semester of the Third Year (Many of these courses are alternate year courses):

- CHEM 418 - Biochemistry I **Credit Hours: 4**
- CHEM 419 - Biochemistry II **Credit Hours: 3**
- BIOL 306 - Genetics **Credit Hours: 4**
- BIOL 213 - Functional Histology **Credit Hours: 4**

## Not Accepting New Majors

### French

#### French Major Requirements: (33 Hours Beyond 112)

Study Abroad, FREN 310, FREN 431, one course in another foreign language at the appropriate level. Enrollment in French Table (FREN 251/FREN 291) expected every semester, required when not enrolled in a French course; 2 hours applied to major or minor. No more than one upper level French course taught in English is allowed to count toward major requirements.

### Education Licensure

Multi-age world language licensure in French pre-K through 21 is offered. Teacher licensure candidates must meet the requirements of Muskingum University and the Ohio Department of Education for teacher licensure. Contact the education department on campus for specific course requirements. Licensure candidates are required to maintain a minimum average GPA of 3.0 in their language course work, earn a minimum grade of B- in WRLD 397 , and pass the content tests required by the State of Ohio for teacher licensure prior to student teaching. Completion of requirements may take 8 semesters in addition to student teaching.

## **French Major**

### **French Major Requirements: (33 Hours Beyond 112)**

Study Abroad, FREN 310, FREN 431, one course in another foreign language at the appropriate level. Enrollment in French Table (FREN 251/FREN 291) expected every semester, required when not enrolled in a French course; 2 hours applied to major or minor. No more than one upper level French course taught in English is allowed to count toward major requirements.

## **German Major**

(Not Accepting New Majors)

### **German Major Requirements: (36 Hours)**

(36 hours if started at GERM 111; 33 hours if started at GERM 112 or GERM 211)

Study Abroad, GERM 123, GERM 310, GERM 431, one course in another foreign language at the appropriate level. Enrollment in German Table (GERM 251/GERM 291) expected every semester, required when not enrolled in a German course; 2 hours applied to major or minor. No more than one upper-level German course taught in English is allowed to count toward major requirements.

## **International Affairs Major**

(Not Accepting New Majors)

### **Major Requirements: (42 Hours)**

### **International Affairs Core Requirements: (15 Hours)**

Senior Seminar (3 hours) selected in consultation with the International Affairs advisor and in a department involved in the International Affairs major.

Majors are advised that seminars in some departments may require successful completion of an additional class or classes, such as a research methods class.

### **12 hours from the following:**

- ECON 215 - Principles of Microeconomics **Credit Hours: 3**
- ECON 216 - Principles of Macroeconomics **Credit Hours: 3**

- HIST 112 - The Emergence of the Modern World II **Credit Hours: 3**
- POLS 131 - Introduction to Comparative Politics **Credit Hours: 3**
- POLS 151 - Introduction to International Relations **Credit Hours: 3**
- RELG 153 - World Religions **Credit Hours: 3**
- SOCI 101 - The Sociological Perspective **Credit Hours: 3**

## Distribution requirements:

At least 27 hours including courses in three disciplines from the first three groups

### Social and Economic Development: (3 Hours)

- ECON 361 - International Trade **Credit Hours: 3**
- ECON 362 - International Finance **Credit Hours: 3**
- GEOG 111 - World Regional Geography **Credit Hours: 3**
- RELG 393 - Global Issues and Values **Credit Hours: 3**
- SOCI 320 - Racial and Cultural Minorities **Credit Hours: 3**
- SOCI 350 - Social Change in an International Perspective **Credit Hours: 3**

### International Relations: (6 Hours)

- HIST 320 - Twentieth Century Europe **Credit Hours: 3**
- HIST 348 - The Western Impact on Modern Japan **Credit Hours: 3**
- POLS 352 - American Foreign Policy **Credit Hours: 3**
- POLS 354 - Model United Nations **Credit Hours: 3**
- POLS 356 - War, Peace, and Security **Credit Hours: 3**
- POLS 358 - Russian Foreign Policy **Credit Hours: 3**

### Comparative Culture and Politics: (9 Hours)

- ENGL 124 - World Literature **Credit Hours: 3**
- FREN 123 - Explorations of Francophone Literature in English Translation **Credit Hours: 3**
- FREN 304 - Survey of French and Francophone Literatures **Credit Hours: 3**
- FREN 325 - Topics in French Civilization **Credit Hours: 3**
- GERM 123 - Explorations in German Literature in English Translation **Credit Hours: 3**
- GERM 325 - Topics in Germanic Civilization **Credit Hours: 3**
- HIST 346 - Southeast Asian History **Credit Hours: 3**
- HIST 347 - Modern China **Credit Hours: 3**
- HIST 351 - Modern Latin America **Credit Hours: 3**
- HIST 356 - History of Modern Africa **Credit Hours: 3**
- MUSC 310 - Excursions in World Music **Credit Hours: 3**
- POLS 331 - Politics of Western Europe **Credit Hours: 3**
- POLS 336 - Russian Politics and Society **Credit Hours: 3**
- RELG 251 - The World of Islam **Credit Hours: 3**
- RELG 342 - Religions and Philosophies of Asia **Credit Hours: 3**
- RELG 395 - World Mythology **Credit Hours: 3**
- SPAN 123 - Hispanic Literature and Film **Credit Hours: 3**



- SPAN 325 - Hispanic Civilization **Credit Hours: 3**

### Language Skills - either (a) or (b)

- Participation in an approved study abroad program that includes 3 hours of course work in a foreign language.
- Completion of a foreign language course at the 212-level or above, excluding courses not taught in the language of study.
- Native Speakers of foreign languages taking courses at Muskingum University are exempt from the language requirement.

Two additional 300- or 400-level courses from the listed courses, excluding those already used to fulfill requirements.

## International Business Major

(Not Accepting New Majors)

### Major Requirements: (42-60 Hours)

#### International Business Core Requirements:

(33-53 hours, including at least 3 completed in an advisor-approved study abroad program)

- ACCT 201 - Financial Accounting **Credit Hours: 3**
- ECON 215 - Principles of Microeconomics **Credit Hours: 3**
- ECON 216 - Principles of Macroeconomics **Credit Hours: 3**
- ECON 361 - International Trade **Credit Hours: 3**
- BUSI 221 - Organizational Management **Credit Hours: 3**
- BUSI 241 - Marketing **Credit Hours: 3**
  
- BUSI 318 - Managerial Finance **Credit Hours: 3** And
- BUSI 412 - International Business **Credit Hours: 3**
  
- HIST 320 - Twentieth Century Europe **Credit Hours: 3**
- HIST 347 - Modern China **Credit Hours: 3**
- HIST 348 - The Western Impact on Modern Japan **Credit Hours: 3**  
or
- HIST 351 - Modern Latin America **Credit Hours: 3**
- POLS 131 - Introduction to Comparative Politics **Credit Hours: 3**  
or
- POLS 151 - Introduction to International Relations **Credit Hours: 3**
- IDIS 491 - Seminar in International Business **Credit Hours: 3**

### International Business Capstone Course

(senior seminar) to be taken after completion of

- FREN 240 - Business French **Credit Hours: 3**

- SPAN 240 - Business Spanish **Credit Hours: 3**  
or
- GERM 340 - Business German **Credit Hours: 3**
  
- ECON 215 - Principles of Microeconomics **Credit Hours: 3** And
- ECON 216 - Principles of Macroeconomics **Credit Hours: 3**
  
- BUSI 221 - Organizational Management **Credit Hours: 3**
- BUSI 241 - Marketing **Credit Hours: 3**
  
- BUSI 318 - Managerial Finance **Credit Hours: 3** And
- BUSI 412 - International Business **Credit Hours: 3**

Students are strongly encouraged to work with advisors to develop seminar topics/approaches that synthesize language and business skills.

## Language Proficiency: (3-19 Hours)

- a. For students whose native language is English: FREN 240, SPAN 240, or GERM 340: Business French/German/Spanish
- b. For students whose native language is not English: ENGL 202

## Electives:

(6-7 hours from the following, excluding courses used to fill requirements listed above)

- ACCT 202 - Managerial Accounting **Credit Hours: 3**
  
- BUSI 326 - Financial Analysis and Investment **Credit Hours: 3**  
or
- BUSI 411 - Topics in Business **Credit Hours: 3**
- ECON 362 - International Finance **Credit Hours: 3**
- ENGL 202 - Business Writing **Credit Hours: 3**
- GEOG 111 - World Regional Geography **Credit Hours: 3**
- HIST 320 - Twentieth Century Europe **Credit Hours: 3**
- HIST 346 - Southeast Asian History **Credit Hours: 3**
- HIST 347 - Modern China **Credit Hours: 3**
- HIST 348 - The Western Impact on Modern Japan **Credit Hours: 3**
- HIST 353 - History of Mexico, Pre-Columbian to Present **Credit Hours: 3**
- HIST 390 - Topics in History **Credit Hours: 3**
- An additional course in FREN, GERM, or SPAN excluding 123;
- IDIS 300 - Internship **Credit Hours: 1-6** (approved by international business faculty advisor).
- RELG 393 - Global Issues and Values **Credit Hours: 3**
- SOCI 350 - Social Change in an International Perspective **Credit Hours: 3**

## One from:

- POLS 131 - Introduction to Comparative Politics **Credit Hours: 3**
- POLS 151 - Introduction to International Relations **Credit Hours: 3**

- POLS 331 - Politics of Western Europe **Credit Hours: 3**

## **Multi-Age: German**

### **German Major Requirements: (36 Hours)**

(36 hours if started at GERM 111; 33 hours if started at GERM 112 or GERM 211)

Study Abroad, GERM 123, GERM 310, GERM 431, one course in another foreign language at the appropriate level. Enrollment in German Table (GERM 251/GERM 291) expected every semester, required when not enrolled in a German course; 2 hours applied to major or minor. No more than one upper-level German course taught in English is allowed to count toward major requirements.

## **Education Licensure**

Multi-age world language licensure in German pre-K through 12 is offered. Teacher licensure candidates must meet the requirements of Muskingum University and the Ohio Department of Education for teacher licensure. Contact the education department on campus for specific course requirements. Licensure candidates are required to maintain a minimum average GPA of 3.0 in their language course work, earn a minimum grade of B- in WRLD 397, and pass the content tests required by the State of Ohio for teacher licensure prior to student teaching. Completion of requirements may take 8 semesters in addition to student teaching.

## **Multi-Age: Health Education**

### **Health Education Major Requirements: (32 Hours)**

- BIOL 106 - Contemporary Biologic Issues **Credit Hours: 4** (Genetic Frontiers and Biotechnology, Human Biology, or Human Diseases)
- EXSC 131 - Human Structure and Function **Credit Hours: 4**
- EXSC 210 - First Aid and CPR **Credit Hours: 3**
- EXSC 249 - Exercise Physiology **Credit Hours: 3**
- HLSC 308 - Community Health **Credit Hours: 3**
- HLSC 345 - Personal Health **Credit Hours: 3**
- HLTH 400 - Health Curriculum, Methods, and Materials **Credit Hours: 3**
- NUTR 131 - Introduction to Nutrition **Credit Hours: 3**
- PE 470 - Administration, Organization, and Supervision of Health, Physical Education and Sports Programs **Credit Hours: 3**

## **Multi-Age: Physical Education**

### **Physical Education Major Requirements (27 hours)**

- EXSC 131 - Human Structure and Function **Credit Hours: 4**
- EXSC 249 - Exercise Physiology **Credit Hours: 3**
- EXSC 338 - Kinesiology **Credit Hours: 3**
- PE 341 - Principles of Physical Education, Evaluation and Measurements **Credit Hours: 3**

- PE 416 - Teaching Physical Education Activities **Credit Hours: 4**
- SPST 203 - Foundations of Athletic Skill **Credit Hours: 3**
- SPST 418 - Coaching Team Sports **Credit Hours: 3**

Electives:

- Two hours of Physical Education (PE) above the 100-level

## **Not Accepting New Minors**

### **French, Minor**

Minor Requirements: (19 Hours)

- 19 credit hours in French courses taught in French, to include FREN 240 or one 300 level course taught in French

### **German, Minor**

Minor Requirements: (19 Hours)

- 19 credit hours in German courses taught in German, to include one 300 level course taught in German.

### **Health Education, Minor**

Minor Requirements: (15 Hours)

- Fifteen hours of HLTH courses with at least 3 hours at the 300- or 400-level

### **Physical Education, Minor**

Minor Requirements: (15 Hours)

- PE courses at the 200-level or above with at least 3 hours at the 300- or 400-level.

## **Programs A-Z**

### **Accounting (Public) Major**

Major Requirements: (60 Hours Within a 150 Hour Degree Program)

- ACCT 201 - Financial Accounting **Credit Hours: 3**
- ACCT 202 - Managerial Accounting **Credit Hours: 3**
- ACCT 301 - Intermediate Accounting I **Credit Hours: 3**
- ACCT 302 - Intermediate Accounting II **Credit Hours: 3**
- ACCT 363 - Cost Accounting **Credit Hours: 3**
- ACCT 364 - Income Taxes **Credit Hours: 3**
- ACCT 411 - Advanced Accounting **Credit Hours: 3**
- ACCT 412 - Auditing **Credit Hours: 3**
- ACCT 420 - Accounting Information Systems **Credit Hours: 3**
- ACCT 421 - Advanced Taxation **Credit Hours: 3**
- ACCT 422 - Governmental Accounting and Auditing **Credit Hours: 3**
- ACCT 495 - Seminar **Credit Hours: 3**
- BUSI 221 - Organizational Management **Credit Hours: 3**
- BUSI 318 - Managerial Finance **Credit Hours: 3**
- BUSI 325 - Statistics **Credit Hours: 3**
- BUSI 360 - Business Law **Credit Hours: 3**
- BUSI 414 - Business Ethics **Credit Hours: 3**
- one EAB elective
- ECON 215 - Principles of Microeconomics **Credit Hours: 3**
- ECON 216 - Principles of Macroeconomics **Credit Hours: 3**

## **Accounting Major**

### **Major Requirements: (36 Hours)**

- ACCT 201 - Financial Accounting **Credit Hours: 3**
- ACCT 202 - Managerial Accounting **Credit Hours: 3**
- ACCT 301 - Intermediate Accounting I **Credit Hours: 3**
- ACCT 302 - Intermediate Accounting II **Credit Hours: 3**
- ACCT 363 - Cost Accounting **Credit Hours: 3**
- ACCT 364 - Income Taxes **Credit Hours: 3**
- ACCT 411 - Advanced Accounting **Credit Hours: 3**
- ACCT 412 - Auditing **Credit Hours: 3**
- ACCT 495 - Seminar **Credit Hours: 3**
- ECON 215 - Principles of Microeconomics **Credit Hours: 3**
- ECON 216 - Principles of Macroeconomics **Credit Hours: 3**

### **Select one from:**

- ACCT 420 - Accounting Information Systems **Credit Hours: 3**
- ACCT 421 - Advanced Taxation **Credit Hours: 3**
- or
- ACCT 422 - Governmental Accounting and Auditing **Credit Hours: 3**

## **Accounting, Minor**

## Minor Requirements: (15 Hours)

- ACCT 201 - Financial Accounting **Credit Hours: 3**
- ACCT 202 - Managerial Accounting **Credit Hours: 3**  
or
- ACCT 363 - Cost Accounting **Credit Hours: 3**
- ACCT 301 - Intermediate Accounting I **Credit Hours: 3**
- ACCT 302 - Intermediate Accounting II **Credit Hours: 3**  
or
- ACCT 364 - Income Taxes **Credit Hours: 3**
- ECON 215 - Principles of Microeconomics **Credit Hours: 3**

## Adolescent/Young Adult: Earth Sciences

### Earth Science Major Requirements: (25-26 Hours in Geology)

- GEOL 101 - Introduction to Geology **Credit Hours: 4**  
or
- GEOL 110 - Environmental Geology **Credit Hours: 4**
  
- GEOL 104 - Earth History **Credit Hours: 4**
- GEOL 200 - Oceanography **Credit Hours: 3**
- GEOL 220 - Landform Evolution **Credit Hours: 3**
- GEOL 301 - Mineralogy **Credit Hours: 4**
- GEOL 302 - Igneous and Metamorphic Petrology **Credit Hours: 3**
- GEOL 495 - Literature Seminar **Credit Hours: 2**
  
- CHEM 105 - Issues in the Chemical Sciences **Credit Hours: 4**  
or
- CHEM 111 - General Chemistry I **Credit Hours: 4**
  
- GEOG 321 - Weather and Climate **Credit Hours: 3**
  
- PHEN 101 - Conceptual Physics **Credit Hours: 4**  
or
- PHEN 115 - Introductory Physics I **Credit Hours: 4**  
or
- PHEN 121 - Classical Physics I **Credit Hours: 4**
  
- PHEN 150 - Introduction to Astronomy **Credit Hours: 4**

### Select Three From:

- GEOL 303 - Sedimentary Petrology **Credit Hours: 3**
- GEOL 311 - Paleontology **Credit Hours: 3**
- GEOL 313 - Structural Geology **Credit Hours: 3**

- GEOL 322 - Sedimentology and Stratigraphy **Credit Hours: 3**  
or
- GEOG 310 - Introduction to Geographic Information Systems **Credit Hours: 3**

### Select One From:

- GEOL 295 - Research Experience **Credit Hours: 1-3**
- GEOL 496 - Senior Research **Credit Hours: 3**

### Select One From:

- MATH 170 - Applied College Algebra **Credit Hours: 3**
- MATH 180 - Precalculus **Credit Hours: 4**
- MATH 190 - Calculus I **Credit Hours: 4**

## Education Licensure

Earth Sciences or Integrated Sciences, grades 7-12. Contact the education department or the education department website for specific course requirements.

## Adolescent/Young Adult: Integrated Language Arts

### English Major Requirements: (30 Hours Not Including 121)

- ENGL 231 - British Literature to 1800 **Credit Hours: 3**  
or
- ENGL 232 - British Literature after 1800 **Credit Hours: 3**
- ENGL 233 - American Literature to 1865 **Credit Hours: 3**  
or
- ENGL 234 - American Literature after 1865 **Credit Hours: 3**
- ENGL 320 - Principles of Literary Study **Credit Hours: 3**
- ENGL 495 - Seminar **Credit Hours: 3**
- 12 hours at 300-level or above

## Education Licensure

Prepares the student to teach integrated language arts, grades 7-12 (which includes an English major). Contact the education department or the education department website for specific course requirements. You will have one advisor in English and one in Education.

## Adolescent/Young Adult: Integrated Mathematics

### Mathematics Major Requirements: (36 Hours)

- MATH 190 - Calculus I **Credit Hours: 4**
- MATH 200 - Calculus II **Credit Hours: 4**
- MATH 230 - Linear Algebra and Vectors **Credit Hours: 3**
- MATH 240 - Discrete Mathematics I **Credit Hours: 3**
- MATH 250 - Discrete Mathematics II **Credit Hours: 3**
- MATH 310 - Calculus III **Credit Hours: 3**
- MATH 330 - Algebraic Structures **Credit Hours: 4**
- MATH 410 - Analysis **Credit Hours: 4**
- MATH 495 - Mathematics Seminar **Credit Hours: 1**
- CPSC 100 - Introduction to Computer Science **Credit Hours: 3**
- 6 additional hours at the 300-level or above.

## Education Licensure

Integrated math, grades 7-12. Contact the education department or the education department website for specific course requirements.

## Adolescent/Young Adult: Integrated Science - Biology

### Biology Major Requirements: (46 Credit Hours)

- BIOL 111 - Organismal Biology I **Credit Hours: 3**
- BIOL 107 - Biology Laboratory I **Credit Hours: 1**
- BIOL 112 - Organismal Biology II **Credit Hours: 3**
- BIOL 108 - Biology Laboratory II **Credit Hours: 1**
- BIOL 226 - Introduction to Cell and Molecular Biology **Credit Hours: 3**
- BIOL 306 - Genetics **Credit Hours: 4**
- BIOL 308 - General Ecology **Credit Hours: 4**
- BIOL 336 - Cellular Physiology **Credit Hours: 4**
- BIOL 420 - Senior Seminar **Credit Hours: 3** (taken in the Junior or Senior year)
- CHEM 111 - General Chemistry I **Credit Hours: 4**
- CHEM 112 - General Chemistry II **Credit Hours: 4**
  
- MATH 140 - Practical Statistics **Credit Hours: 3**  
or
- MATH 170 - Applied College Algebra **Credit Hours: 3**  
or
- any math higher than 170

### Electives:

The remaining 12 credit hours can be completed from the following elective courses:

- BIOL 121 - Anatomy & Physiology I **Credit Hours: 4**
- BIOL 122 - Anatomy & Physiology II **Credit Hours: 4**
- BIOL 213 - Functional Histology **Credit Hours: 4**
- BIOL 221 - Vascular Plant Systematics **Credit Hours: 4**



- BIOL 232 - Vertebrate Natural History **Credit Hours: 4**
- BIOL 240 - Animal Behavior **Credit Hours: 3**
- BIOL 304 - Evolution **Credit Hours: 4**
- BIOL 312 - Microbiology **Credit Hours: 4**
- BIOL 321 - Advanced Botany **Credit Hours: 4**
- BIOL 346 - Pathophysiology **Credit Hours: 3**
- BIOL 368 - Fundamental Neuroscience **Credit Hours: 4**
- BIOL 373 - Comparative Vertebrate Anatomy **Credit Hours: 4**
- BIOL 375 - Molecular Biology **Credit Hours: 4**
- BIOL 385 - Topics in Biology **Credit Hours: 1-4**
- BIOL 421 - Biological Research **Credit Hours: 2**
- BIOL 422 - Biological Research **Credit Hours: 2**
- CVSC 331 - Conservation Biology **Credit Hours: 4**
- NRSC 386 - Neuropharmacology **Credit Hours: 4**

## One Course from the Following List

At most, one course from the following list will count as credit toward biology major electives:

- EVSC 121 - Environmental Issues **Credit Hours: 1**
- EVSC 421 - Topics in Environmental Science **Credit Hours: 1**
- MBIO 211 - Topics in Molecular Biology **Credit Hours: 1**
- MBIO 411 - Topics in Molecular Biology **Credit Hours: 1**
- CVSC 231 - Conservation Science Discussion **Credit Hours: 1**
  
- CVSC 431 - Topics in Conservation Science **Credit Hours: 1**
- or
- NRSC 201 - Topics in Neuroscience **Credit Hours: 1**

## Gen Ed Issues Courses

Gen Ed issues courses (the 106 group) count as two credit hours toward the electives in the major.

BIOL 305 cannot be counted as credit toward the biology major.

## Education Licensure

Life Sciences or Integrated Science, grades 7-12. Contact the education department or the education department website for specific course requirements.

## **Adolescent/Young Adult: Integrated Science - Chemistry**

### Chemistry Major Requirements: (39-40 Hours in Chemistry Including)

- CHEM 111 - General Chemistry I **Credit Hours: 4**
- CHEM 112 - General Chemistry II **Credit Hours: 4**
- CHEM 213 - Organic Chemistry I **Credit Hours: 4**

- CHEM 214 - Organic Chemistry II **Credit Hours: 4**
- CHEM 230 - Foundational Inorganic Chemistry **Credit Hours: 3**
- CHEM 250 - Professional Development for Chemists **Credit Hours: 1**
- CHEM 315 - Physical Chemistry I **Credit Hours: 4**
- CHEM 335 - Analytical Chemistry **Credit Hours: 4**
- CHEM 355 - Advanced Laboratory in Chemistry **Credit Hours: 3**
- CHEM 454 - Chemistry Seminar and Literature Research **Credit Hours: 2**
- CHEM 455 - Chemistry Seminar and Laboratory Research **Credit Hours: 4**
- MATH 190 - Calculus I **Credit Hours: 4**
- MATH 200 - Calculus II **Credit Hours: 4**
- PHEN 121 - Classical Physics I **Credit Hours: 4**
- PHEN 122 - Classical Physics II **Credit Hours: 4**

## Chemistry Electives:

at least one course from

- CHEM 316 - Physical Chemistry II **Credit Hours: 3**
- CHEM 418 - Biochemistry I **Credit Hours: 4**
- CHEM 419 - Biochemistry II **Credit Hours: 3**
- CHEM 425 - Advanced Inorganic Chemistry **Credit Hours: 4**
- CHEM 441 - Forensic Chemistry Laboratory **Credit Hours: 3**
- CHEM 445 - Topics in Modern Chemistry **Credit Hours: 1-3**

## Recommended Electives:

- MATH 140 - Practical Statistics **Credit Hours: 3**
- CPSC 111 - Computer Science I **Credit Hours: 3**
- a world language

## Tracks

- American Chemical Society certification
- American Chemical Society Certification - Biochemistry Track
- Pre-Health Track
- Pre-Pharmacy Track
- Forensic Chemistry Track
- Neurochemistry Track
- [3+1] Major

## Education Licensure

Physical Sciences: Chemistry or Integrated Science. Contact the chemistry department or education department for specific course requirements.

## Adolescent/Young Adult: Integrated Science - Earth Science

## Earth Science Major Requirements: (25-26 Hours in Geology)

- GEOL 101 - Introduction to Geology **Credit Hours: 4**  
or
- GEOL 110 - Environmental Geology **Credit Hours: 4**
  
- GEOL 104 - Earth History **Credit Hours: 4**
- GEOL 200 - Oceanography **Credit Hours: 3**
- GEOL 220 - Landform Evolution **Credit Hours: 3**
- GEOL 301 - Mineralogy **Credit Hours: 4**
- GEOL 302 - Igneous and Metamorphic Petrology **Credit Hours: 3**
- GEOL 495 - Literature Seminar **Credit Hours: 2**
  
- CHEM 105 - Issues in the Chemical Sciences **Credit Hours: 4**  
or
- CHEM 111 - General Chemistry I **Credit Hours: 4**
  
- GEOG 321 - Weather and Climate **Credit Hours: 3**
  
- PHEN 101 - Conceptual Physics **Credit Hours: 4**  
or
- PHEN 115 - Introductory Physics I **Credit Hours: 4**  
or
- PHEN 121 - Classical Physics I **Credit Hours: 4**
  
- PHEN 150 - Introduction to Astronomy **Credit Hours: 4**

### Select Three From:

- GEOL 303 - Sedimentary Petrology **Credit Hours: 3**
- GEOL 311 - Paleontology **Credit Hours: 3**
- GEOL 313 - Structural Geology **Credit Hours: 3**
  
- GEOL 322 - Sedimentology and Stratigraphy **Credit Hours: 3**  
or
- GEOG 310 - Introduction to Geographic Information Systems **Credit Hours: 3**

### Select One From:

- GEOL 295 - Research Experience **Credit Hours: 1-3**
- GEOL 496 - Senior Research **Credit Hours: 3**

### Select One From:

- MATH 170 - Applied College Algebra **Credit Hours: 3**
- MATH 180 - Precalculus **Credit Hours: 4**
- MATH 190 - Calculus I **Credit Hours: 4**

## Education Licensure

Earth Sciences or Integrated Sciences, grades 7-12. Contact the education department or the education department website for specific course requirements.

## Adolescent/Young Adult: Integrated Science - Geology

### Geology Major Requirements: (35 Hours in Geology)

- GEOL 101 - Introduction to Geology **Credit Hours: 4**  
or
- GEOL 110 - Environmental Geology **Credit Hours: 4**
  
- GEOL 104 - Earth History **Credit Hours: 4**
- GEOL 301 - Mineralogy **Credit Hours: 4**
- GEOL 302 - Igneous and Metamorphic Petrology **Credit Hours: 3**
- GEOL 303 - Sedimentary Petrology **Credit Hours: 3**
- GEOL 313 - Structural Geology **Credit Hours: 3**
- GEOL 322 - Sedimentology and Stratigraphy **Credit Hours: 3**
- GEOL 495 - Literature Seminar **Credit Hours: 2**
- GEOL 496 - Senior Research **Credit Hours: 3**
- CHEM 111 - General Chemistry I **Credit Hours: 4**
- CHEM 112 - General Chemistry II **Credit Hours: 4**
- GEOG 310 - Introduction to Geographic Information Systems **Credit Hours: 3**
  
- MATH 170 - Applied College Algebra **Credit Hours: 3**  
or
- MATH 180 - Precalculus **Credit Hours: 4**  
or
- MATH 190 - Calculus I **Credit Hours: 4**

### Two From Among

- GEOL 200 - Oceanography **Credit Hours: 3**
- GEOL 220 - Landform Evolution **Credit Hours: 3**
- GEOL 311 - Paleontology **Credit Hours: 3**

### Physics Requirement

Take one group: PHEN 115/PHEN 116 or PHEN 121/122

- PHEN 115 - Introductory Physics I **Credit Hours: 4**  
and
- PHEN 116 - Introductory Physics II **Credit Hours: 4**  
or
- PHEN 121 - Classical Physics I **Credit Hours: 4**

and

- PHEN 122 - Classical Physics II **Credit Hours: 4**

## A Six Credit Summer Field Geology Course (Approved by the Department)

### Recommended for Graduate School:

Calculus and 2 courses in each of physics and engineering (PHEN), biology (BIOL), world languages (FREN, GERM, SPAN).

### Education Licensure

Earth Sciences or Integrated Sciences, grades 7-12. Contact the education department or the education department website for specific course requirements.

## Adolescent/Young Adult: Integrated Science - Physics

### Physics Education Major Requirements: (102 Hours)

- PHEN 110 - Introduction to Physics and Engineering **Credit Hours: 2**
- PHEN 121 - Classical Physics I **Credit Hours: 4**
- PHEN 122 - Classical Physics II **Credit Hours: 4**
- PHEN 203 - Modern Physics **Credit Hours: 4**
- PHEN 210 - Statics **Credit Hours: 4**
- PHEN 235 - Electrical Circuit Analysis and Design **Credit Hours: 4**
- PHEN 310 - Optics **Credit Hours: 4**
- PHEN 492 - Introduction to Physics Education Senior Project **Credit Hours: 1**
- PHEN 497 - Physics Education Senior Project **Credit Hours: 3**
- CHEM 111 - General Chemistry I **Credit Hours: 4**
- CHEM 112 - General Chemistry II **Credit Hours: 4**
- CHEM 200 - Laboratory Safety **Credit Hours: 1**
- CPSC 100 - Introduction to Computer Science **Credit Hours: 3**
- EDUC 110 - Introduction to Education **Credit Hours: 1**
- EDUC 112 - Educational Implications of Diversity **Credit Hours: 3**
- EDUC 313 - Curriculum and Instruction for the Adolescent **Credit Hours: 3**
- EDUC 330 - Serving Individuals with Exceptionalities **Credit Hours: 3**
- EDUC 335 - Educational Technology **Credit Hours: 3**
- EDUC 341 - Assessment in Education **Credit Hours: 3**
- EDUC 394 - Integrated Science Methods for the Adolescent **Credit Hours: 3**
- EDUC 413 - Reading in the Content Areas **Credit Hours: 3**
- EDUC 419 - Co-teaching and Collaboration in Education **Credit Hours: 2**
- EDUC 420 - Proactive Approaches to Classroom Management and Support **Credit Hours: 2**
- EDUC 451 - Student Teaching in the Secondary School **Credit Hours: 9**
- EDUC 461 - Student Teaching Seminar **Credit Hours: 1**
- EDUC 466 - Professional Practices in Secondary Schools **Credit Hours: 2**
- MATH 190 - Calculus I **Credit Hours: 4**

- MATH 200 - Calculus II **Credit Hours: 4**
- MATH 230 - Linear Algebra and Vectors **Credit Hours: 3**
- MATH 310 - Calculus III **Credit Hours: 3**
- PSYC 101 - Introduction to Psychology **Credit Hours: 3**
- PSYC 308 - Adolescence and Youth **Credit Hours: 3**

## Education Licensure

The Ohio Assessments for Educators (OAE) test in physics must be passed prior to admission into student teaching.

Students must declare co-advisors from the Physics and Engineering and Education Departments to ensure that academic and teaching licensure requirements are met

## Adolescent/Young Adult: Integrated Social Studies

### History Major Requirements: (33 Hours)

- HIST 300 - Historical Research Methods **Credit Hours: 3**
- HIST 420 - Readings in History **Credit Hours: 3**
- HIST 460 - History Research Seminar **Credit Hours: 3**

### 9 Hours From

- HIST 105 - United States History to 1877 **Credit Hours: 3**
- HIST 106 - United States History since 1877 **Credit Hours: 3**
- HIST 110 - Pre-Modern World History **Credit Hours: 3**
- HIST 111 - The Emergence of the Modern World I **Credit Hours: 3**
- HIST 112 - The Emergence of the Modern World II **Credit Hours: 3**

### Electives: One Course From Each Grouping

#### European

- HIST 310 - Ancient History **Credit Hours: 3**
- HIST 318 - Nineteenth Century Europe **Credit Hours: 3**
- HIST 320 - Twentieth Century Europe **Credit Hours: 3**
- HIST 322 - Gender and History **Credit Hours: 3**
- HIST 345 - The Second World War **Credit Hours: 3**

#### World

- HIST 344 - East Asian History to 1800 **Credit Hours: 3**
- HIST 346 - Southeast Asian History **Credit Hours: 3**
- HIST 347 - Modern China **Credit Hours: 3**
- HIST 348 - The Western Impact on Modern Japan **Credit Hours: 3**

- HIST 350 - Colonial Latin America **Credit Hours: 3**
- HIST 351 - Modern Latin America **Credit Hours: 3**
- HIST 352 - Latin America Film and History **Credit Hours: 4**
- HIST 353 - History of Mexico, Pre-Columbian to Present **Credit Hours: 3**
- HIST 356 - History of Modern Africa **Credit Hours: 3**

## American

- HIST 372 - Empires of North America **Credit Hours: 3**
- HIST 374 - Ohio History **Credit Hours: 3**
- HIST 375 - Nearby History **Credit Hours: 4**
- HIST 376 - The American Revolution **Credit Hours: 3**
- HIST 378 - Gender and Sexuality in American History **Credit Hours: 3**
- HIST 379 - Youth in Modern America **Credit Hours: 3**
- HIST 380 - The History of the American Dream **Credit Hours: 3**
- HIST 381 - 1950s America **Credit Hours: 3**
- HIST 382 - 1960s and American Film **Credit Hours: 4**
- HIST 385 - American Environmental History **Credit Hours: 3**

## Remainder of Required Hours From Departmental Offerings

## Education Licensure

Integrated social studies, grades 7-12 (with a history major). Contact the education department or education department website for specific course requirements.

## Adolescent/Young Adult: Life Sciences

### Biology Major Requirements: (46 Credit Hours)

- BIOL 111 - Organismal Biology I **Credit Hours: 3**
- BIOL 107 - Biology Laboratory I **Credit Hours: 1**
- BIOL 112 - Organismal Biology II **Credit Hours: 3**
- BIOL 108 - Biology Laboratory II **Credit Hours: 1**
- BIOL 226 - Introduction to Cell and Molecular Biology **Credit Hours: 3**
- BIOL 306 - Genetics **Credit Hours: 4**
- BIOL 308 - General Ecology **Credit Hours: 4**
- BIOL 336 - Cellular Physiology **Credit Hours: 4**
- BIOL 420 - Senior Seminar **Credit Hours: 3** (taken in the Junior or Senior year)
- CHEM 111 - General Chemistry I **Credit Hours: 4**
- CHEM 112 - General Chemistry II **Credit Hours: 4**
  
- MATH 140 - Practical Statistics **Credit Hours: 3**  
or
- MATH 170 - Applied College Algebra **Credit Hours: 3**  
or

- any math higher than 170

## Electives:

The remaining 12 credit hours can be completed from the following elective courses:

- BIOL 121 - Anatomy & Physiology I **Credit Hours: 4**
- BIOL 122 - Anatomy & Physiology II **Credit Hours: 4**
- BIOL 213 - Functional Histology **Credit Hours: 4**
- BIOL 221 - Vascular Plant Systematics **Credit Hours: 4**
- BIOL 232 - Vertebrate Natural History **Credit Hours: 4**
- BIOL 240 - Animal Behavior **Credit Hours: 3**
- BIOL 304 - Evolution **Credit Hours: 4**
- BIOL 312 - Microbiology **Credit Hours: 4**
- BIOL 321 - Advanced Botany **Credit Hours: 4**
- BIOL 346 - Pathophysiology **Credit Hours: 3**
- BIOL 368 - Fundamental Neuroscience **Credit Hours: 4**
- BIOL 373 - Comparative Vertebrate Anatomy **Credit Hours: 4**
- BIOL 375 - Molecular Biology **Credit Hours: 4**
- BIOL 385 - Topics in Biology **Credit Hours: 1-4**
- BIOL 421 - Biological Research **Credit Hours: 2**
- BIOL 422 - Biological Research **Credit Hours: 2**
- CVSC 331 - Conservation Biology **Credit Hours: 4**
- NRSC 386 - Neuropharmacology **Credit Hours: 4**

## One Course from the Following List

At most, one course from the following list will count as credit toward biology major electives:

- EVSC 121 - Environmental Issues **Credit Hours: 1**
- EVSC 421 - Topics in Environmental Science **Credit Hours: 1**
- MBIO 211 - Topics in Molecular Biology **Credit Hours: 1**
- MBIO 411 - Topics in Molecular Biology **Credit Hours: 1**
- CVSC 231 - Conservation Science Discussion **Credit Hours: 1**
  
- CVSC 431 - Topics in Conservation Science **Credit Hours: 1**
- or
- NRSC 201 - Topics in Neuroscience **Credit Hours: 1**

## Gen Ed Issues Courses

Gen Ed issues courses (the 106 group) count as two credit hours toward the electives in the major.

BIOL 305 cannot be counted as credit toward the biology major.

## Teacher Licensure



Life Sciences or Integrated Science, grades 7-12. Contact the education department or the education department website for specific course requirements.

## **Adolescent/Young Adult: Physical Sciences: Chemistry**

### **Chemistry Major Requirements: (39-40 Hours in Chemistry Including)**

- CHEM 111 - General Chemistry I **Credit Hours: 4**
- CHEM 112 - General Chemistry II **Credit Hours: 4**
- CHEM 213 - Organic Chemistry I **Credit Hours: 4**
- CHEM 214 - Organic Chemistry II **Credit Hours: 4**
- CHEM 230 - Foundational Inorganic Chemistry **Credit Hours: 3**
- CHEM 250 - Professional Development for Chemists **Credit Hours: 1**
- CHEM 315 - Physical Chemistry I **Credit Hours: 4**
- CHEM 335 - Analytical Chemistry **Credit Hours: 4**
- CHEM 355 - Advanced Laboratory in Chemistry **Credit Hours: 3**
- CHEM 454 - Chemistry Seminar and Literature Research **Credit Hours: 2**
- CHEM 455 - Chemistry Seminar and Laboratory Research **Credit Hours: 4**
- MATH 190 - Calculus I **Credit Hours: 4**
- MATH 200 - Calculus II **Credit Hours: 4**
- PHEN 121 - Classical Physics I **Credit Hours: 4**
- PHEN 122 - Classical Physics II **Credit Hours: 4**

### **Chemistry Electives:**

at least one course from

- CHEM 316 - Physical Chemistry II **Credit Hours: 3**
- CHEM 418 - Biochemistry I **Credit Hours: 4**
- CHEM 419 - Biochemistry II **Credit Hours: 3**
- CHEM 425 - Advanced Inorganic Chemistry **Credit Hours: 4**
- CHEM 441 - Forensic Chemistry Laboratory **Credit Hours: 3**
- CHEM 445 - Topics in Modern Chemistry **Credit Hours: 1-3**

### **Recommended Electives:**

- MATH 140 - Practical Statistics **Credit Hours: 3**
- CPSC 111 - Computer Science I **Credit Hours: 3**
- a world language

### **Tracks**

- American Chemical Society certification
- American Chemical Society Certification - Biochemistry Track
- Pre-Health Track
- Pre-Pharmacy Track

- Forensic Chemistry Track
- Neurochemistry Track
- [3+1] Major

## Education Licensure

Physical Sciences: Chemistry or Integrated Science. Contact the chemistry department or education department for specific course requirements.

## Adolescent/Young Adult: Physical Sciences: Physics

### Physics Education Major Requirements: (102 Hours)

- PHEN 110 - Introduction to Physics and Engineering **Credit Hours: 2**
- PHEN 121 - Classical Physics I **Credit Hours: 4**
- PHEN 122 - Classical Physics II **Credit Hours: 4**
- PHEN 203 - Modern Physics **Credit Hours: 4**
- PHEN 210 - Statics **Credit Hours: 4**
- PHEN 235 - Electrical Circuit Analysis and Design **Credit Hours: 4**
- PHEN 310 - Optics **Credit Hours: 4**
- PHEN 492 - Introduction to Physics Education Senior Project **Credit Hours: 1**
- PHEN 497 - Physics Education Senior Project **Credit Hours: 3**
- CHEM 111 - General Chemistry I **Credit Hours: 4**
- CHEM 112 - General Chemistry II **Credit Hours: 4**
- CHEM 200 - Laboratory Safety **Credit Hours: 1**
- CPSC 100 - Introduction to Computer Science **Credit Hours: 3**
- EDUC 110 - Introduction to Education **Credit Hours: 1**
- EDUC 112 - Educational Implications of Diversity **Credit Hours: 3**
- EDUC 313 - Curriculum and Instruction for the Adolescent **Credit Hours: 3**
- EDUC 330 - Serving Individuals with Exceptionalities **Credit Hours: 3**
- EDUC 335 - Educational Technology **Credit Hours: 3**
- EDUC 341 - Assessment in Education **Credit Hours: 3**
- EDUC 394 - Integrated Science Methods for the Adolescent **Credit Hours: 3**
- EDUC 413 - Reading in the Content Areas **Credit Hours: 3**
- EDUC 419 - Co-teaching and Collaboration in Education **Credit Hours: 2**
- EDUC 420 - Proactive Approaches to Classroom Management and Support **Credit Hours: 2**
- EDUC 451 - Student Teaching in the Secondary School **Credit Hours: 9**
- EDUC 461 - Student Teaching Seminar **Credit Hours: 1**
- EDUC 466 - Professional Practices in Secondary Schools **Credit Hours: 2**
- MATH 190 - Calculus I **Credit Hours: 4**
- MATH 200 - Calculus II **Credit Hours: 4**
- MATH 230 - Linear Algebra and Vectors **Credit Hours: 3**
- MATH 310 - Calculus III **Credit Hours: 3**
- PSYC 101 - Introduction to Psychology **Credit Hours: 3**
- PSYC 308 - Adolescence and Youth **Credit Hours: 3**

## Education Licensure

The Ohio Assessments for Educators (OAE) test in physics must be passed prior to admission into student teaching.

Students must declare co-advisors from the Physics and Engineering and Education Departments to ensure that academic and teaching licensure requirements are met

## American Studies, Minor

### Minor Requirements: (15 Hours)

- IDIS 240 - Introduction to American Studies **Credit Hours: 3**
- 12 hours from at least three disciplines and two divisions, with at least two from the 300 level.

### Lower Level Offerings:

- ECON 215 - Principles of Microeconomics **Credit Hours: 3**
- ECON 216 - Principles of Macroeconomics **Credit Hours: 3**
- ENGL 233 - American Literature to 1865 **Credit Hours: 3**  
or
- ENGL 234 - American Literature after 1865 **Credit Hours: 3**
  
- ENGL 235 - African-American Literature **Credit Hours: 3**
- HIST 105 - United States History to 1877 **Credit Hours: 3**
- HIST 106 - United States History since 1877 **Credit Hours: 3**
- HIST 230 - The American Civil War **Credit Hours: 3**
- POLS 111 - American Political Systems **Credit Hours: 3**
- SOCI 216 - Social Problems in Contemporary America **Credit Hours: 3**

### Upper Level Offerings:

- ENGL 341 - Nineteenth Century American Fiction **Credit Hours: 3**
- ENGL 343 - Modern and Contemporary American Fiction **Credit Hours: 3**
- ENGL 351 - Modern and Contemporary American Poetry **Credit Hours: 3**
- ENGL 385 - Topics in Literature, Film, and Culture **Credit Hours: 3** (ENGL 385 can count no more than twice, and only when it focuses on a different American author)
- HIST 372 - Empires of North America **Credit Hours: 3**
- HIST 374 - Ohio History **Credit Hours: 3**
- HIST 378 - Gender and Sexuality in American History **Credit Hours: 3**
- HIST 379 - Youth in Modern America **Credit Hours: 3**
- HIST 380 - The History of the American Dream **Credit Hours: 3**
- HIST 381 - 1950s America **Credit Hours: 3**
- HIST 382 - 1960s and American Film **Credit Hours: 4**
- HIST 385 - American Environmental History **Credit Hours: 3**
- HIST 390 - Topics in History **Credit Hours: 3** (American topics only)
- PHIL 343 - Social and Political Philosophy **Credit Hours: 3** (Cross listed with SOCI 335 and POLS 343)

- POLS, one from POLS 311-POLS 319, one from POLS 321-POLS 328
- POLS 352 - American Foreign Policy **Credit Hours: 3**
- SOCI 301 - American Society: Class and Culture **Credit Hours: 3**
- SOCI 320 - Racial and Cultural Minorities **Credit Hours: 3**
- SOCI 345 - Sociology of the Family **Credit Hours: 3**

## **Animal Studies Major**

### **Major Requirements: (38 Hours)**

- ANST 250 - Career Development in Animal Studies **Credit Hours: 1**
- ANST 495 - Senior Seminar in Animal Studies **Credit Hours: 3**
- BIOL 111 - Organismal Biology I **Credit Hours: 3**
- BIOL 107 - Biology Laboratory I **Credit Hours: 1**
- BIOL 112 - Organismal Biology II **Credit Hours: 3**
- BIOL 108 - Biology Laboratory II **Credit Hours: 1**
- BIOL 240 - Animal Behavior **Credit Hours: 3**
- HLSC 315 - Public Health and Epidemiology **Credit Hours: 3**
- PHIL 331 - Environmental Ethics **Credit Hours: 3**

### **Electives:**

The remaining 17 hours are drawn from the following three areas (minimum of three credits from each of the three areas).

#### **Area I: Science**

- BIOL 232 - Vertebrate Natural History **Credit Hours: 4**
- BIOL 305 - Human Genetics **Credit Hours: 3**
- BIOL 346 - Pathophysiology **Credit Hours: 3**
- BIOL 373 - Comparative Vertebrate Anatomy **Credit Hours: 4**
- CVSC 331 - Conservation Biology **Credit Hours: 4**
- GEOG 310 - Introduction to Geographic Information Systems **Credit Hours: 3**
- PSYC 151 - General Experimental Psychology **Credit Hours: 4**
- PSYC 281 - Physiological Psychology **Credit Hours: 3**

#### **Area II: Behavior & Communication**

- COMM 246 - Interpersonal Communication **Credit Hours: 3**
- COMM 335 - Small Group Communication **Credit Hours: 3**
- COMM 345 - Interviewing **Credit Hours: 3**
- COMM 355 - Organizational Communication **Credit Hours: 3**
- ENGL 202 - Business Writing **Credit Hours: 3**
- PSYC 101 - Introduction to Psychology **Credit Hours: 3**
- PSYC 208 - Lifespan Development **Credit Hours: 3**
- PSYC 304 - Learning and Memory **Credit Hours: 3**

- PSYC 390 - Counseling Theory and Process **Credit Hours: 3**

### Area III: Management & Administration

- ACCT 201 - Financial Accounting **Credit Hours: 3**
- ACCT 202 - Managerial Accounting **Credit Hours: 3**
- BUSI 221 - Organizational Management **Credit Hours: 3**
- BUSI 241 - Marketing **Credit Hours: 3**
- BUSI 415 - Human Resource Management **Credit Hours: 3**

## Art Major

### Art Major Requirements: (38 Hours)

- One art course elective
- Portfolio for acceptance into major program
- One to three pieces may be retained as part of the student section of the Permanent Art Collection

### Foundation year:

- ART 112 - Drawing I **Credit Hours: 3**
- ART 120 - Three-Dimensional Design **Credit Hours: 3**
- ART 151 - Introduction to Art **Credit Hours: 3**
- ART 170 - Graphic Design I **Credit Hours: 3**

### Additional Requirements:

- ART 121 - Ceramics I **Credit Hours: 3**
- ART 131 - Sculpture I **Credit Hours: 3**
- ART 212 - Drawing II **Credit Hours: 3**
- ART 241 - Painting I **Credit Hours: 3**
- ART 490 - Senior Seminar and Capstone Assessment **Credit Hours: 2**

### Two Courses From

- ART 350 - Art History I **Credit Hours: 3**
- ART 351 - Art History II **Credit Hours: 3**
- ART 352 - Art History III **Credit Hours: 3**

### One Course From

- ART 321 - Ceramics III **Credit Hours: 3**
- ART 331 - Sculpture III **Credit Hours: 3**
- ART 370 - Graphic Design III **Credit Hours: 3**

- ART 412 - Life Drawing **Credit Hours: 3**  
or
- ART 441 - Painting III **Credit Hours: 3**

## Completion of Junior Year Review Prior to the Senior Capstone Review

### Capstone Experience Requirements:

1. Electronic Portfolio development
2. Art-related writings
3. Development of interdisciplinary art
4. Development of inter-cultural diversity art
5. Development of technology related to art

## Art, Minor

### Minor Requirements: (15 Hours)

- ART 112 - Drawing I **Credit Hours: 3**
- ART 121 - Ceramics I **Credit Hours: 3**
- ART 151 - Introduction to Art **Credit Hours: 3**
- ART 170 - Graphic Design I **Credit Hours: 3**

### Electives:

- 3 additional hours of art electives

## Biology Major

### Biology Major Requirements: (46 Credit Hours)

- BIOL 111 - Organismal Biology I **Credit Hours: 3**
- BIOL 107 - Biology Laboratory I **Credit Hours: 1**
- BIOL 112 - Organismal Biology II **Credit Hours: 3**
- BIOL 108 - Biology Laboratory II **Credit Hours: 1**
- BIOL 226 - Introduction to Cell and Molecular Biology **Credit Hours: 3**
- BIOL 306 - Genetics **Credit Hours: 4**
- BIOL 308 - General Ecology **Credit Hours: 4**
- BIOL 336 - Cellular Physiology **Credit Hours: 4**
- BIOL 420 - Senior Seminar **Credit Hours: 3** (taken in the Junior or Senior year)
- CHEM 111 - General Chemistry I **Credit Hours: 4**
- CHEM 112 - General Chemistry II **Credit Hours: 4**
- MATH 140 - Practical Statistics **Credit Hours: 3**  
or

- MATH 170 - Applied College Algebra **Credit Hours: 3**  
or
- any math higher than 170

## Electives:

The remaining 12 credit hours can be completed from the following elective courses:

- BIOL 121 - Anatomy & Physiology I **Credit Hours: 4**
- BIOL 122 - Anatomy & Physiology II **Credit Hours: 4**
- BIOL 213 - Functional Histology **Credit Hours: 4**
- BIOL 221 - Vascular Plant Systematics **Credit Hours: 4**
- BIOL 232 - Vertebrate Natural History **Credit Hours: 4**
- BIOL 240 - Animal Behavior **Credit Hours: 3**
- BIOL 304 - Evolution **Credit Hours: 4**
- BIOL 312 - Microbiology **Credit Hours: 4**
- BIOL 321 - Advanced Botany **Credit Hours: 4**
- BIOL 346 - Pathophysiology **Credit Hours: 3**
- BIOL 368 - Fundamental Neuroscience **Credit Hours: 4**
- BIOL 373 - Comparative Vertebrate Anatomy **Credit Hours: 4**
- BIOL 375 - Molecular Biology **Credit Hours: 4**
- BIOL 385 - Topics in Biology **Credit Hours: 1-4**
- BIOL 421 - Biological Research **Credit Hours: 2**
- BIOL 422 - Biological Research **Credit Hours: 2**
- CVSC 331 - Conservation Biology **Credit Hours: 4**
- NRSC 386 - Neuropharmacology **Credit Hours: 4**

## One Course from the Following List

At most, one course from the following list will count as credit toward biology major electives:

- EVSC 121 - Environmental Issues **Credit Hours: 1**
- EVSC 421 - Topics in Environmental Science **Credit Hours: 1**
- MBIO 211 - Topics in Molecular Biology **Credit Hours: 1**
- MBIO 411 - Topics in Molecular Biology **Credit Hours: 1**
- CVSC 231 - Conservation Science Discussion **Credit Hours: 1**
  
- CVSC 431 - Topics in Conservation Science **Credit Hours: 1**  
or
- NRSC 201 - Topics in Neuroscience **Credit Hours: 1**

## Gen Ed Issues Courses

Gen Ed issues courses (the 106 group) count as two credit hours toward the electives in the major.

BIOL 305 cannot be counted as credit toward the biology major.

## Biology, Minor

## Minor Requirements: (19 Hours)

Only biology courses will count for the minor.

- BIOL 111 - Organismal Biology I **Credit Hours: 3**
- BIOL 107 - Biology Laboratory I **Credit Hours: 1**
- BIOL 112 - Organismal Biology II **Credit Hours: 3**
- BIOL 108 - Biology Laboratory II **Credit Hours: 1**
- BIOL 226 - Introduction to Cell and Molecular Biology **Credit Hours: 3**
- a minimum of eight additional credit hours from courses at the 200-level or higher,

## Business Management Major

### Major Requirements: (42 Hours)

- BUSI 221 - Organizational Management **Credit Hours: 3**
- BUSI 241 - Marketing **Credit Hours: 3**
- BUSI 318 - Managerial Finance **Credit Hours: 3**
- BUSI 495 - Seminar **Credit Hours: 3** (replace with an upper level elective if used for marketing major)
- ACCT 201 - Financial Accounting **Credit Hours: 3**
- ACCT 202 - Managerial Accounting **Credit Hours: 3**
- BUSI 325 - Statistics **Credit Hours: 3**
- or
- ECON 333 - Intermediate Microeconomic Theory **Credit Hours: 3**
- ECON 215 - Principles of Microeconomics **Credit Hours: 3**
- ECON 216 - Principles of Macroeconomics **Credit Hours: 3**
- ECON 311 - Money and Banking **Credit Hours: 3**

### Electives:

4 courses from

- BUSI 325 - Statistics **Credit Hours: 3** (if student also completes ECON 333)
- BUSI 326 - Financial Analysis and Investment **Credit Hours: 3**
- BUSI 360 - Business Law **Credit Hours: 3**
- BUSI 411 - Topics in Business **Credit Hours: 3**
- BUSI 412 - International Business **Credit Hours: 3**
- BUSI 413 - Software Applications for Business **Credit Hours: 3**
- BUSI 414 - Business Ethics **Credit Hours: 3**
- BUSI 415 - Human Resource Management **Credit Hours: 3**
- BUSI 424 - Entrepreneurship **Credit Hours: 3**
- COMM 335 - Small Group Communication **Credit Hours: 3** (cannot count toward both business management and marketing major)
- COMM 345 - Interviewing **Credit Hours: 3**
- COMM 355 - Organizational Communication **Credit Hours: 3**
- ENGL 202 - Business Writing **Credit Hours: 3**
- HLSC 201 - Introduction to Health Administration **Credit Hours: 3**



- HLSC 326 - Health Care Finance **Credit Hours: 3**
- SPST 201 - Facility Management **Credit Hours: 3**
- SPST 441 - Sports Management **Credit Hours: 3**

## Notes

\*Adult undergraduate degree completers should refer to the MAP Guidebook.

## **Business Management Major (MAP)**

Major Requirements: (48 Semester Hours)

Business Management Core Requirements: (30 Credit Hours)

- ACCT 201 - Financial Accounting **Credit Hours: 3**
- ACCT 202 - Managerial Accounting **Credit Hours: 3**
- BUSI 321 - Management Techniques **Credit Hours: 3**
- BUSI 325 - Statistics **Credit Hours: 3**
- BUSI 360 - Business Law **Credit Hours: 3**
- BUSI 414 - Business Ethics **Credit Hours: 3**
- BUSI 420 - Management Information Systems **Credit Hours: 3**
- ECON 215 - Principles of Microeconomics **Credit Hours: 3**
- ECON 216 - Principles of Macroeconomics **Credit Hours: 3**

Choose One of the Following:

- COMM 355 - Organizational Communication **Credit Hours: 3**
- ENGL 202 - Business Writing **Credit Hours: 3**

Business Management Requirements: (18 Credit Hours)

For a complete listing of MAP requirements, policies and procedures please refer to the Muskingum Adult Program Guidebook(pdf).

- BUSI 318 - Managerial Finance **Credit Hours: 3**
- BUSI 326 - Financial Analysis and Investment **Credit Hours: 3**
- BUSI 341 - Marketing Techniques **Credit Hours: 3**
- BUSI 412 - International Business **Credit Hours: 3**
- BUSI 450 - Strategic Management **Credit Hours: 3**
- BUSI 496 - Bachelor of Science Seminar in Business **Credit Hours: 3**

## **Business Management, Minor**

Minor Requirements: (15 Hours)

- ACCT 201 - Financial Accounting **Credit Hours: 3**
- BUSI 221 - Organizational Management **Credit Hours: 3**
- ECON 215 - Principles of Microeconomics **Credit Hours: 3**

## Electives:

two classes from

- BUSI 318 - Managerial Finance **Credit Hours: 3** (if not used to satisfy the Marketing major)
- BUSI 325 - Statistics **Credit Hours: 3** (if not used to satisfy the Marketing major or minor)
- BUSI 326 - Financial Analysis and Investment **Credit Hours: 3**
- BUSI 360 - Business Law **Credit Hours: 3**
- BUSI 411 - Topics in Business **Credit Hours: 3**
- BUSI 412 - International Business **Credit Hours: 3**
- BUSI 413 - Software Applications for Business **Credit Hours: 3**
- BUSI 414 - Business Ethics **Credit Hours: 3**
- BUSI 415 - Human Resource Management **Credit Hours: 3**
- BUSI 424 - Entrepreneurship **Credit Hours: 3**
- ENGL 202 - Business Writing **Credit Hours: 3**
- COMM 335 - Small Group Communication **Credit Hours: 3** (cannot count toward both business management and marketing major)
- COMM 345 - Interviewing **Credit Hours: 3**
- COMM 355 - Organizational Communication **Credit Hours: 3**
- HLSC 201 - Introduction to Health Administration **Credit Hours: 3**
- HLSC 326 - Health Care Finance **Credit Hours: 3**
- SPST 201 - Facility Management **Credit Hours: 3**
  
- SPST 441 - Sports Management **Credit Hours: 3**

## Chemistry Major

Chemistry Major Requirements: (39-40 Hours in Chemistry Including)

- CHEM 111 - General Chemistry I **Credit Hours: 4**
- CHEM 112 - General Chemistry II **Credit Hours: 4**
- CHEM 213 - Organic Chemistry I **Credit Hours: 4**
- CHEM 214 - Organic Chemistry II **Credit Hours: 4**
- CHEM 230 - Foundational Inorganic Chemistry **Credit Hours: 3**
- CHEM 250 - Professional Development for Chemists **Credit Hours: 1**
- CHEM 315 - Physical Chemistry I **Credit Hours: 4**
- CHEM 335 - Analytical Chemistry **Credit Hours: 4**
- CHEM 355 - Advanced Laboratory in Chemistry **Credit Hours: 3**
- CHEM 454 - Chemistry Seminar and Literature Research **Credit Hours: 2**
- CHEM 455 - Chemistry Seminar and Laboratory Research **Credit Hours: 4**
- MATH 190 - Calculus I **Credit Hours: 4**
- MATH 200 - Calculus II **Credit Hours: 4**
- PHEN 121 - Classical Physics I **Credit Hours: 4**

- PHEN 122 - Classical Physics II **Credit Hours: 4**

## Chemistry Electives:

at least one course from

- CHEM 316 - Physical Chemistry II **Credit Hours: 3**
- CHEM 418 - Biochemistry I **Credit Hours: 4**
- CHEM 419 - Biochemistry II **Credit Hours: 3**
- CHEM 425 - Advanced Inorganic Chemistry **Credit Hours: 4**
- CHEM 441 - Forensic Chemistry Laboratory **Credit Hours: 3**
- CHEM 445 - Topics in Modern Chemistry **Credit Hours: 1-3**

## Recommended Electives:

- MATH 140 - Practical Statistics **Credit Hours: 3**
- CPSC 111 - Computer Science I **Credit Hours: 3**
- a world language

## Tracks

- American Chemical Society certification
- American Chemical Society Certification - Biochemistry Track
- Pre-Health Track
- Pre-Pharmacy Track
- Forensic Chemistry Track
- Neurochemistry Track
- [3+1] Major

## Chemistry, Minor

### Minor Requirements: (19 Hours)

- CHEM 111 - General Chemistry I **Credit Hours: 4**
- CHEM 112 - General Chemistry II **Credit Hours: 4**

### Electives:

- 11 hours excluding CHEM 101, CHEM 105, or CHEM 108; and including a minimum of 3 hours at 300-level or above

## Child and Family Studies Major

### Major Requirements:

## Child and Family Studies Core Requirements: (34 Hours)

- EDUC 112 - Educational Implications of Diversity **Credit Hours: 3**
- EDUC 334 - Family-Centered Practices **Credit Hours: 3**
- HLSC 308 - Community Health **Credit Hours: 3**
- PSYC 101 - Introduction to Psychology **Credit Hours: 3**
- PSYC 321 - Social Psychology **Credit Hours: 3**
- SOCI 101 - The Sociological Perspective **Credit Hours: 3**
- SOCI 345 - Sociology of the Family **Credit Hours: 3**
- CHFST 495 - Senior Seminar **Credit Hours: 3**

### Choose one from the following:

- PSYC 220 - Preschool Practicum **Credit Hours: 1**
- PSYC 222 - General Practicum **Credit Hours: 1**

### Choose two from the following:

- PSYC 205 - Child Development **Credit Hours: 3**
- PSYC 208 - Lifespan Development **Credit Hours: 3**
- PSYC 308 - Adolescence and Youth **Credit Hours: 3**
- PSYC 309 - Adulthood and Aging **Credit Hours: 3**

### Choose one from the following:

- CRMJ 390 - Topics in Criminal Justice **Credit Hours: 3**
- PSYC 409 - Topics in Psychology **Credit Hours: 3**
- SOCI 352 - Selected Topics in Sociology **Credit Hours: 3**

## Area of Specialization

(select one)

- Administration Track
- Human Services Track
- Later Life Families

## Communication Studies, Major

### Major Requirements: (31 Hours)

### Communication Studies Major Core Requirements:

- COMM 200 - Fundamentals of Speech Communication **Credit Hours: 3**
- COMM 325 - Communication Theory **Credit Hours: 3**

- COMM 246 - Interpersonal Communication **Credit Hours: 3**
- COMM 335 - Small Group Communication **Credit Hours: 3**
- COMM 360 - Research Methods **Credit Hours: 3**
- COMM 495 - Seminar **Credit Hours: 3**
- MEDIA 210 - Media Literacy **Credit Hours: 3**

### Electives: (10 hours total)

Remaining hours may include up to 6 hours in any performance area and practica, or with departmental approval, a maximum of 6 hours of Theatre. (Practica and Theatre hours may not exceed 6 total credits towards the major)

- COMM 120 - Introduction to Communication **Credit Hours: 3**
- COMM 205 - Professional Speaking **Credit Hours: 3**
- COMM 260 - Oral Interpretation of Literature **Credit Hours: 3**
- COMM 315 - Argumentation **Credit Hours: 3**
- COMM 316 - Intercollegiate Forensics **Credit Hours: 2**
- COMM 330 - Communication, Sports, and America **Credit Hours: 3**
- COMM 328 - Health Communication **Credit Hours: 3**
- COMM 335 - Small Group Communication **Credit Hours: 3**
- COMM 345 - Interviewing **Credit Hours: 3**
- COMM 395 - Special Topics in Communication **Credit Hours: 3-6**
- MEDIA 312 - Electronic Media Structure and Content **Credit Hours: 3**

## Communication Studies, Minor

### Minor Requirements: (15 Hours)

- three hours at 300- or 400-level

## Community Health and Wellness Major (MAP)

**The Community Health & Wellness major is designed for healthcare professionals from a variety of healthcare backgrounds with an Associate of Science (AS) degree who wish to obtain a Bachelor of Science (BS) degree to enable them to explore more holistic clinical practices.**

This major is excellent preparation to serve in one of the emerging community-based services such as Wellness Coaching, Health Coaching, and Health Manager, which are supported by current trends in the American healthcare system and by the Affordable Care Act. Professionals from a variety of clinical backgrounds including occupational therapy and human social services can select this major.

## Major Requirements: (30 Semester Hours for Major)

### Community Health and Wellnes Core Requirements: (12 Credit Hours)

- HLSC 301 - The American Health Care System **Credit Hours: 3**
- HLSC 307 - Health Communication and Promotion **Credit Hours: 3**
- HLSC 495 - Seminar in Health Science **Credit Hours: 3**

Choose one of the following:

- HLSC 304 - Statistics for the Health Sciences **Credit Hours: 3**
- HLSC 305 - Health Informatics **Credit Hours: 3**

### Foundational Core Requirements: (9 Credit Hours)

- HLSC 315 - Public Health and Epidemiology **Credit Hours: 3**
- HLSC 406 - Legal Issues in Healthcare **Credit Hours: 3**
- HLSC 308 - Community Health **Credit Hours: 3**

### Community Health & Wellness Electives: (9 Credit Hours)

Choose Three of the Following:

- HLSC 312 - Social Gerontology **Credit Hours: 3**
- HLSC 331 - Nutrition and Health **Credit Hours: 3**
- HLSC 345 - Personal Health **Credit Hours: 3**
- PSYC 308 - Adolescence and Youth **Credit Hours: 3**
- PSYC 309 - Adulthood and Aging **Credit Hours: 3**
- PSYC 430 - Psychology of Injury **Credit Hours: 3**
- SOCI 320 - Racial and Cultural Minorities **Credit Hours: 3**
- SOCI 345 - Sociology of the Family **Credit Hours: 3**

## Customize Your Curriculum Plan

MAP majors are designed to accomodate the demands of your career and personal life. Most courses are offered multiple times per year within four 10-week terms. This allows you to:

Adjust your course load: take only 1 or up to 4 courses each term

Choose the pace at which you will complete your program: take courses in just one term each year, or in all 4

Customized dual majors and or/minors: Your Health-Related Program Advisor will help you create a curriculum plan to meet your career goals

[Click here for Muskingum Adult Program \(MAP\) General Education and Degree Requirements](#)

For additional information, contact Jennifer Baird, Allied Health Programs Advisor, at [jbaird@muskingum.edu](mailto:jbaird@muskingum.edu) or 740-826-8470

For a complete listing of MAP requirements, policies and procedures please refer to the Muskingum Adult Program Guidebook(pdf).

## Computer Science Major

### Major Requirements: (35 Hours In Computer Science)

- CPSC 100 - Introduction to Computer Science **Credit Hours: 3**
- CPSC 111 - Computer Science I **Credit Hours: 3**
- CPSC 211 - Computer Science II **Credit Hours: 3**
- CPSC 230 - Systems Programming **Credit Hours: 3**
- CPSC 320 - Algorithm Analysis **Credit Hours: 3**
- CPSC 340 - Programming Languages **Credit Hours: 3**
- CPSC 365 - Web Applications and Database Management Systems **Credit Hours: 3**
- CPSC 400 - Programming Projects **Credit Hours: 1**  
or
- an internship in the computing field
- CPSC 450 - Operating Systems **Credit Hours: 3**
- CPSC 455 - Software Engineering **Credit Hours: 3**
- CPSC 495 - Computer Science Seminar **Credit Hours: 1**
- MATH 190 - Calculus I **Credit Hours: 4**
- MATH 240 - Discrete Mathematics I **Credit Hours: 3**
- MATH 250 - Discrete Mathematics II **Credit Hours: 3**
- MATH 230 - Linear Algebra and Vectors **Credit Hours: 3**  
or
- MATH 340 - Mathematical Statistics **Credit Hours: 3**

### Electives:

3 courses from

- CPSC 220 - Applied Computer Programming **Credit Hours: 3**
- CPSC 335 - Computer Security **Credit Hours: 3**
- CPSC 345 - Mobile Application Development **Credit Hours: 3**
- CPSC 430 - 3D Game Programming **Credit Hours: 3**
- CPSC 480 - Computer Networks **Credit Hours: 3**
- CPSC 490 - Advanced Topics in Computer Science **Credit Hours: 3**
- MATH 350 - Numerical Analysis **Credit Hours: 3**

## Computer Science, Minor

### Minor Requirements: (15 Hours)

- CPSC 320 - Algorithm Analysis **Credit Hours: 3**

# Conservation Science Major

## Major Requirements:

### Fundamental Group

#### Requirements:

- BIOL 111 - Organismal Biology I **Credit Hours: 3**
- BIOL 107 - Biology Laboratory I **Credit Hours: 1**
- BIOL 112 - Organismal Biology II **Credit Hours: 3**
- BIOL 108 - Biology Laboratory II **Credit Hours: 1**
- BIOL 226 - Introduction to Cell and Molecular Biology **Credit Hours: 3**
- CHEM 111 - General Chemistry I **Credit Hours: 4**
- CHEM 112 - General Chemistry II **Credit Hours: 4**
- ECON 215 - Principles of Microeconomics **Credit Hours: 3**
- GEOL 101 - Introduction to Geology **Credit Hours: 4**
- POLS 322 - Public Policy **Credit Hours: 3**

### One Course From

- BUSI 325 - Statistics **Credit Hours: 3**
- MATH 140 - Practical Statistics **Credit Hours: 3**
  
- MATH 340 - Mathematical Statistics **Credit Hours: 3**  
or
- PSYC 232 - Behavioral Statistics **Credit Hours: 3**

### Conservation Group

#### Requirements:

- CVSC 331 - Conservation Biology **Credit Hours: 4**
- CVSC 437 - Conservation Science Research Seminar I **Credit Hours: 3**
- CVSC 438 - Conservation Science Research Seminar II **Credit Hours: 2**
- CVSC 439 - Conservation Science Research Seminar III **Credit Hours: 2**
- CVSC 231 - Conservation Science Discussion **Credit Hours: 1**  
or
- CVSC 431 - Topics in Conservation Science **Credit Hours: 1**

### A Group

*(Select at least 11 hours; no more than 8 hours can be selected from the same discipline)*

- BIOL 304 - Evolution **Credit Hours: 4**
- BIOL 306 - Genetics **Credit Hours: 4**



- BIOL 308 - General Ecology **Credit Hours: 4**
- BIOL 312 - Microbiology **Credit Hours: 4**
- BIOL 375 - Molecular Biology **Credit Hours: 4**
- CHEM 213 - Organic Chemistry I **Credit Hours: 4**
- CHEM 214 - Organic Chemistry II **Credit Hours: 4**
- CHEM 235 - Environmental Chemistry **Credit Hours: 4**
- CHEM 335 - Analytical Chemistry **Credit Hours: 4**
- EVSC 421 - Topics in Environmental Science **Credit Hours: 1**
- GEOL 311 - Paleontology **Credit Hours: 3**

## B Group

*(Select at least 12 hours)*

- BUSI 221 - Organizational Management **Credit Hours: 3**
- ECON 333 - Intermediate Microeconomic Theory **Credit Hours: 3**
- PHIL 203 - Introduction to Ethics **Credit Hours: 3**
- PHIL 331 - Environmental Ethics **Credit Hours: 3**
- RELG 393 - Global Issues and Values **Credit Hours: 3**
- SOCI 370 - Environmental Sociology **Credit Hours: 3**

## Criminal Justice Major

### Major Requirements: (36 Hours)

(18 Hours)

- CRMJ 101 - Introduction to Criminal Justice **Credit Hours: 3**
- CRMJ 230 - American Law Enforcement **Credit Hours: 3**
- CRMJ 250 - American Courts **Credit Hours: 3**
- CRMJ 270 - American Corrections **Credit Hours: 3**
- CRMJ 240 - Introduction to Research Methods **Credit Hours: 3**
- or
- POLS 240 - Introduction to Research Methods **Credit Hours: 3**
- CRMJ 490 - Senior Seminar **Credit Hours: 3**
- or
- POLS 490 - Senior Seminar **Credit Hours: 3**

### Electives:

(18 hours, at least nine of which must be from CRMJ. No more than six hours may come from the following)

- IDIS 300 - Internship **Credit Hours: 1-6**
- POLS 317 - Constitutional Law II: Civil Rights and Liberties **Credit Hours: 3**
- POLS 321 - Public Administration **Credit Hours: 3**
- POLS 322 - Public Policy **Credit Hours: 3**
- POLS 324 - Urban Politics **Credit Hours: 3**

- PSYC 290 - Theories of Personality **Credit Hours: 3**
- PSYC 308 - Adolescence and Youth **Credit Hours: 3**
- PSYC 363 - Abnormal Psychology **Credit Hours: 3**
- POLS 377 - Hate Crimes **Credit Hours: 3**
- SOCI 216 - Social Problems in Contemporary America **Credit Hours: 3**
- SOCI 301 - American Society: Class and Culture **Credit Hours: 3**
- SOCI 320 - Racial and Cultural Minorities **Credit Hours: 3**

## **Criminal Justice, Minor**

### **Minor Requirements: (15 Hours)**

- CRMJ 101 - Introduction to Criminal Justice **Credit Hours: 3**
- three additional CRMJ courses (at least one at the 300- or 400-level)

one from

- CRMJ 230 - American Law Enforcement **Credit Hours: 3**
- CRMJ 250 - American Courts **Credit Hours: 3**
- CRMJ 270 - American Corrections **Credit Hours: 3**

## **Digital Media Design Major**

### **Major Requirements: (42 Hours)**

#### **Digital Media Design Core Requirements: (30 Hours)**

- ART 170 - Graphic Design I **Credit Hours: 3**
- BUSI 241 - Marketing **Credit Hours: 3**
- CPSC 100 - Introduction to Computer Science **Credit Hours: 3**
- DMD 398 - Directed Design Project **Credit Hours: 3**
- DMD 399 - Internship **Credit Hours: 3**
- DMD 400 - Principles of Interactive Design **Credit Hours: 3**
- DMD 495 - Seminar **Credit Hours: 3**
- MEDIA 150 - Introduction to Convergent Media **Credit Hours: 3**
- MEDIA 210 - Media Literacy **Credit Hours: 3**
- MEDIA 300 - Visual Communication **Credit Hours: 3**

#### **Specialization Areas: (12 Hours) Choose ONE Group**

Art:

- ART 112 - Drawing I **Credit Hours: 3**
- ART 151 - Introduction to Art **Credit Hours: 3**

- ART 270 - Graphic Design II **Credit Hours: 3**
- ART 352 - Art History III **Credit Hours: 3**

#### Business:

- BUSI 221 - Organizational Management **Credit Hours: 3**
- BUSI 417 - Advertising **Credit Hours: 3**
- BUSI 419 - Consumer Behavior **Credit Hours: 3**
- BUSI 422 - Marketing Research **Credit Hours: 3**

#### Computer Science:

- CPSC 111 - Computer Science I **Credit Hours: 3**
- CPSC 211 - Computer Science II **Credit Hours: 3**
- CPSC 345 - Mobile Application Development **Credit Hours: 3**
- CPSC 365 - Web Applications and Database Management Systems **Credit Hours: 3**

#### Media:

- COMM 360 - Research Methods **Credit Hours: 3**
- MEDIA 240 - Broadcast Writing and Reporting **Credit Hours: 3**
- MEDIA 308 - Single Camera Video Production and Editing **Credit Hours: 3**
- MEDIA 365 - Audio Production **Credit Hours: 3**

#### Theatre:

- THEA 245 - Technical Production **Credit Hours: 3**
- THEA 265 - Design I: Explorations in Theatre Design **Credit Hours: 3**
- THEA 351 - World Theatre History **Credit Hours: 3**
- THEA 365 - Design II: Intermediate Studies in Theatre Design **Credit Hours: 3**

## Digital Media Design, Minor

### Minor Requirements: (15 Hours)

- ART 170 - Graphic Design I **Credit Hours: 3**
- DMD 400 - Principles of Interactive Design **Credit Hours: 3**
- MEDIA 150 - Introduction to Convergent Media **Credit Hours: 3**
- MEDIA 210 - Media Literacy **Credit Hours: 3**
- MEDIA 300 - Visual Communication **Credit Hours: 3**

## Early Childhood Education Major

Early Childhood Education Major prepares individuals to teach children in grades pre-kindergarten through 5.

## Major Requirements:

- EDUC 110 - Introduction to Education **Credit Hours: 1**
- EDUC 112 - Educational Implications of Diversity **Credit Hours: 3**
- EDUC 215 - Educational Psychology **Credit Hours: 3**
- EDUC 220 - Mathematics Content for Early Childhood and Intervention Specialist Teachers **Credit Hours: 3**
- EDUC 309 - Early Childhood Education and Curriculum **Credit Hours: 3**
- EDUC 315 - The Arts in Early Childhood **Credit Hours: 3**
- EDUC 316 - Children's Literature **Credit Hours: 3**
- EDUC 330 - Serving Individuals with Exceptionalities **Credit Hours: 3**
- EDUC 334 - Family-Centered Practices **Credit Hours: 3**
- EDUC 335 - Educational Technology **Credit Hours: 3**
- EDUC 341 - Assessment in Education **Credit Hours: 3**
- EDUC 362 - Integrating Language Arts and Social Studies in Early Childhood **Credit Hours: 3**
- EDUC 366 - Mathematics in Early Childhood Education **Credit Hours: 3**
- EDUC 367 - Science in Early Primary Education **Credit Hours: 3**
- EDUC 368 - Integrated Sciences for Early Childhood Instruction Grades 4-5 **Credit Hours: 3**
- EDUC 370 - Phonics and the Process of Reading **Credit Hours: 3**
- EDUC 371 - Emergent through Adolescent Literacy **Credit Hours: 3**
- EDUC 382 - Social Studies Methods for Middle Childhood Educators **Credit Hours: 3**
- EDUC 412 - Reading and Writing for Information **Credit Hours: 3**
- EDUC 414 - Reading Assessment and Intervention **Credit Hours: 3**
- EDUC 418 - Professional Practices for Early Childhood **Credit Hours: 2**
- EDUC 419 - Co-teaching and Collaboration in Education **Credit Hours: 2**
- EDUC 420 - Proactive Approaches to Classroom Management and Support **Credit Hours: 2**
- EDUC 449 - Student Teaching in Early Childhood **Credit Hours: 9**
- EDUC 461 - Student Teaching Seminar **Credit Hours: 1**
- PSYC 220 - Preschool Practicum **Credit Hours: 1** (preschool)
- SOCI 101 - The Sociological Perspective **Credit Hours: 3** \*

## Notes

\*SOCI 101 not required for transfer module student.

## Earth Science Major

### Earth Science Major Requirements: (25-26 Hours in Geology)

- GEOL 101 - Introduction to Geology **Credit Hours: 4**  
or
- GEOL 110 - Environmental Geology **Credit Hours: 4**
- GEOL 104 - Earth History **Credit Hours: 4**
- GEOL 200 - Oceanography **Credit Hours: 3**
- GEOL 220 - Landform Evolution **Credit Hours: 3**

- GEOL 301 - Mineralogy **Credit Hours: 4**
- GEOL 302 - Igneous and Metamorphic Petrology **Credit Hours: 3**
- GEOL 495 - Literature Seminar **Credit Hours: 2**
  
- CHEM 105 - Issues in the Chemical Sciences **Credit Hours: 4**  
or
- CHEM 111 - General Chemistry I **Credit Hours: 4**
  
- GEOG 321 - Weather and Climate **Credit Hours: 3**
  
- PHEN 101 - Conceptual Physics **Credit Hours: 4**  
or
- PHEN 115 - Introductory Physics I **Credit Hours: 4**  
or
- PHEN 121 - Classical Physics I **Credit Hours: 4**
  
- PHEN 150 - Introduction to Astronomy **Credit Hours: 4**

### Select Three From:

- GEOL 303 - Sedimentary Petrology **Credit Hours: 3**
- GEOL 311 - Paleontology **Credit Hours: 3**
- GEOL 313 - Structural Geology **Credit Hours: 3**
  
- GEOL 322 - Sedimentology and Stratigraphy **Credit Hours: 3**  
or
- GEOG 310 - Introduction to Geographic Information Systems **Credit Hours: 3**

### Select One From:

- GEOL 295 - Research Experience **Credit Hours: 1-3**
- GEOL 496 - Senior Research **Credit Hours: 3**

### Select One From:

- MATH 170 - Applied College Algebra **Credit Hours: 3**
- MATH 180 - Precalculus **Credit Hours: 4**
- MATH 190 - Calculus I **Credit Hours: 4**

## Earth Science, Minor

### Minor Requirements: (At Least 17 Hours)

- GEOL 101 - Introduction to Geology **Credit Hours: 4**  
or
- GEOL 110 - Environmental Geology **Credit Hours: 4**
- GEOL 104 - Earth History **Credit Hours: 4**

- GEOL 200 - Oceanography **Credit Hours: 3**
- two more GEOL courses at the 300-level

## **Economics Major**

### **Major Requirements: (36 Hours)**

- ECON 215 - Principles of Microeconomics **Credit Hours: 3**
- ECON 216 - Principles of Macroeconomics **Credit Hours: 3**
- ECON 311 - Money and Banking **Credit Hours: 3**
- ECON 333 - Intermediate Microeconomic Theory **Credit Hours: 3**
- ECON 495 - Seminar **Credit Hours: 3**
- ACCT 201 - Financial Accounting **Credit Hours: 3**
- BUSI 325 - Statistics **Credit Hours: 3**

### **Electives:**

- two 300- or 400-level ECON courses and three additional ACCT, BUSI, or ECON courses

## **Economics, Minor**

### **Minor Requirements: (15 Hours)**

- ECON 215 - Principles of Microeconomics **Credit Hours: 3**
- ECON 216 - Principles of Macroeconomics **Credit Hours: 3**
- ECON 311 - Money and Banking **Credit Hours: 3**
- ECON 333 - Intermediate Microeconomic Theory **Credit Hours: 3**
- ACCT 201 - Financial Accounting **Credit Hours: 3**

## **English Major**

### **English Major Requirements: (30 Hours Not Including 121)**

- ENGL 231 - British Literature to 1800 **Credit Hours: 3**  
or
- ENGL 232 - British Literature after 1800 **Credit Hours: 3**
- ENGL 233 - American Literature to 1865 **Credit Hours: 3**  
or
- ENGL 234 - American Literature after 1865 **Credit Hours: 3**
- ENGL 320 - Principles of Literary Study **Credit Hours: 3**
- ENGL 495 - Seminar **Credit Hours: 3**
- 12 hours at 300-level or above

## English, Minor

Minor Requirements: (15 hours not including 121)

- 3 hours ENGL at 300-level or above

## Environmental Science Major

Major Requirements:

Environmental Science Core Requirements: (41 hours)

- BIOL 106 - Contemporary Biologic Issues **Credit Hours: 4** (Environmental Science)  
or
- BIOL 111 - Organismal Biology I **Credit Hours: 3** And
- BIOL 107 - Biology Laboratory I **Credit Hours: 1**
- BIOL 112 - Organismal Biology II **Credit Hours: 3** And
- BIOL 108 - Biology Laboratory II **Credit Hours: 1**
  
- CHEM 111 - General Chemistry I **Credit Hours: 4**
- CHEM 112 - General Chemistry II **Credit Hours: 4**
- CHEM 235 - Environmental Chemistry **Credit Hours: 4**
- GEOL 101 - Introduction to Geology **Credit Hours: 4**  
or
- GEOL 110 - Environmental Geology **Credit Hours: 4**
  
- GEOL 104 - Earth History **Credit Hours: 4**
- PHEN 101 - Conceptual Physics **Credit Hours: 4**  
or
- PHEN 115 - Introductory Physics I **Credit Hours: 4**  
or
- PHEN 121 - Classical Physics I **Credit Hours: 4**
- EVSC 121 - Environmental Issues **Credit Hours: 1**
- EVSC 421 - Topics in Environmental Science **Credit Hours: 1**
- EVSC 422 - Advanced Internship in Environmental Science **Credit Hours: 4**  
or
- EVSC 428 - Environmental Science Senior Research **Credit Hours: 4**

Select One From:

- MATH 140 - Practical Statistics **Credit Hours: 3**
- BUSI 325 - Statistics **Credit Hours: 3**
- PSYC 232 - Behavioral Statistics **Credit Hours: 3**

Core Electives:

(Select a minimum of 2 courses from)

- CPSC 100 - Introduction to Computer Science **Credit Hours: 3**
- GEOG 111 - World Regional Geography **Credit Hours: 3**
- GEOG 310 - Introduction to Geographic Information Systems **Credit Hours: 3**
- GEOL 313 - Structural Geology **Credit Hours: 3**
- GEOL 322 - Sedimentology and Stratigraphy **Credit Hours: 3**
- MATH 190 - Calculus I **Credit Hours: 4**
- MATH 230 - Linear Algebra and Vectors **Credit Hours: 3**
- MATH 350 - Numerical Analysis **Credit Hours: 3**
- PHEN 116 - Introductory Physics II **Credit Hours: 4**
- or
- PHEN 122 - Classical Physics II **Credit Hours: 4**

## Any one course from

Any one course from biology, chemistry, or geoscience track which does not already fulfill a major requirement.

- BIOL 226 - Introduction to Cell and Molecular Biology **Credit Hours: 3**
- BIOL 232 - Vertebrate Natural History **Credit Hours: 4**
- BIOL 306 - Genetics **Credit Hours: 4**
- BIOL 308 - General Ecology **Credit Hours: 4**
- BIOL 312 - Microbiology **Credit Hours: 4**
- BIOL 375 - Molecular Biology **Credit Hours: 4**
- CHEM 213 - Organic Chemistry I **Credit Hours: 4**
- CHEM 214 - Organic Chemistry II **Credit Hours: 4**
- CHEM 315 - Physical Chemistry I **Credit Hours: 4**
- CHEM 335 - Analytical Chemistry **Credit Hours: 4**
- CVSC 331 - Conservation Biology **Credit Hours: 4**
- GEOG 321 - Weather and Climate **Credit Hours: 3**
- GEOL 200 - Oceanography **Credit Hours: 3**
- GEOL 220 - Landform Evolution **Credit Hours: 3**
- GEOL 301 - Mineralogy **Credit Hours: 4**
- GEOL 302 - Igneous and Metamorphic Petrology **Credit Hours: 3**
- MATH 200 - Calculus II **Credit Hours: 4**

## Complete Requirements for at Least One Track:

- Biology Track
- Chemistry Track
- Geoscience Track
- Social Science Track

## Exercise Science Major

### Major Requirements:



- HLSC 110 - Medical Terminology I **Credit Hours: 1**
- HLSC 111 - Medical Terminology II **Credit Hours: 1**
- EXSC 120 - Introduction to Exercise Science **Credit Hours: 3**
- EXSC 140 - Prevention & Care of Orthopedic Injuries **Credit Hours: 3**
- EXSC 210 - First Aid and CPR **Credit Hours: 3**
- EXSC 315 - Electrocardiography (ECG) Analysis **Credit Hours: 1**
- EXSC 336 - Principles of Strength and Conditioning **Credit Hours: 3**
- EXSC 337 - Exercise Testing and Prescription **Credit Hours: 3**
- EXSC 338 - Kinesiology **Credit Hours: 3**
- EXSC 349 - Advanced Exercise Physiology **Credit Hours: 3**
- EXSC 380 - Pharmacology for the Exercise Professional **Credit Hours: 3**
- EXSC 470 - Organization and Administration **Credit Hours: 3**
- EXSC 490 - Research Methods **Credit Hours: 3**
- EXSC 495 - Senior Seminar **Credit Hours: 3**
- NUTR 131 - Introduction to Nutrition **Credit Hours: 3**
- NUTR 332 - Sport Nutrition and Supplementation **Credit Hours: 3**
- BIOL 121 - Anatomy & Physiology I **Credit Hours: 4**
- BIOL 122 - Anatomy & Physiology II **Credit Hours: 4**
- CHEM 111 - General Chemistry I **Credit Hours: 4**

## Electives:

12 credits from the following list

- EXSC 170 - Orthopedic Anatomy **Credit Hours: 3**
- EXSC 250 - Cultural Competency in Healthcare **Credit Hours: 3**
- EXSC 260 - Rehabilitation Techniques in Exercise **Credit Hours: 3**
- EXSC 333 - Motor Learning and Performance **Credit Hours: 3**
- EXSC 370 - General Medical Conditions **Credit Hours: 3**
- EXSC 375 - Therapeutic Modalities **Credit Hours: 3**
- HLSC 308 - Community Health **Credit Hours: 3**

## Film Studies, Minor

### Minor Requirements: (17 Hours)

- IDIS 160 - Introduction to Film Studies **Credit Hours: 3**
- IDIS 260 - Topics in Film Studies **Credit Hours: 1** (taken twice)

## Electives:

12 hours from

- ENGL 386 - Topics in Film and Literature **Credit Hours: 3**
- MEDIA 210 - Media Literacy **Credit Hours: 3**
- MEDIA 300 - Visual Communication **Credit Hours: 3**
- MEDIA 308 - Single Camera Video Production and Editing **Credit Hours: 3**
- POLS 372 - Politics in Film **Credit Hours: 3**

- RELG 352 - Religion and Film **Credit Hours: 3**
- SOCI 301 - American Society: Class and Culture **Credit Hours: 3**
- SOCI 342 - Gender, Film, and Society **Credit Hours: 3**
- THEA 350 - A History of Film **Credit Hours: 3**

## **French**

### **French Major Requirements: (33 Hours Beyond 112)**

Study Abroad, FREN 310, FREN 431, one course in another foreign language at the appropriate level. Enrollment in French Table (FREN 251/FREN 291) expected every semester, required when not enrolled in a French course; 2 hours applied to major or minor. No more than one upper level French course taught in English is allowed to count toward major requirements.

### **Education Licensure**

Multi-age world language licensure in French pre-K through 21 is offered. Teacher licensure candidates must meet the requirements of Muskingum University and the Ohio Department of Education for teacher licensure. Contact the education department on campus for specific course requirements. Licensure candidates are required to maintain a minimum average GPA of 3.0 in their language course work, earn a minimum grade of B- in WRLD 397, and pass the content tests required by the State of Ohio for teacher licensure prior to student teaching. Completion of requirements may take 8 semesters in addition to student teaching.

## **French Major**

### **French Major Requirements: (33 Hours Beyond 112)**

Study Abroad, FREN 310, FREN 431, one course in another foreign language at the appropriate level. Enrollment in French Table (FREN 251/FREN 291) expected every semester, required when not enrolled in a French course; 2 hours applied to major or minor. No more than one upper level French course taught in English is allowed to count toward major requirements.

## **French, Minor**

### **Minor Requirements: (19 Hours)**

- 19 credit hours in French courses taught in French, to include FREN 240 or one 300 level course taught in French

## **Gender Studies, Minor**

### **Minor Requirements: (15 Hours)**

- 15 credit hours from three departments and two academic divisions; at least six hours at the 300-level or above; and IDIS 291.

## Social Science Division:

- HIST 220 - US Women's History **Credit Hours: 3**
- HIST 378 - Gender and Sexuality in American History **Credit Hours: 3** (with the addition of a major paper, topic to be approved by the program advisor)
- HLSC 312 - Social Gerontology **Credit Hours: 3**
- PSYC 321 - Social Psychology **Credit Hours: 3**
- SOCI 330 - Human Sexuality **Credit Hours: 3**
- SOCI 342 - Gender, Film, and Society **Credit Hours: 3**
- SOCI 345 - Sociology of the Family **Credit Hours: 3**

## Arts and Humanities Division:

- COMM 340 - Gender Communication **Credit Hours: 3**
- ENGL 387 - Topics in Literature and Gender **Credit Hours: 3**
- FREN 325 - Topics in French Civilization **Credit Hours: 3**
- RELG 261 - Women and the Bible **Credit Hours: 3**
- RELG 353 - Religion and Gender **Credit Hours: 3**

## Education Division:

- SPST 355 - Sports Ethics **Credit Hours: 3**

## Science Division:

- BIOL 122 - Anatomy & Physiology II **Credit Hours: 4**

## Options:

Special topic courses in other departments (Political Science, Business, Education, Art, Psychology, Neuroscience, and Conservation Science, for example) could also count toward the Gender Studies minor. Internships (up to three credit hours) consisting of placement at an agency dealing with gender-based concerns (sexual assault intervention, shelter work, etc.), writing, designing or editing Gender Studies newsletter or journal, working with programs in the schools (to encourage nontraditional careers, for example, or to assist single parents). Directed or independent study, cross-listed courses from a variety of departments.

## General Engineering Major

### Major Requirements: (88 Hours)

- PHEN 110 - Introduction to Physics and Engineering **Credit Hours: 2**
- PHEN 111 - Career Development in Physics and Engineering **Credit Hours: 1**
- PHEN 121 - Classical Physics I **Credit Hours: 4**
- PHEN 122 - Classical Physics II **Credit Hours: 4**
- PHEN 203 - Modern Physics **Credit Hours: 4**
- PHEN 210 - Statics **Credit Hours: 4**

- PHEN 211 - Dynamics **Credit Hours: 3**
- PHEN 235 - Electrical Circuit Analysis and Design **Credit Hours: 4**
- PHEN 300 - Material Science **Credit Hours: 4**
- PHEN 310 - Optics **Credit Hours: 4**
- PHEN 320 - Thermodynamics **Credit Hours: 4**
- PHEN 330 - Principles of Design **Credit Hours: 3**
- PHEN 370 - Electromagnetics **Credit Hours: 3**
- PHEN 405 - Signals and Systems **Credit Hours: 3**
- PHEN 410 - Measurements **Credit Hours: 3**
- PHEN 415 - Control Systems **Credit Hours: 3**
- PHEN 420 - Fluid Mechanics **Credit Hours: 4**
- PHEN 435 - Engineering Economics, Ethics, and Society **Credit Hours: 3**
- PHEN 490 - Introduction to General Engineering Senior Project **Credit Hours: 1**
- PHEN 495 - General Engineering Senior Project **Credit Hours: 3**
- CHEM 111 - General Chemistry I **Credit Hours: 4**
- CPSC 100 - Introduction to Computer Science **Credit Hours: 3**
- MATH 190 - Calculus I **Credit Hours: 4**
- MATH 200 - Calculus II **Credit Hours: 4**
- MATH 230 - Linear Algebra and Vectors **Credit Hours: 3**
- MATH 310 - Calculus III **Credit Hours: 3**
- MATH 320 - Differential Equations **Credit Hours: 3** (automatic Math minor)
- Students must take the Fundamentals of Engineering Exam in the last semester of their senior year.

## **General Engineering, Minor**

### **Minor Requirements: (33 Hours)**

- PHEN 110 - Introduction to Physics and Engineering **Credit Hours: 2**
- PHEN 121 - Classical Physics I **Credit Hours: 4**
- PHEN 122 - Classical Physics II **Credit Hours: 4**
- PHEN 203 - Modern Physics **Credit Hours: 4**
- PHEN 330 - Principles of Design **Credit Hours: 3**
- MATH 190 - Calculus I **Credit Hours: 4**
- MATH 200 - Calculus II **Credit Hours: 4**

### **Two of the following:**

- PHEN 210 - Statics **Credit Hours: 4**
- PHEN 235 - Electrical Circuit Analysis and Design **Credit Hours: 4**
- PHEN 300 - Material Science **Credit Hours: 4**
- PHEN 310 - Optics **Credit Hours: 4**
- PHEN 410 - Measurements **Credit Hours: 3**

## **Geology, BA Major**

## Major Requirements: (29 Hours in Geology)

- GEOL 101 - Introduction to Geology **Credit Hours: 4**  
or
- GEOL 110 - Environmental Geology **Credit Hours: 4**
  
- GEOL 104 - Earth History **Credit Hours: 4**
- GEOL 301 - Mineralogy **Credit Hours: 4**
- GEOL 302 - Igneous and Metamorphic Petrology **Credit Hours: 3**
- GEOL 303 - Sedimentary Petrology **Credit Hours: 3**
- GEOL 311 - Paleontology **Credit Hours: 3**
- GEOL 313 - Structural Geology **Credit Hours: 3**
- GEOL 322 - Sedimentology and Stratigraphy **Credit Hours: 3**
- GEOL 495 - Literature Seminar **Credit Hours: 2**
- CHEM 111 - General Chemistry I **Credit Hours: 4**
- GEOG 310 - Introduction to Geographic Information Systems **Credit Hours: 3**
  
- MATH 170 - Applied College Algebra **Credit Hours: 3**  
or
- MATH 180 - Precalculus **Credit Hours: 4**
  
- PHEN 101 - Conceptual Physics **Credit Hours: 4**  
or
- PHEN 115 - Introductory Physics I **Credit Hours: 4**

## Two Courses from the Following List:

- ECON 215 - Principles of Microeconomics **Credit Hours: 3**
- HIST 385 - American Environmental History **Credit Hours: 3**
- PHIL 331 - Environmental Ethics **Credit Hours: 3**
- POLS 321 - Public Administration **Credit Hours: 3**
- POLS 322 - Public Policy **Credit Hours: 3**
- POLS 323 - Administrative Law **Credit Hours: 3**
- RELG 393 - Global Issues and Values **Credit Hours: 3**
- SOCI 370 - Environmental Sociology **Credit Hours: 3**

## Geology, BS Major

### Geology Major Requirements: (35 Hours in Geology)

- GEOL 101 - Introduction to Geology **Credit Hours: 4**  
or
- GEOL 110 - Environmental Geology **Credit Hours: 4**
  
- GEOL 104 - Earth History **Credit Hours: 4**
- GEOL 301 - Mineralogy **Credit Hours: 4**
- GEOL 302 - Igneous and Metamorphic Petrology **Credit Hours: 3**

- GEOL 303 - Sedimentary Petrology **Credit Hours: 3**
- GEOL 313 - Structural Geology **Credit Hours: 3**
- GEOL 322 - Sedimentology and Stratigraphy **Credit Hours: 3**
- GEOL 495 - Literature Seminar **Credit Hours: 2**
- GEOL 496 - Senior Research **Credit Hours: 3**
- CHEM 111 - General Chemistry I **Credit Hours: 4**
- CHEM 112 - General Chemistry II **Credit Hours: 4**
- GEOG 310 - Introduction to Geographic Information Systems **Credit Hours: 3**
  
- MATH 170 - Applied College Algebra **Credit Hours: 3**  
or
- MATH 180 - Precalculus **Credit Hours: 4**  
or
- MATH 190 - Calculus I **Credit Hours: 4**

## Two From Among

- GEOL 200 - Oceanography **Credit Hours: 3**
- GEOL 220 - Landform Evolution **Credit Hours: 3**
- GEOL 311 - Paleontology **Credit Hours: 3**

## Physics Requirement

Take one group: PHEN 115/PHEN 116 or PHEN 121/122

- PHEN 115 - Introductory Physics I **Credit Hours: 4**  
and
- PHEN 116 - Introductory Physics II **Credit Hours: 4**  
or
- PHEN 121 - Classical Physics I **Credit Hours: 4**  
and
- PHEN 122 - Classical Physics II **Credit Hours: 4**

## A Six Credit Summer Field Geology Course (Approved by the Department)

### Recommended for Graduate School:

Calculus and 2 courses in each of physics and engineering (PHEN), biology (BIOL), world languages (FREN, GERM, SPAN).

## Geology, Minor

### Minor Requirements: (At Least 16 Hours)

- GEOL 101 - Introduction to Geology **Credit Hours: 4**  
or

- GEOL 110 - Environmental Geology **Credit Hours: 4**
- GEOL 301 - Mineralogy **Credit Hours: 4**
- GEOL 302 - Igneous and Metamorphic Petrology **Credit Hours: 3**  
or
- GEOL 303 - Sedimentary Petrology **Credit Hours: 3**
- two more GEOL courses

## **German Major**

(Not Accepting New Majors)

### **German Major Requirements: (36 Hours)**

(36 hours if started at GERM 111; 33 hours if started at GERM 112 or GERM 211)

Study Abroad, GERM 123, GERM 310, GERM 431, one course in another foreign language at the appropriate level. Enrollment in German Table (GERM 251/GERM 291) expected every semester, required when not enrolled in a German course; 2 hours applied to major or minor. No more than one upper-level German course taught in English is allowed to count toward major requirements.

## **German, Minor**

### **Minor Requirements: (19 Hours)**

- 19 credit hours in German courses taught in German, to include one 300 level course taught in German.

## **Health Administration Major**

### **Major Requirements:**

#### **Health Administration Core Requirements:**

- HLSC 110 - Medical Terminology I **Credit Hours: 1**
- HLSC 111 - Medical Terminology II **Credit Hours: 1**
- HLSC 201 - Introduction to Health Administration **Credit Hours: 3**
- HLSC 307 - Health Communication and Promotion **Credit Hours: 3**
- HLSC 315 - Public Health and Epidemiology **Credit Hours: 3**
- HLSC 322 - Health Policy **Credit Hours: 3**
- HLSC 326 - Health Care Finance **Credit Hours: 3**
- HLSC 395 - Professional Seminar **Credit Hours: 1**
- HLSC 396 - Health Administration Internship **Credit Hours: 3-6**
- HLSC 497 - Seminar in Health Administration **Credit Hours: 2**

## Business Core Competency:

- BUSI 221 - Organizational Management **Credit Hours: 3**
- BUSI 415 - Human Resource Management **Credit Hours: 3**

## Electives:

Choose at least one course from each category

### Business/management:

- ACCT 201 - Financial Accounting **Credit Hours: 3**
- ACCT 202 - Managerial Accounting **Credit Hours: 3**
- BUSI 241 - Marketing **Credit Hours: 3**
- BUSI 318 - Managerial Finance **Credit Hours: 3**
- BUSI 360 - Business Law **Credit Hours: 3**
- BUSI 413 - Software Applications for Business **Credit Hours: 3**
- BUSI 420 - Management Information Systems **Credit Hours: 3**
- POLS 321 - Public Administration **Credit Hours: 3**
- POLS 325 - Public Sector Human Resource Management **Credit Hours: 3**

### Ethics:

- BUSI 414 - Business Ethics **Credit Hours: 3**
- PHIL 305 - Biomedical Ethics **Credit Hours: 3**

### Statistics:

- BUSI 325 - Statistics **Credit Hours: 3**
- HLSC 304 - Statistics for the Health Sciences **Credit Hours: 3**
- PSYC 231 - Applied Statistics **Credit Hours: 3**
- PSYC 232 - Behavioral Statistics **Credit Hours: 3**

## Health Administration, Minor

### Minor Requirements: (18 Hours)

- ACCT 201 - Financial Accounting **Credit Hours: 3**
- BUSI 221 - Organizational Management **Credit Hours: 3**
- HLSC 110 - Medical Terminology I **Credit Hours: 1**
- HLSC 111 - Medical Terminology II **Credit Hours: 1**
- HLSC 201 - Introduction to Health Administration **Credit Hours: 3**
- HLSC 307 - Health Communication and Promotion **Credit Hours: 3**
- HLSC 322 - Health Policy **Credit Hours: 3**



# Health and Fitness Major

## Major Requirements: (32 Hours)

- EXSC 131 - Human Structure and Function **Credit Hours: 4**
- EXSC 249 - Exercise Physiology **Credit Hours: 3**
- EXSC 336 - Principles of Strength and Conditioning **Credit Hours: 3**
- EXSC 337 - Exercise Testing and Prescription **Credit Hours: 3**
- EXSC 498 - Seminar in Health and Fitness **Credit Hours: 3**
- HLSC 110 - Medical Terminology I **Credit Hours: 1**
- NUTR 131 - Introduction to Nutrition **Credit Hours: 3**

## Electives:

12 hours chosen from the following

- EXSC 333 - Motor Learning and Performance **Credit Hours: 3**
- EXSC 338 - Kinesiology **Credit Hours: 3**
- EXSC 349 - Advanced Exercise Physiology **Credit Hours: 3**
- HLSC 307 - Health Communication and Promotion **Credit Hours: 3**
- HLSC 308 - Community Health **Credit Hours: 3**
- HLSC 345 - Personal Health **Credit Hours: 3**
- NUTR 332 - Sport Nutrition and Supplementation **Credit Hours: 3**
- SPST 203 - Foundations of Athletic Skill **Credit Hours: 3**

# Health and Fitness, Minor

## Minor Requirements: (16 Hours)

- EXSC 131 - Human Structure and Function **Credit Hours: 4**
- EXSC 249 - Exercise Physiology **Credit Hours: 3**
- EXSC 337 - Exercise Testing and Prescription **Credit Hours: 3**
- NUTR 131 - Introduction to Nutrition **Credit Hours: 3**

## One of the following:

- EXSC 333 - Motor Learning and Performance **Credit Hours: 3**
- EXSC 336 - Principles of Strength and Conditioning **Credit Hours: 3**
- EXSC 338 - Kinesiology **Credit Hours: 3**
- EXSC 349 - Advanced Exercise Physiology **Credit Hours: 3**
- HLSC 307 - Health Communication and Promotion **Credit Hours: 3**
- HLSC 345 - Personal Health **Credit Hours: 3**
- HLSC 308 - Community Health **Credit Hours: 3**
- NUTR 332 - Sport Nutrition and Supplementation **Credit Hours: 3**

## **Health Education Major**

### Health Education Major Requirements: (32 Hours)

- BIOL 106 - Contemporary Biologic Issues **Credit Hours: 4** (Genetic Frontiers and Biotechnology, Human Biology, or Human Diseases)
- EXSC 131 - Human Structure and Function **Credit Hours: 4**
- EXSC 210 - First Aid and CPR **Credit Hours: 3**
- EXSC 249 - Exercise Physiology **Credit Hours: 3**
- HLSC 308 - Community Health **Credit Hours: 3**
- HLSC 345 - Personal Health **Credit Hours: 3**
- HLTH 400 - Health Curriculum, Methods, and Materials **Credit Hours: 3**
- NUTR 131 - Introduction to Nutrition **Credit Hours: 3**
- PE 470 - Administration, Organization, and Supervision of Health, Physical Education and Sports Programs **Credit Hours: 3**

## **Health Education, Minor**

### Minor Requirements: (15 Hours)

- Fifteen hours of HLTH courses with at least 3 hours at the 300- or 400-level

## **Health Science Major (MAP)**

**The Health Science major is designed for allied health professionals with an Associate of Science (AS) degree who wish to obtain a Bachelor of Science (BS) degree in preparation for attending a science-based graduate program.**

The major focuses primarily on the physical and natural sciences. Although students from a variety of allied health backgrounds select this major, most are preparing to attend graduate programs in Physician Assistant, Pathologist Assistant, Radiologist Assistant, Master in Occupational Therapy or a Doctorate in Physical Therapy

### Major Requirements: (30 Semester Hours)

### Health Science Core Requirements: (12 Credit Hours)

- HLSC 301 - The American Health Care System **Credit Hours: 3**
- HLSC 304 - Statistics for the Health Sciences **Credit Hours: 3**
- HLSC 307 - Health Communication and Promotion **Credit Hours: 3**

- HLSC 495 - Seminar in Health Science **Credit Hours: 3**

## Foundational Core Requirements: (9 Credit Hours)

- HLSC 305 - Health Informatics **Credit Hours: 3**
- BIOL 346 - Pathophysiology **Credit Hours: 3**
- BIOL 376 - Pathophysiology II **Credit Hours: 3**

## Health Science Electives: (9 Credit Hours)

Choose Four of the Following:

- BIOL 305 - Human Genetics **Credit Hours: 3**
- EXSC 333 - Motor Learning and Performance **Credit Hours: 3**
- EXSC 336 - Principles of Strength and Conditioning **Credit Hours: 3**
- HLSC 330 - The Human Body: Structure and Function **Credit Hours: 3**
- HLSC 331 - Nutrition and Health **Credit Hours: 3**
- PSYC 363 - Abnormal Psychology **Credit Hours: 3**
- HLSC 406 - Legal Issues in Healthcare **Credit Hours: 3**

## Customize Your Curriculum Plan

MAP majors are designed to accommodate the demands of your career and personal life. Most courses are offered multiple times per year within four 10-week terms. This allows you to:

- **Adjust your course load:** take only 1 or up to 4 courses each term
- **Choose the pace at which you will complete your program:** take courses in just one term each year, or in all 4
- **Customized dual majors and or/minors:** Your Health-Related Program Advisor will help you create a curriculum plan to meet your career goals

For additional information, contact Jennifer Baird, Allied Health Programs Advisor, at [jbaird@muskingum.edu](mailto:jbaird@muskingum.edu) or 740-826-6151

For a complete listing of MAP requirements, policies and procedures please refer to the Muskingum Adult Program Guidebook(pdf).

## Healthcare Management Major (MAP)

**The Healthcare Management major is designed for students with an allied health background who hold an associate of science or Associate of Business (AB) degree who wish to obtain a Bachelor of Science (BS) degree to**

# **expand their employment options and work in healthcare management.**

This major includes content that will equip you to understand and manage services and reimbursement sources affected by CMS, the Affordable Care Act, informatics and emerging areas of practice in healthcare. Professionals from many clinical backgrounds often select this major including radiology, medical lab, occupational therapy, physical therapy, health information management, respiratory, sonography, paramedic, and business. (See Career Pathway visuals below)

Graduates from this major often continue on and do graduate work in the Muskingum Master of Information, Strategy, Systems and Technology Degree (MISST) Program.

## **Major Requirements: (30 Semester Hours)**

### **Healthcare Management Core Requirements: (12 Credit Hours)**

- HLSC 301 - The American Health Care System **Credit Hours: 3**
- HLSC 307 - Health Communication and Promotion **Credit Hours: 3**
- HLSC 495 - Seminar in Health Science **Credit Hours: 3**
- HLSC 305 - Health Informatics **Credit Hours: 3**

### **Foundational Core Requirements: (9 Credit Hours)**

- HLSC 406 - Legal Issues in Healthcare **Credit Hours: 3**
- HLSC 326 - Health Care Finance **Credit Hours: 3**
- HLSC 322 - Health Policy **Credit Hours: 3**

### **Healthcare Management Electives: (9 Credit Hours)**

#### **Choose Three of the Following:**

- BUSI 321 - Management Techniques **Credit Hours: 3**
- BUSI 360 - Business Law **Credit Hours: 3**
- BUSI 415 - Human Resource Management **Credit Hours: 3**
- BUSI 420 - Management Information Systems **Credit Hours: 3**
- SPST 441 - Sports Management **Credit Hours: 3**

## **Customize Your Curriculum Plan**

MAP majors are designed to accommodate the demands of your career and personal life. Most courses are offered multiple times per year within four 10-week terms. This allows you to:

Adjust your course load: take only 1 or up to 4 courses each term

Choose the pace at which you will complete your program: take courses in just one term each year, or in all 4

Customized dual majors and or/minors: Jennifer Baird, your Allied Health Programs Advisor, will help you create a curriculum plan to meet your career goals

For additional information, contact Jennifer Baird, Allied Health Programs Advisor, at [jbaird@muskingum.edu](mailto:jbaird@muskingum.edu) or 740-826-6151

For a complete listing of MAP requirements, policies and procedures please refer to the Muskingum Adult Program Guidebook(pdf).

## History Major

### History Major Requirements: (33 Hours)

- HIST 300 - Historical Research Methods **Credit Hours: 3**
- HIST 420 - Readings in History **Credit Hours: 3**
- HIST 460 - History Research Seminar **Credit Hours: 3**

### 9 Hours From

- HIST 105 - United States History to 1877 **Credit Hours: 3**
- HIST 106 - United States History since 1877 **Credit Hours: 3**
- HIST 110 - Pre-Modern World History **Credit Hours: 3**
- HIST 111 - The Emergence of the Modern World I **Credit Hours: 3**
- HIST 112 - The Emergence of the Modern World II **Credit Hours: 3**

### Electives: One Course From Each Grouping

#### European

- HIST 310 - Ancient History **Credit Hours: 3**
- HIST 318 - Nineteenth Century Europe **Credit Hours: 3**
- HIST 320 - Twentieth Century Europe **Credit Hours: 3**
- HIST 322 - Gender and History **Credit Hours: 3**
- HIST 345 - The Second World War **Credit Hours: 3**

#### World

- HIST 344 - East Asian History to 1800 **Credit Hours: 3**
- HIST 346 - Southeast Asian History **Credit Hours: 3**
- HIST 347 - Modern China **Credit Hours: 3**
- HIST 348 - The Western Impact on Modern Japan **Credit Hours: 3**
- HIST 350 - Colonial Latin America **Credit Hours: 3**
- HIST 351 - Modern Latin America **Credit Hours: 3**
- HIST 352 - Latin America Film and History **Credit Hours: 4**
- HIST 353 - History of Mexico, Pre-Columbian to Present **Credit Hours: 3**
- HIST 356 - History of Modern Africa **Credit Hours: 3**

## American

- HIST 372 - Empires of North America **Credit Hours: 3**
- HIST 374 - Ohio History **Credit Hours: 3**
- HIST 375 - Nearby History **Credit Hours: 4**
- HIST 376 - The American Revolution **Credit Hours: 3**
- HIST 378 - Gender and Sexuality in American History **Credit Hours: 3**
- HIST 379 - Youth in Modern America **Credit Hours: 3**
- HIST 380 - The History of the American Dream **Credit Hours: 3**
- HIST 381 - 1950s America **Credit Hours: 3**
- HIST 382 - 1960s and American Film **Credit Hours: 4**
- HIST 385 - American Environmental History **Credit Hours: 3**

Remainder of Required Hours From Departmental Offerings

## History, Minor

Minor Requirements: (15 Hours)

- at least one three-credit HIST course at the 300- or 400-level.

## Human Biology, Minor

Minor Requirements: (19 Hours)

- BIOL 121 - Anatomy & Physiology I **Credit Hours: 4**
- BIOL 122 - Anatomy & Physiology II **Credit Hours: 4**  
or
- HLSC 330 - The Human Body: Structure and Function **Credit Hours: 3 \***
- BIOL 305 - Human Genetics **Credit Hours: 3 \***  
or
- BIOL 306 - Genetics **Credit Hours: 4**
- BIOL 346 - Pathophysiology **Credit Hours: 3**

Electives:

- BIOL 213 - Functional Histology **Credit Hours: 4**
- BIOL 312 - Microbiology **Credit Hours: 4**
- BIOL 368 - Fundamental Neuroscience **Credit Hours: 4**
- BIOL 385 - Topics in Biology **Credit Hours: 1-4** (Topics: Advanced Pathophysiology) \*
- EXSC 338 - Kinesiology **Credit Hours: 3**
- HLSC 331 - Nutrition and Health **Credit Hours: 3 \***
- HLSC 341 - Applied Clinical Biochemistry I **Credit Hours: 3 \***
- HLSC 342 - Applied Clinical Biochemistry II **Credit Hours: 3 \***
- MBIO 211 - Topics in Molecular Biology **Credit Hours: 1**

- NRSC 201 - Topics in Neuroscience **Credit Hours: 1**
- NRSC 386 - Neuropharmacology **Credit Hours: 4**
- NUTR 231 - Nutrition Across the Lifespan **Credit Hours: 3**

## Notes

\*Offered only in MAP

## **Human Resource Management Major (MAP)**

Major Requirements: (48 Semester Hours)

Human Resource Management Core Requirements: (30 Credit Hours)

- ACCT 201 - Financial Accounting **Credit Hours: 3**
- ACCT 202 - Managerial Accounting **Credit Hours: 3**
- BUSI 321 - Management Techniques **Credit Hours: 3**
- BUSI 325 - Statistics **Credit Hours: 3**
- BUSI 360 - Business Law **Credit Hours: 3**
- BUSI 414 - Business Ethics **Credit Hours: 3**
- BUSI 420 - Management Information Systems **Credit Hours: 3**
- ECON 215 - Principles of Microeconomics **Credit Hours: 3**
- ECON 216 - Principles of Macroeconomics **Credit Hours: 3**

Choose One of the Following:

- COMM 355 - Organizational Communication **Credit Hours: 3**
- ENGL 202 - Business Writing **Credit Hours: 3**

Human Resource Management Requirements: (15 Credit Hours)

For a complete listing of MAP requirements, policies and procedures please refer to the Muskingum Adult Program Guidebook(pdf).

- BUSI 415 - Human Resource Management **Credit Hours: 3**
- BUSI 430 - Employment Law for Business **Credit Hours: 3**
- BUSI 431 - Topics in Human Resource Management **Credit Hours: 3**
- BUSI 450 - Strategic Management **Credit Hours: 3**
- BUSI 496 - Bachelor of Science Seminar in Business **Credit Hours: 3**

## **Humanities Major**

Major Requirements:

Remaining courses from four of the six humanities division departments-art (ART), English (ENGL), world languages (GERM, FREN, SPAN), music (MUSC), religion and philosophy (RELG, PHIL), communication, media & theatre (COMM, DMD, JOURN, MEDIA, PBRL)

- 40 hours (exclusive of Gen Ed core and elected distribution courses)
- IDIS 275 - Arts and Humanities in Western Culture **Credit Hours: 3**
- IDIS 492 - Humanities Senior Seminar **Credit Hours: 3**

### Restriction:

- Maximum of 29 hours in any one discipline.

## Information Systems Major (MAP)

**Technology is an integral and continual interactive part of our lives. Nearly all organizations rely on technology and information systems to conduct business and operate efficiently.**

According to the US Bureau of Labor Statistics the need for IS employees will grow by 20% in all employment areas from 2008 to 2018.

Our new major, Information Systems, combines business, computer science and informatics to prepare you for a successful career in the 21st century.

### Major Requirements: (43 Credit Hours)

For a complete listing of MAP requirements, policies and procedures please refer to the Muskingum Adult Program Guidebook(pdf).

### Business Requirements: (15 Credit Hours)

- ACCT 201 - Financial Accounting **Credit Hours: 3**
- BUSI 318 - Managerial Finance **Credit Hours: 3**
- BUSI 325 - Statistics **Credit Hours: 3**
- ECON 215 - Principles of Microeconomics **Credit Hours: 3**
- ECON 216 - Principles of Macroeconomics **Credit Hours: 3**

### Computer Science Requirements: (9 Credit Hours)

- CPSC 100 - Introduction to Computer Science **Credit Hours: 3**
- CPSC 111 - Computer Science I **Credit Hours: 3**
- CPSC 365 - Web Applications and Database Management Systems **Credit Hours: 3**



## Informatics Requirements: (19 Credit Hours)

- INFR 310 - Foundations of Information Systems **Credit Hours: 3**
- INFR 320 - IT Infrastructure **Credit Hours: 3**
- INFR 330 - Systems Analysis & Design **Credit Hours: 3**
- INFR 340 - Information Systems Project Management **Credit Hours: 3**
- INFR 410 - Enterprise Architecture **Credit Hours: 3**
- INFR 495 - IS Strategy, Management and Acquisition **Credit Hours: 4**

## International Affairs Major

(Not Accepting New Majors)

### Major Requirements: (42 Hours)

#### International Affairs Core Requirements: (15 Hours)

Senior Seminar (3 hours) selected in consultation with the International Affairs advisor and in a department involved in the International Affairs major.

Majors are advised that seminars in some departments may require successful completion of an additional class or classes, such as a research methods class.

#### 12 hours from the following:

- ECON 215 - Principles of Microeconomics **Credit Hours: 3**
- ECON 216 - Principles of Macroeconomics **Credit Hours: 3**
- HIST 112 - The Emergence of the Modern World II **Credit Hours: 3**
- POLS 131 - Introduction to Comparative Politics **Credit Hours: 3**
- POLS 151 - Introduction to International Relations **Credit Hours: 3**
- RELG 153 - World Religions **Credit Hours: 3**
- SOCI 101 - The Sociological Perspective **Credit Hours: 3**

#### Distribution requirements:

At least 27 hours including courses in three disciplines from the first three groups

#### Social and Economic Development: (3 Hours)

- ECON 361 - International Trade **Credit Hours: 3**
- ECON 362 - International Finance **Credit Hours: 3**
- GEOG 111 - World Regional Geography **Credit Hours: 3**
- RELG 393 - Global Issues and Values **Credit Hours: 3**
- SOCI 320 - Racial and Cultural Minorities **Credit Hours: 3**
- SOCI 350 - Social Change in an International Perspective **Credit Hours: 3**

## International Relations: (6 Hours)

- HIST 320 - Twentieth Century Europe **Credit Hours: 3**
- HIST 348 - The Western Impact on Modern Japan **Credit Hours: 3**
- POLS 352 - American Foreign Policy **Credit Hours: 3**
- POLS 354 - Model United Nations **Credit Hours: 3**
- POLS 356 - War, Peace, and Security **Credit Hours: 3**
- POLS 358 - Russian Foreign Policy **Credit Hours: 3**

## Comparative Culture and Politics: (9 Hours)

- ENGL 124 - World Literature **Credit Hours: 3**
- FREN 123 - Explorations of Francophone Literature in English Translation **Credit Hours: 3**
- FREN 304 - Survey of French and Francophone Literatures **Credit Hours: 3**
- FREN 325 - Topics in French Civilization **Credit Hours: 3**
- GERM 123 - Explorations in German Literature in English Translation **Credit Hours: 3**
- GERM 325 - Topics in Germanic Civilization **Credit Hours: 3**
- HIST 346 - Southeast Asian History **Credit Hours: 3**
- HIST 347 - Modern China **Credit Hours: 3**
- HIST 351 - Modern Latin America **Credit Hours: 3**
- HIST 356 - History of Modern Africa **Credit Hours: 3**
- MUSC 310 - Excursions in World Music **Credit Hours: 3**
- POLS 331 - Politics of Western Europe **Credit Hours: 3**
- POLS 336 - Russian Politics and Society **Credit Hours: 3**
- RELG 251 - The World of Islam **Credit Hours: 3**
- RELG 342 - Religions and Philosophies of Asia **Credit Hours: 3**
- RELG 395 - World Mythology **Credit Hours: 3**
- SPAN 123 - Hispanic Literature and Film **Credit Hours: 3**
- SPAN 325 - Hispanic Civilization **Credit Hours: 3**

## Language Skills - either (a) or (b)

- a. Participation in an approved study abroad program that includes 3 hours of course work in a foreign language.
- b. Completion of a foreign language course at the 212-level or above, excluding courses not taught in the language of study.
- c. Native Speakers of foreign languages taking courses at Muskingum University are exempt from the language requirement.

Two additional 300- or 400-level courses from the listed courses, excluding those already used to fulfill requirements.

## International Business Major

(Not Accepting New Majors)

## Major Requirements: (42-60 Hours)

## International Business Core Requirements:

(33-53 hours, including at least 3 completed in an advisor-approved study abroad program)

- ACCT 201 - Financial Accounting **Credit Hours: 3**
- ECON 215 - Principles of Microeconomics **Credit Hours: 3**
- ECON 216 - Principles of Macroeconomics **Credit Hours: 3**
- ECON 361 - International Trade **Credit Hours: 3**
- BUSI 221 - Organizational Management **Credit Hours: 3**
- BUSI 241 - Marketing **Credit Hours: 3**
  
- BUSI 318 - Managerial Finance **Credit Hours: 3** And
- BUSI 412 - International Business **Credit Hours: 3**
  
- HIST 320 - Twentieth Century Europe **Credit Hours: 3**
- HIST 347 - Modern China **Credit Hours: 3**
- HIST 348 - The Western Impact on Modern Japan **Credit Hours: 3**  
or
- HIST 351 - Modern Latin America **Credit Hours: 3**
- POLS 131 - Introduction to Comparative Politics **Credit Hours: 3**  
or
- POLS 151 - Introduction to International Relations **Credit Hours: 3**
- IDIS 491 - Seminar in International Business **Credit Hours: 3**

## International Business Capstone Course

(senior seminar) to be taken after completion of

- FREN 240 - Business French **Credit Hours: 3**
  
- SPAN 240 - Business Spanish **Credit Hours: 3**  
or
- GERM 340 - Business German **Credit Hours: 3**
  
- ECON 215 - Principles of Microeconomics **Credit Hours: 3** And
- ECON 216 - Principles of Macroeconomics **Credit Hours: 3**
  
- BUSI 221 - Organizational Management **Credit Hours: 3**
- BUSI 241 - Marketing **Credit Hours: 3**
  
- BUSI 318 - Managerial Finance **Credit Hours: 3** And
- BUSI 412 - International Business **Credit Hours: 3**

Students are strongly encouraged to work with advisors to develop seminar topics/approaches that synthesize language and business skills.

## Language Proficiency: (3-19 Hours)

- a. For students whose native language is English: FREN 240, SPAN 240, or GERM 340: Business French/German/Spanish
- b. For students whose native language is not English: ENGL 202

## Electives:

(6-7 hours from the following, excluding courses used to fill requirements listed above)

- ACCT 202 - Managerial Accounting **Credit Hours: 3**
- BUSI 326 - Financial Analysis and Investment **Credit Hours: 3**  
or
- BUSI 411 - Topics in Business **Credit Hours: 3**
- ECON 362 - International Finance **Credit Hours: 3**
- ENGL 202 - Business Writing **Credit Hours: 3**
- GEOG 111 - World Regional Geography **Credit Hours: 3**
- HIST 320 - Twentieth Century Europe **Credit Hours: 3**
- HIST 346 - Southeast Asian History **Credit Hours: 3**
- HIST 347 - Modern China **Credit Hours: 3**
- HIST 348 - The Western Impact on Modern Japan **Credit Hours: 3**
- HIST 353 - History of Mexico, Pre-Columbian to Present **Credit Hours: 3**
- HIST 390 - Topics in History **Credit Hours: 3**
- An additional course in FREN, GERM, or SPAN excluding 123;
- IDIS 300 - Internship **Credit Hours: 1-6** (approved by international business faculty advisor).
- RELG 393 - Global Issues and Values **Credit Hours: 3**
- SOCI 350 - Social Change in an International Perspective **Credit Hours: 3**

## One from:

- POLS 131 - Introduction to Comparative Politics **Credit Hours: 3**
- POLS 151 - Introduction to International Relations **Credit Hours: 3**
- POLS 331 - Politics of Western Europe **Credit Hours: 3**

## Journalism Major

### Major Requirements: (48 Hours)

### Journalism Core Requirements: (39 Hours)

- COMM 325 - Communication Theory **Credit Hours: 3**
- JOURN 207 - Print Writing and Reporting **Credit Hours: 3**
- JOURN 208 - Editing and News Design **Credit Hours: 3**
- JOURN 219 - Photojournalism **Credit Hours: 3**
- JOURN 399 - Internship **Credit Hours: 3**
- JOURN 495 - Seminar **Credit Hours: 3**
- MEDIA 150 - Introduction to Convergent Media **Credit Hours: 3**
- MEDIA 210 - Media Literacy **Credit Hours: 3**

- MEDIA 240 - Broadcast Writing and Reporting **Credit Hours: 3**
- MEDIA 308 - Single Camera Video Production and Editing **Credit Hours: 3**
- MEDIA 365 - Audio Production **Credit Hours: 3**
- MEDIA 420 - Media Law **Credit Hours: 3**

## Electives (3 Hours):

One course selected from

- ENGL 316 - Public Relations Writing **Credit Hours: 3**
- ENGL 319 - Topics in Creative Nonfiction Writing **Credit Hours: 3**
- MEDIA 415 - Advanced Media Production **Credit Hours: 3**

## Practica Requirements (6 Hours)

- COMM 401 - Communication Practicum **Credit Hours: 1**
- COMM 301 - Communication Practicum **Credit Hours: 1**
- COMM 101 - Communication Practicum **Credit Hours: 1**
- COMM 201 - Communication Practicum **Credit Hours: 1**
- JOURN 101 - Journalism Practica **Credit Hours: 1**
- JOURN 201 - Journalism Practica **Credit Hours: 1**
- JOURN 301 - Journalism Practica **Credit Hours: 1**
- JOURN 401 - Journalism Practica **Credit Hours: 1**

## Marketing Major

### Major Requirements: (42 Hours)

- BUSI 221 - Organizational Management **Credit Hours: 3**
- BUSI 241 - Marketing **Credit Hours: 3**
- BUSI 318 - Managerial Finance **Credit Hours: 3**
- BUSI 495 - Seminar **Credit Hours: 3** (replace with an upper level elective if used for Business Management Major)
- ACCT 201 - Financial Accounting **Credit Hours: 3**
- ACCT 202 - Managerial Accounting **Credit Hours: 3**
- BUSI 325 - Statistics **Credit Hours: 3**  
or
- ECON 333 - Intermediate Microeconomic Theory **Credit Hours: 3**
- ECON 215 - Principles of Microeconomics **Credit Hours: 3**
- ECON 216 - Principles of Macroeconomics **Credit Hours: 3**
- ECON 311 - Money and Banking **Credit Hours: 3**

### Electives:

4 courses from

- BUSI 325 - Statistics **Credit Hours: 3** (if student also completes ECON 333 and does not count BUSI 325 as a Business Management elective), BUSI 411 , BUSI 416 , BUSI 417 , BUSI 419 , BUSI 422 , BUSI 423 , BUSI 424 (cannot count toward both business management and marketing major)
- COMM 335 - Small Group Communication **Credit Hours: 3**
- ENGL 316 - Public Relations Writing **Credit Hours: 3**
- HLSC 307 - Health Communication and Promotion **Credit Hours: 3**
- MEDIA 300 - Visual Communication **Credit Hours: 3**

## Notes

\*Adult undergraduate degree completers should refer to the MAP Guidebook

## Marketing Major (MAP)

### Major Requirements:

### Marketing Core Requirements: (30 Credit Hours)

- ACCT 201 - Financial Accounting **Credit Hours: 3**
- ACCT 202 - Managerial Accounting **Credit Hours: 3**
- BUSI 321 - Management Techniques **Credit Hours: 3**
- BUSI 325 - Statistics **Credit Hours: 3**
- BUSI 360 - Business Law **Credit Hours: 3**
- BUSI 414 - Business Ethics **Credit Hours: 3**
- BUSI 420 - Management Information Systems **Credit Hours: 3**
- ECON 215 - Principles of Microeconomics **Credit Hours: 3**
- ECON 216 - Principles of Macroeconomics **Credit Hours: 3**

### Choose One of the Following:

- COMM 355 - Organizational Communication **Credit Hours: 3**
- ENGL 202 - Business Writing **Credit Hours: 3**

### Marketing Requirements: (15 Credit Hours)

For a complete listing of MAP requirements, policies and procedures please refer to the Muskingum Adult Program Guidebook(pdf).

- BUSI 341 - Marketing Techniques **Credit Hours: 3**
- BUSI 416 - Professional Selling **Credit Hours: 3**
- BUSI 419 - Consumer Behavior **Credit Hours: 3**
- BUSI 440 - Marketing Analytics & Strategy **Credit Hours: 3**
- BUSI 496 - Bachelor of Science Seminar in Business **Credit Hours: 3**

## Marketing, Minor

### Minor Requirements: (15 Hours)

- ACCT 201 - Financial Accounting **Credit Hours: 3**
- BUSI 241 - Marketing **Credit Hours: 3**
- ECON 215 - Principles of Microeconomics **Credit Hours: 3**

### Electives:

two classes from

- BUSI 318 - Managerial Finance **Credit Hours: 3** (if not used to satisfy the Business Management major)
  - BUSI 325 - Statistics **Credit Hours: 3** (if not used to satisfy the Management major or minor)
  - BUSI 411 - Topics in Business **Credit Hours: 3**
  - BUSI 416 - Professional Selling **Credit Hours: 3**
  - BUSI 417 - Advertising **Credit Hours: 3**
  - BUSI 419 - Consumer Behavior **Credit Hours: 3**
  - BUSI 422 - Marketing Research **Credit Hours: 3**
  - BUSI 423 - International Marketing **Credit Hours: 3**
  - BUSI 424 - Entrepreneurship **Credit Hours: 3** (cannot count toward both business and marketing minor)
  - COMM 335 - Small Group Communication **Credit Hours: 3**
  - ENGL 316 - Public Relations Writing **Credit Hours: 3**
  - HLSC 307 - Health Communication and Promotion **Credit Hours: 3**
  
  - MEDIA 300 - Visual Communication **Credit Hours: 3**
- or

## Mathematics Major

### Mathematics Major Requirements: (36 Hours)

- MATH 190 - Calculus I **Credit Hours: 4**
- MATH 200 - Calculus II **Credit Hours: 4**
- MATH 230 - Linear Algebra and Vectors **Credit Hours: 3**
- MATH 240 - Discrete Mathematics I **Credit Hours: 3**
- MATH 250 - Discrete Mathematics II **Credit Hours: 3**
- MATH 310 - Calculus III **Credit Hours: 3**
- MATH 330 - Algebraic Structures **Credit Hours: 4**
- MATH 410 - Analysis **Credit Hours: 4**
- MATH 495 - Mathematics Seminar **Credit Hours: 1**
- CPSC 100 - Introduction to Computer Science **Credit Hours: 3**
- 6 additional hours at the 300-level or above.

## Mathematics, Minor

## Minor Requirements: (15 Hours)

- MATH 190 - Calculus I **Credit Hours: 4**
- MATH 230 - Linear Algebra and Vectors **Credit Hours: 3**
- three hours at 300- or 400-level

## Electives:

remainder of hours from other offerings (excluding MATH 100), including at most one course at the 100-level (other than MATH 190)

## Media Production Major

### Major Requirements: (42 Hours)

#### Media Production Core Requirements:

- MEDIA 150 - Introduction to Convergent Media **Credit Hours: 3**
- MEDIA 210 - Media Literacy **Credit Hours: 3**
- MEDIA 240 - Broadcast Writing and Reporting **Credit Hours: 3**
- MEDIA 308 - Single Camera Video Production and Editing **Credit Hours: 3**
- MEDIA 365 - Audio Production **Credit Hours: 3**
- MEDIA 399 - Internship **Credit Hours: 3**
- MEDIA 415 - Advanced Media Production **Credit Hours: 3**
- MEDIA 495 - Seminar **Credit Hours: 3**
- COMM 325 - Communication Theory **Credit Hours: 3**
- COMM 360 - Research Methods **Credit Hours: 3**
- COMM 101 - Communication Practicum **Credit Hours: 1** (6 times)
- COMM 201 - Communication Practicum **Credit Hours: 1** (6 times)
- COMM 301 - Communication Practicum **Credit Hours: 1** (6 times)
- COMM 401 - Communication Practicum **Credit Hours: 1** (6 times)
- ENGL 207 - Print Writing and Reporting **Credit Hours: 3**
- JOURN 219 - Photojournalism **Credit Hours: 3**
- or
- MEDIA 300 - Visual Communication **Credit Hours: 3**

## Medical Laboratory Studies Major (MAP)

**The Medical Laboratory Studies major is designed for already certified medical laboratory technicians with an Associate of Science (AS) degree in medical laboratory technology who wish to obtain a Bachelor of Science**



## **(BS) degree, in order to eventually qualify to sit for the MLS exam with the American Society of Clinical Pathologist (ASCP) using the route 2 pathway.**

This major incorporate a strong concentration of biology (6 credits) and chemistry (9 credits) courses. Often referred to as the Medical Laboratory Technician (MLT) to Medical Laboratory Scientist (MLS) Career Pathway. (See Career Pathway visual below) This is also a strong course of study for MLT's who plan to attend a science-based graduate programs in the areas of Medical Laboratory Sciences, Physician Assistant, or Pathologist Assistant.

### **Major Requirements: (30 Semester Hours)**

#### **Medical Laboratory Studies Core Requirements: (12 Credit Hours)**

- HLSC 301 - The American Health Care System **Credit Hours: 3**
- HLSC 495 - Seminar in Health Science **Credit Hours: 3**
- HLSC 307 - Health Communication and Promotion **Credit Hours: 3**

Choose one of the following:

- HLSC 304 - Statistics for the Health Sciences **Credit Hours: 3**
- HLSC 305 - Health Informatics **Credit Hours: 3**

#### **Foundational Core Requirements: (9 Credit Hours)**

- BIOL 346 - Pathophysiology **Credit Hours: 3**
- HLSC 340 - Instrumental Clinical Chemistry **Credit Hours: 3**
- HLSC 341 - Applied Clinical Biochemistry I **Credit Hours: 3**

#### **Medical Laboratory Studies Electives: (9 Credit Hours)**

Choose Three of the Following:

- BIOL 305 - Human Genetics **Credit Hours: 3**
- BIOL 376 - Pathophysiology II **Credit Hours: 3**
- HLSC 342 - Applied Clinical Biochemistry II **Credit Hours: 3**
- HLSC 331 - Nutrition and Health **Credit Hours: 3**
- HLSC 315 - Public Health and Epidemiology **Credit Hours: 3**
- HLSC 406 - Legal Issues in Healthcare **Credit Hours: 3**

### **Customize Your Curriculum Plan**

MAP majors are designed to accommodate the demands of your career and personal life. Most courses are offered multiple times per year within four 10-week terms. This allows you to:

- Adjust your course load: take only 1 or up to 4 courses each term
- Choose the pace at which you will complete your program: take courses in just one term each year, or in all 4
- Customized dual majors and or/minors: Your Health-Related Program Advisor will help you create a curriculum plan to meet your career goals

For additional information, contact Jennifer Baird, Allied Health Programs Advisor, at [jbaird@muskingum.edu](mailto:jbaird@muskingum.edu) or 740-826-6151

For a complete listing of MAP requirements, policies and procedures please refer to the Muskingum Adult Program Guidebook(pdf).

## Middle Childhood Education Major

Middle Childhood Education major prepares individuals to teach children grades four through nine in two of the following content areas: math, science, language arts and reading, and social studies. Students may select any combination of two of the four content areas.

### Major Requirements:

#### Course Requirements Include:

- EDUC 110 - Introduction to Education **Credit Hours: 1**
- EDUC 112 - Educational Implications of Diversity **Credit Hours: 3**
- EDUC 215 - Educational Psychology **Credit Hours: 3**
- EDUC 312 - Developmentally Responsive Middle Schools **Credit Hours: 3**
- EDUC 330 - Serving Individuals with Exceptionalities **Credit Hours: 3**
- EDUC 335 - Educational Technology **Credit Hours: 3**
- EDUC 341 - Assessment in Education **Credit Hours: 3**
- EDUC 370 - Phonics and the Process of Reading **Credit Hours: 3**
- EDUC 372 - Reading Methods for Middle Childhood **Credit Hours: 3**
- EDUC 413 - Reading in the Content Areas **Credit Hours: 3**
- EDUC 414 - Reading Assessment and Intervention **Credit Hours: 3**
- EDUC 419 - Co-teaching and Collaboration in Education **Credit Hours: 2**
- EDUC 420 - Proactive Approaches to Classroom Management and Support **Credit Hours: 2**
- EDUC 450 - Middle Level Student Teaching **Credit Hours: 9**
- EDUC 461 - Student Teaching Seminar **Credit Hours: 1**
- EDUC 465 - Professional Practices in Middle Level Education **Credit Hours: 2**

#### Two of the following:

- EDUC 382 - Social Studies Methods for Middle Childhood Educators **Credit Hours: 3**
- EDUC 383 - Language Arts Methods for Middle Childhood Educators **Credit Hours: 3**
- EDUC 384 - Science Methods for Middle Childhood Educators **Credit Hours: 3**
- EDUC 385 - Math Methods for Middle Childhood Educators **Credit Hours: 3**

#### Two of the following approved concentration areas:

reading/language arts, mathematics, social studies, science. (Specific concentration course requirements are available in the education department office and contained in the Teacher Education Handbook.)

## **Molecular Biology Major**

### **Major Requirements: (70 hours)**

- MBIO 211 - Topics in Molecular Biology **Credit Hours: 1**
  - MBIO 411 - Topics in Molecular Biology **Credit Hours: 1**
  - MBIO 417 - Molecular Biology Seminar **Credit Hours: 2**
  - MBIO 418 - Research in Molecular Biology/Internship **Credit Hours: 4**
  - BIOL 108 - Biology Laboratory II **Credit Hours: 1**
  - BIOL 112 - Organismal Biology II **Credit Hours: 3**
  - BIOL 226 - Introduction to Cell and Molecular Biology **Credit Hours: 3**
  - BIOL 306 - Genetics **Credit Hours: 4**
  - BIOL 312 - Microbiology **Credit Hours: 4**
  - BIOL 375 - Molecular Biology **Credit Hours: 4**
  - CHEM 111 - General Chemistry I **Credit Hours: 4**
  - CHEM 112 - General Chemistry II **Credit Hours: 4**
  - CHEM 213 - Organic Chemistry I **Credit Hours: 4**
  - CHEM 214 - Organic Chemistry II **Credit Hours: 4**
  - CHEM 315 - Physical Chemistry I **Credit Hours: 4**
  - CHEM 418 - Biochemistry I **Credit Hours: 4**
  - CPSC 100 - Introduction to Computer Science **Credit Hours: 3**
  - MATH 190 - Calculus I **Credit Hours: 4**
  - MATH 200 - Calculus II **Credit Hours: 4**
  - PHEN 121 - Classical Physics I **Credit Hours: 4**
  - PHEN 122 - Classical Physics II **Credit Hours: 4**
- Strongly Recommended: BIOL 336, statistics and computer science courses

## **Multi-Age: Art Education**

### **Art Major Requirements: (38 Hours)**

- One art course elective
- Portfolio for acceptance into major program
- One to three pieces may be retained as part of the student section of the Permanent Art Collection

### **Foundation year:**

- ART 112 - Drawing I **Credit Hours: 3**
- ART 120 - Three-Dimensional Design **Credit Hours: 3**
- ART 151 - Introduction to Art **Credit Hours: 3**
- ART 170 - Graphic Design I **Credit Hours: 3**

## Additional Requirements:

- ART 121 - Ceramics I **Credit Hours: 3**
- ART 131 - Sculpture I **Credit Hours: 3**
- ART 212 - Drawing II **Credit Hours: 3**
- ART 241 - Painting I **Credit Hours: 3**
- ART 490 - Senior Seminar and Capstone Assessment **Credit Hours: 2**

## Two Courses From

- ART 350 - Art History I **Credit Hours: 3**
- ART 351 - Art History II **Credit Hours: 3**
- ART 352 - Art History III **Credit Hours: 3**

## One Course From

- ART 321 - Ceramics III **Credit Hours: 3**
- ART 331 - Sculpture III **Credit Hours: 3**
- ART 370 - Graphic Design III **Credit Hours: 3**
  
- ART 412 - Life Drawing **Credit Hours: 3**  
or
- ART 441 - Painting III **Credit Hours: 3**

## Completion of Junior Year Review Prior to the Senior Capstone Review

## Capstone Experience Requirements:

1. Electronic Portfolio development
2. Art-related writings
3. Development of interdisciplinary art
4. Development of inter-cultural diversity art
5. Development of technology related to art

## Education Licensure

Prepares students to teach Visual Arts, grades 7-12. Contact the education department or the education department website for specific course requirements. You will have one advisor in Art and one in Education.

## **Multi-Age: German**

## German Major Requirements: (36 Hours)

(36 hours if started at GERM 111; 33 hours if started at GERM 112 or GERM 211)

Study Abroad, GERM 123, GERM 310, GERM 431, one course in another foreign language at the appropriate level. Enrollment in German Table (GERM 251/GERM 291) expected every semester, required when not enrolled in a German course; 2 hours applied to major or minor. No more than one upper-level German course taught in English is allowed to count toward major requirements.

## Education Licensure

Multi-age world language licensure in German pre-K through 12 is offered. Teacher licensure candidates must meet the requirements of Muskingum University and the Ohio Department of Education for teacher licensure. Contact the education department on campus for specific course requirements. Licensure candidates are required to maintain a minimum average GPA of 3.0 in their language course work, earn a minimum grade of B- in WRLD 397, and pass the content tests required by the State of Ohio for teacher licensure prior to student teaching. Completion of requirements may take 8 semesters in addition to student teaching.

## Multi-Age: Health Education

### Health Education Major Requirements: (32 Hours)

- BIOL 106 - Contemporary Biologic Issues **Credit Hours: 4** (Genetic Frontiers and Biotechnology, Human Biology, or Human Diseases)
- EXSC 131 - Human Structure and Function **Credit Hours: 4**
- EXSC 210 - First Aid and CPR **Credit Hours: 3**
- EXSC 249 - Exercise Physiology **Credit Hours: 3**
- HLSC 308 - Community Health **Credit Hours: 3**
- HLSC 345 - Personal Health **Credit Hours: 3**
- HLTH 400 - Health Curriculum, Methods, and Materials **Credit Hours: 3**
- NUTR 131 - Introduction to Nutrition **Credit Hours: 3**
- PE 470 - Administration, Organization, and Supervision of Health, Physical Education and Sports Programs **Credit Hours: 3**

## Multi-Age: Music Education

### Music Education Major Requirements: (76-77 Hours)

- MUSC 111 - Materials of Music I **Credit Hours: 4**
- MUSC 112 - Materials of Music II **Credit Hours: 4**
- MUSC 115 - Aural Skills I **Credit Hours: 1**
- MUSC 116 - Aural Skills II **Credit Hours: 1**
- MUSC 121 - Introduction to Music **Credit Hours: 3**
- MUSC 140 - Diction for Singing **Credit Hours: 1** (for students with a vocal concentration)
- MUSC 181 - Introduction to Music Education **Credit Hours: 2**
- MUSC 211 - Materials of Music III **Credit Hours: 4**
- MUSC 212 - Materials of Music IV **Credit Hours: 4**
- MUSC 215 - Aural Skills III **Credit Hours: 1**
- MUSC 216 - Aural Skills IV **Credit Hours: 1**
- MUSC 281 - Woodwind Methods and Pedagogy **Credit Hours: 2**

- MUSC 282 - String Methods and Pedagogy **Credit Hours: 2**
- MUSC 283 - Brass and Percussion Methods and Pedagogy **Credit Hours: 2**
- MUSC 284 - Voice Pedagogy and Practicum **Credit Hours: 2**
- MUSC 295 - Piano Proficiency **Credit Hours: 0**
- MUSC 310 - Excursions in World Music **Credit Hours: 3**
- MUSC 315 - Instrumentation **Credit Hours: 2**
- MUSC 321 - Western Music History I **Credit Hours: 3**
- MUSC 322 - Music History II **Credit Hours: 3**
- MUSC 371 - Conducting I **Credit Hours: 2**
- MUSC 372 - Conducting II **Credit Hours: 2**
- MUSC 382 - Music Education: Teaching General Music **Credit Hours: 2**
- MUSC 383 - Music Education: Teaching Vocal Music **Credit Hours: 2**
- MUSC 384 - Music Education: Teaching Instrumental Music **Credit Hours: 2**
- MUSC 401 - Senior Recital **Credit Hours: 0**
- MUSC 445 - Senior Seminar **Credit Hours: 1**
- MUSC 482 - Music Education: Professional Semester in Elementary Education **Credit Hours: 5**
- MUSC 483 - Music Education: Professional Semester in Secondary Education **Credit Hours: 5**
- EDUC 112 - Educational Implications of Diversity **Credit Hours: 3**
- EDUC 215 - Educational Psychology **Credit Hours: 3**
- EDUC 314 - Multi-Age Curriculum and Instruction **Credit Hours: 3**
- EDUC 330 - Serving Individuals with Exceptionalities **Credit Hours: 3**
- EDUC 335 - Educational Technology **Credit Hours: 3**
- EDUC 341 - Assessment in Education **Credit Hours: 3**
- EDUC 413 - Reading in the Content Areas **Credit Hours: 3**
- EDUC 419 - Co-teaching and Collaboration in Education **Credit Hours: 2**
- EDUC 420 - Proactive Approaches to Classroom Management and Support **Credit Hours: 2**
- EDUC 461 - Student Teaching Seminar **Credit Hours: 1**
- EDUC 466 - Professional Practices in Secondary Schools **Credit Hours: 2**

## 6 Semesters of the Appropriate Major Ensemble

6 semesters of the appropriate major ensemble and one semester in an ensemble of a medium dissimilar from the student's primary area of applied study

## 7 Hours of Applied Study in One Area

## 6 Semesters Of

- MUSC 100 - Performance Seminar **Credit Hours: 0**
- MUSC 300 - Performance Seminar **Credit Hours: 0**

## Junior Qualifying Exam

(assessed after 212)

## Multi-Age: Physical Education

## Physical Education Major Requirements (27 hours)

- EXSC 131 - Human Structure and Function **Credit Hours: 4**
- EXSC 249 - Exercise Physiology **Credit Hours: 3**
- EXSC 338 - Kinesiology **Credit Hours: 3**
- PE 341 - Principles of Physical Education, Evaluation and Measurements **Credit Hours: 3**
- PE 416 - Teaching Physical Education Activities **Credit Hours: 4**
- SPST 203 - Foundations of Athletic Skill **Credit Hours: 3**
- SPST 418 - Coaching Team Sports **Credit Hours: 3**

### Electives:

- Two hours of Physical Education (PE) above the 100-level

## Multi-Age: Spanish

### Spanish Major Requirements: (33 hours beyond 112)

Study Abroad, SPAN 310, SPAN 431, one course in another foreign language at the appropriate level. Enrollment in Spanish Table (SPAN 251/SPAN 291) expected every semester, required when not enrolled in a Spanish course; 2 hours applied to major or minor. No more than one upper-level Spanish courses taught in English is allowed to count toward major requirements.

## Music Education Major

### Music Education Major Requirements: (76-77 Hours)

- MUSC 111 - Materials of Music I **Credit Hours: 4**
- MUSC 112 - Materials of Music II **Credit Hours: 4**
- MUSC 115 - Aural Skills I **Credit Hours: 1**
- MUSC 116 - Aural Skills II **Credit Hours: 1**
- MUSC 121 - Introduction to Music **Credit Hours: 3**
- MUSC 140 - Diction for Singing **Credit Hours: 1** (for students with a vocal concentration)
- MUSC 181 - Introduction to Music Education **Credit Hours: 2**
- MUSC 211 - Materials of Music III **Credit Hours: 4**
- MUSC 212 - Materials of Music IV **Credit Hours: 4**
- MUSC 215 - Aural Skills III **Credit Hours: 1**
- MUSC 216 - Aural Skills IV **Credit Hours: 1**
- MUSC 281 - Woodwind Methods and Pedagogy **Credit Hours: 2**
- MUSC 282 - String Methods and Pedagogy **Credit Hours: 2**
- MUSC 283 - Brass and Percussion Methods and Pedagogy **Credit Hours: 2**
- MUSC 284 - Voice Pedagogy and Practicum **Credit Hours: 2**
- MUSC 295 - Piano Proficiency **Credit Hours: 0**
- MUSC 310 - Excursions in World Music **Credit Hours: 3**
- MUSC 315 - Instrumentation **Credit Hours: 2**

- MUSC 321 - Western Music History I **Credit Hours: 3**
- MUSC 322 - Music History II **Credit Hours: 3**
- MUSC 371 - Conducting I **Credit Hours: 2**
- MUSC 372 - Conducting II **Credit Hours: 2**
- MUSC 382 - Music Education: Teaching General Music **Credit Hours: 2**
- MUSC 383 - Music Education: Teaching Vocal Music **Credit Hours: 2**
- MUSC 384 - Music Education: Teaching Instrumental Music **Credit Hours: 2**
- MUSC 401 - Senior Recital **Credit Hours: 0**
- MUSC 445 - Senior Seminar **Credit Hours: 1**
- MUSC 482 - Music Education: Professional Semester in Elementary Education **Credit Hours: 5**
- MUSC 483 - Music Education: Professional Semester in Secondary Education **Credit Hours: 5**
- EDUC 112 - Educational Implications of Diversity **Credit Hours: 3**
- EDUC 215 - Educational Psychology **Credit Hours: 3**
- EDUC 314 - Multi-Age Curriculum and Instruction **Credit Hours: 3**
- EDUC 330 - Serving Individuals with Exceptionalities **Credit Hours: 3**
- EDUC 335 - Educational Technology **Credit Hours: 3**
- EDUC 341 - Assessment in Education **Credit Hours: 3**
- EDUC 413 - Reading in the Content Areas **Credit Hours: 3**
- EDUC 419 - Co-teaching and Collaboration in Education **Credit Hours: 2**
- EDUC 420 - Proactive Approaches to Classroom Management and Support **Credit Hours: 2**
- EDUC 461 - Student Teaching Seminar **Credit Hours: 1**
- EDUC 466 - Professional Practices in Secondary Schools **Credit Hours: 2**

## 6 Semesters of the Appropriate Major Ensemble

6 semesters of the appropriate major ensemble and one semester in an ensemble of a medium dissimilar from the student's primary area of applied study

## 7 Hours of Applied Study in One Area

## 6 Semesters Of

- MUSC 100 - Performance Seminar **Credit Hours: 0**
- MUSC 300 - Performance Seminar **Credit Hours: 0**

## Junior Qualifying Exam

(assessed after 212)

## Music Major

## Major Requirements: (48-49 Hours)

- MUSC 111 - Materials of Music I **Credit Hours: 4**
- MUSC 112 - Materials of Music II **Credit Hours: 4**



- MUSC 115 - Aural Skills I **Credit Hours: 1**
- MUSC 116 - Aural Skills II **Credit Hours: 1**
- MUSC 140 - Diction for Singing **Credit Hours: 1** (for students with a vocal concentration)
- MUSC 121 - Introduction to Music **Credit Hours: 3**
- MUSC 211 - Materials of Music III **Credit Hours: 4**
- MUSC 212 - Materials of Music IV **Credit Hours: 4**
- MUSC 215 - Aural Skills III **Credit Hours: 1**
- MUSC 216 - Aural Skills IV **Credit Hours: 1**
- MUSC 295 - Piano Proficiency **Credit Hours: 0**
- MUSC 310 - Excursions in World Music **Credit Hours: 3**
- MUSC 321 - Western Music History I **Credit Hours: 3**
- MUSC 322 - Music History II **Credit Hours: 3**
- MUSC 371 - Conducting I **Credit Hours: 2**
- MUSC 401 - Senior Recital **Credit Hours: 0**
- MUSC 445 - Senior Seminar **Credit Hours: 1**
  - 8 hours of applied study in one area
- 8 hours in the appropriate major ensemble

## 6 semesters of

- MUSC 100 - Performance Seminar **Credit Hours: 0**
- MUSC 300 - Performance Seminar **Credit Hours: 0**

## Junior qualifying exam

(assessed after 212)

## Music, Minor

### Minor Requirements: (18-19 Hours)

- MUSC 111 - Materials of Music I **Credit Hours: 4**
- MUSC 112 - Materials of Music II **Credit Hours: 4**
- MUSC 115 - Aural Skills I **Credit Hours: 1**
- MUSC 116 - Aural Skills II **Credit Hours: 1**
- MUSC 140 - Diction for Singing **Credit Hours: 1** (for students with a vocal concentration)
- 4 hours of applied study in one area
- 4 hours in the appropriate major ensemble

## 4 semesters of

(Those seeking the minor for early childhood licensure add MUSC 382)

- MUSC 100 - Performance Seminar **Credit Hours: 0**
- MUSC 300 - Performance Seminar **Credit Hours: 0**

## **Musical Theatre, Minor**

### **Minor Requirements: (23 Hours)**

- MUSC 111 - Materials of Music I **Credit Hours: 4**
- MUSC 115 - Aural Skills I **Credit Hours: 1**
- MUSC 140 - Diction for Singing **Credit Hours: 1**
- MUSC 141 - Voice **Credit Hours: .5-1** (both taken twice)  
or
- MUSC 341 - Voice **Credit Hours: .5-1** (both taken twice)
- MUSC 164 - Musical Theatre Workshop **Credit Hours: 1** (both taken twice)  
or
- MUSC 364 - Musical Theatre Workshop **Credit Hours: 1** (both taken twice)
- THEA 223 - Auditioning **Credit Hours: 1**
- THEA 275 - Acting I **Credit Hours: 3**
- THEA 285 - Dance for Musical Theatre **Credit Hours: 1-3**
- THEA 314 - Acting II **Credit Hours: 3**
- THEA 360 - American Musical Theatre: History and Structure **Credit Hours: 3**

## **Neuroscience Major**

### **Major Requirements: (57-59 Hours)**

- NRSC 201 - Topics in Neuroscience **Credit Hours: 1** (taken 3 times)
- NRSC 305 - Cognitive Neuroscience **Credit Hours: 3**
- NRSC 308 - Neuroscience Practicum **Credit Hours: 1**
- NRSC 407 - Neuroscience Research I **Credit Hours: 3**
- NRSC 408 - Neuroscience Research II **Credit Hours: 2**
- NRSC 409 - Neuroscience Research III **Credit Hours: 2**
- BIOL 108 - Biology Laboratory II **Credit Hours: 1**
- BIOL 112 - Organismal Biology II **Credit Hours: 3**
- BIOL 226 - Introduction to Cell and Molecular Biology **Credit Hours: 3**
- BIOL 368 - Fundamental Neuroscience **Credit Hours: 4**
- CHEM 111 - General Chemistry I **Credit Hours: 4**
- CHEM 112 - General Chemistry II **Credit Hours: 4**
- PSYC 101 - Introduction to Psychology **Credit Hours: 3**
- PSYC 151 - General Experimental Psychology **Credit Hours: 4**
- PSYC 232 - Behavioral Statistics **Credit Hours: 3**
- PSYC 281 - Physiological Psychology **Credit Hours: 3**

### **Three of the following courses:**

- NRSC 386 - Neuropharmacology **Credit Hours: 4**
- PSYC 361 - Sensation and Perception **Credit Hours: 4**
- BIOL 336 - Cellular Physiology **Credit Hours: 4**

- BIOL 375 - Molecular Biology **Credit Hours: 4**

### Suggested electives:

- BIOL 213 - Functional Histology **Credit Hours: 4**
- BIOL 306 - Genetics **Credit Hours: 4**
- CHEM 213 - Organic Chemistry I **Credit Hours: 4**
- CHEM 214 - Organic Chemistry II **Credit Hours: 4**
- CHEM 418 - Biochemistry I **Credit Hours: 4**
- CPSC 100 - Introduction to Computer Science **Credit Hours: 3**  
or
- CPSC 111 - Computer Science I **Credit Hours: 3**
- MATH 190 - Calculus I **Credit Hours: 4**
- PHEN 101 - Conceptual Physics **Credit Hours: 4**
- PSYC 304 - Learning and Memory **Credit Hours: 3**
- PSYC 351 - Advanced Experimental Psychology **Credit Hours: 4**

## Nursing Major

### Major Requirements: (108 Hours)

#### Required lower-level nursing courses: (19 Hours)

- NURS 125 - Foundations in Professional Practice I **Credit Hours: 1**
- NURS 126 - Foundations in Professional Practice II **Credit Hours: 1**
- NURS 226 - Health Assessment **Credit Hours: 3**
- NURS 227 - Fundamentals of Nursing Practice **Credit Hours: 4**
- NURS 230 - Pharmacology **Credit Hours: 3**
- NURS 251 - Introduction to Clinical Practice in Medical-Surgical Nursing **Credit Hours: 7**

#### Required Upper-level Nursing Courses: (46 Hours)

- NURS 340 - Nursing Research **Credit Hours: 3**
- NURS 351 - Clinical Practice in Medical-Surgical Nursing **Credit Hours: 7**
- NURS 360 - Mental Health and Family Nursing **Credit Hours: 4**
- NURS 375 - Nursing Care of Parents, Newborns and Children **Credit Hours: 8**
- NURS 430 - Perspectives in Global Health and Nursing **Credit Hours: 3**
- NURS 451 - Nursing Care of Adults with Complex Health Problems **Credit Hours: 7**
- NURS 460 - Community Health Nursing **Credit Hours: 4**
- NURS 486 - Nursing Leadership and Management **Credit Hours: 3**
- NURS 487 - Nursing Senior Capstone: Preparation for Licensure and Practice **Credit Hours: 7**

#### Required Support Courses: (43 Hours)

- BIOL 121 - Anatomy & Physiology I **Credit Hours: 4**

- BIOL 122 - Anatomy & Physiology II **Credit Hours: 4**
- BIOL 305 - Human Genetics **Credit Hours: 3**
- BIOL 312 - Microbiology **Credit Hours: 4**
- BIOL 346 - Pathophysiology **Credit Hours: 3**
- CHEM 108 - General, Organic, and Biological Chemistry **Credit Hours: 4**
- NUTR 231 - Nutrition Across the Lifespan **Credit Hours: 3**
- PHIL 305 - Biomedical Ethics **Credit Hours: 3**
- PSYC 101 - Introduction to Psychology **Credit Hours: 3**
- PSYC 208 - Lifespan Development **Credit Hours: 3**
- PSYC 231 - Applied Statistics **Credit Hours: 3**
- SOCI 101 - The Sociological Perspective **Credit Hours: 3**

One of the following:

- EXSC 333 - Motor Learning and Performance **Credit Hours: 3**
- EXSC 336 - Principles of Strength and Conditioning **Credit Hours: 3**
- EXSC 337 - Exercise Testing and Prescription **Credit Hours: 3**
- HLSC 307 - Health Communication and Promotion **Credit Hours: 3**
- HLSC 308 - Community Health **Credit Hours: 3**
- HLSC 312 - Social Gerontology **Credit Hours: 3**
- HLSC 315 - Public Health and Epidemiology **Credit Hours: 3**
- HLSC 322 - Health Policy **Credit Hours: 3**
- HLSC 326 - Health Care Finance **Credit Hours: 3**
- HLSC 345 - Personal Health **Credit Hours: 3**
- HLSC 415 - Advanced Epidemiology **Credit Hours: 3**
- NUTR 332 - Sport Nutrition and Supplementation **Credit Hours: 3**

## **Nutrition, Minor**

Minor Requirements: (20 Hours)

- CHEM 108 - General, Organic, and Biological Chemistry **Credit Hours: 4**
- EXSC 131 - Human Structure and Function **Credit Hours: 4**
- EXSC 337 - Exercise Testing and Prescription **Credit Hours: 3**
- NUTR 131 - Introduction to Nutrition **Credit Hours: 3**
- NUTR 231 - Nutrition Across the Lifespan **Credit Hours: 3**
- NUTR 332 - Sport Nutrition and Supplementation **Credit Hours: 3**

## **Occupational Science Major (MAP)**

**The Occupational Science major is designed primarily for already certified occupational therapy assistants (OTA's) who hold an Associate of Science (AS) degree**

# **and wish to obtain a Bachelor of Science (BS) degree in preparation for attending a Master of Occupational Therapy (MOT) or doctoral program in Occupational Therapy.**

Our program continues the occupation-based focus began in a comprehensive OTA program, and includes three OT specific content courses that will be taught by masters-trained and/or doctoral-trained occupational therapists. These foundational courses are supported by an array of holistic courses in psychology, anatomy and biological sciences, nutrition, wellness, informatics, statistics and communications.

## **Major Requirements: (30 Semester Hours)**

### **Occupational Science Core Requirements: (12 Credit Hours)**

- HLSC 301 - The American Health Care System **Credit Hours: 3**
- HLSC 304 - Statistics for the Health Sciences **Credit Hours: 3**
- HLSC 495 - Seminar in Health Science **Credit Hours: 3**

### **Choose one of the following:**

- HLSC 305 - Health Informatics **Credit Hours: 3**
- HLSC 307 - Health Communication and Promotion **Credit Hours: 3**

### **Foundational Core Requirements: (9 Credit Hours)**

- HLSC 351 - Occupational Science **Credit Hours: 3**
- HLSC 453 - Elder Cognitive Health & Wellness **Credit Hours: 3**
- HLSC 455 - Sensory Function Across the Lifespan **Credit Hours: 3**

### **Occupational Science Electives: (9 Credit Hours)**

### **Choose Three of the Following:**

- BIOL 346 - Pathophysiology **Credit Hours: 3**
- PSYC 363 - Abnormal Psychology **Credit Hours: 3**
- PSYC 409 - Topics in Psychology **Credit Hours: 3**
- PSYC 430 - Psychology of Injury **Credit Hours: 3**
- HLSC 312 - Social Gerontology **Credit Hours: 3**
- HLSC 322 - Health Policy **Credit Hours: 3**
- HLSC 330 - The Human Body: Structure and Function **Credit Hours: 3**
- HLSC 331 - Nutrition and Health **Credit Hours: 3**

## Customize Your Curriculum Plan

MAP majors are designed to accommodate the demands of your career and personal life. Most courses are offered multiple times per year within four 10-week terms. This allows you to:

- Adjust your course load: take only 1 or up to 4 courses each term
- Choose the pace at which you will complete your program: take courses in just one term each year, or in all 4
- Customized dual majors and or/minors: Your Health-Related Program Advisor will help you create a curriculum plan to meet your career goals

For additional information, contact Jennifer Baird, Allied Health Programs Advisor, at [jbaird@muskingum.edu](mailto:jbaird@muskingum.edu) or 740-826-8470

For a complete listing of MAP requirements, policies and procedures please refer to the Muskingum Adult Program Guidebook(pdf).

## Philosophy Major

### Major Requirements: (31 Hours)

At least 12 credit hours among the following:

- PHIL 101 - Introduction to Western Philosophy **Credit Hours: 3**
- PHIL 202 - Logic and Critical Thinking **Credit Hours: 3**
- PHIL 325 - Western Philosophy: The Ancients **Credit Hours: 3**
- PHIL 327 - Western Philosophy: The Early Moderns **Credit Hours: 3**
- PHIL 350 - Later Modern Philosophy **Credit Hours: 3**
- PHIL 355 - Comparative Philosophy **Credit Hours: 3**

Required:

- PHIL 495 - Senior Seminar Research in Philosophy **Credit Hours: 1**
- PHIL 496 - Senior Seminar **Credit Hours: 3**

### 15 additional hours

15 additional hours of PHIL courses for a total of 31 hours in the major. These hours may include one of the following:

- RELG 253 - Ethics, Reason, and the Bible **Credit Hours: 3**
- RELG 260 - Introduction to Christian Theology **Credit Hours: 3**
- RELG 342 - Religions and Philosophies of Asia **Credit Hours: 3**
- RELG 393 - Global Issues and Values **Credit Hours: 3**

## Philosophy, Minor

### Minor Requirements: (15 Hours)

- 15 hours in Philosophy (PHIL) offerings: option of one offering in Religion (RELG) with permission of department chair

## Physical Education Major

### Physical Education Major Requirements (27 hours)

- EXSC 131 - Human Structure and Function **Credit Hours: 4**
- EXSC 249 - Exercise Physiology **Credit Hours: 3**
- EXSC 338 - Kinesiology **Credit Hours: 3**
- PE 341 - Principles of Physical Education, Evaluation and Measurements **Credit Hours: 3**
- PE 416 - Teaching Physical Education Activities **Credit Hours: 4**
- SPST 203 - Foundations of Athletic Skill **Credit Hours: 3**
- SPST 418 - Coaching Team Sports **Credit Hours: 3**

### Electives:

- Two hours of Physical Education (PE) above the 100-level

## Physical Education, Minor

### Minor Requirements: (15 Hours)

- PE courses at the 200-level or above with at least 3 hours at the 300- or 400-level.

## Physics Education Major

### Physics Education Major Requirements: (102 Hours)

- PHEN 110 - Introduction to Physics and Engineering **Credit Hours: 2**
- PHEN 121 - Classical Physics I **Credit Hours: 4**
- PHEN 122 - Classical Physics II **Credit Hours: 4**
- PHEN 203 - Modern Physics **Credit Hours: 4**
- PHEN 210 - Statics **Credit Hours: 4**
- PHEN 235 - Electrical Circuit Analysis and Design **Credit Hours: 4**
- PHEN 310 - Optics **Credit Hours: 4**
- PHEN 492 - Introduction to Physics Education Senior Project **Credit Hours: 1**
- PHEN 497 - Physics Education Senior Project **Credit Hours: 3**
- CHEM 111 - General Chemistry I **Credit Hours: 4**
- CHEM 112 - General Chemistry II **Credit Hours: 4**
- CHEM 200 - Laboratory Safety **Credit Hours: 1**
- CPSC 100 - Introduction to Computer Science **Credit Hours: 3**
- EDUC 110 - Introduction to Education **Credit Hours: 1**
- EDUC 112 - Educational Implications of Diversity **Credit Hours: 3**

- EDUC 313 - Curriculum and Instruction for the Adolescent **Credit Hours: 3**
- EDUC 330 - Serving Individuals with Exceptionalities **Credit Hours: 3**
- EDUC 335 - Educational Technology **Credit Hours: 3**
- EDUC 341 - Assessment in Education **Credit Hours: 3**
- EDUC 394 - Integrated Science Methods for the Adolescent **Credit Hours: 3**
- EDUC 413 - Reading in the Content Areas **Credit Hours: 3**
- EDUC 419 - Co-teaching and Collaboration in Education **Credit Hours: 2**
- EDUC 420 - Proactive Approaches to Classroom Management and Support **Credit Hours: 2**
- EDUC 451 - Student Teaching in the Secondary School **Credit Hours: 9**
- EDUC 461 - Student Teaching Seminar **Credit Hours: 1**
- EDUC 466 - Professional Practices in Secondary Schools **Credit Hours: 2**
- MATH 190 - Calculus I **Credit Hours: 4**
- MATH 200 - Calculus II **Credit Hours: 4**
- MATH 230 - Linear Algebra and Vectors **Credit Hours: 3**
- MATH 310 - Calculus III **Credit Hours: 3**
- PSYC 101 - Introduction to Psychology **Credit Hours: 3**
- PSYC 308 - Adolescence and Youth **Credit Hours: 3**

## Physics Major

### Major Requirements (73 hours)

- PHEN 110 - Introduction to Physics and Engineering **Credit Hours: 2**
- PHEN 111 - Career Development in Physics and Engineering **Credit Hours: 1**
- PHEN 121 - Classical Physics I **Credit Hours: 4**
- PHEN 122 - Classical Physics II **Credit Hours: 4**
- PHEN 203 - Modern Physics **Credit Hours: 4**
- PHEN 210 - Statics **Credit Hours: 4**
- PHEN 211 - Dynamics **Credit Hours: 3**
- PHEN 310 - Optics **Credit Hours: 4**
- PHEN 320 - Thermodynamics **Credit Hours: 4**
- PHEN 340 - Theoretical Physics I **Credit Hours: 3**
- PHEN 370 - Electromagnetics **Credit Hours: 3**
- PHEN 430 - Theoretical Physics II **Credit Hours: 3**
- PHEN 491 - Introduction to Physics Senior Project **Credit Hours: 1**
- PHEN 496 - Physics Senior Project **Credit Hours: 3**
- CHEM 111 - General Chemistry I **Credit Hours: 4**
- CHEM 112 - General Chemistry II **Credit Hours: 4**
- CPSC 100 - Introduction to Computer Science **Credit Hours: 3**
- CPSC 111 - Computer Science I **Credit Hours: 3**
- MATH 190 - Calculus I **Credit Hours: 4**
- MATH 200 - Calculus II **Credit Hours: 4**
- MATH 230 - Linear Algebra and Vectors **Credit Hours: 3**
- MATH 310 - Calculus III **Credit Hours: 3**
- MATH 320 - Differential Equations **Credit Hours: 3** (automatic Math minor)
- Students must take the Educational Testing Service Major Field Test in Physics in the last semester of their senior year.



One of the following:

- MATH 340 - Mathematical Statistics **Credit Hours: 3**
- MATH 350 - Numerical Analysis **Credit Hours: 3**
- MATH 420 - Complex Analysis **Credit Hours: 3**

## **Physics, Minor**

Minor Requirements: (32 Hours)

- PHEN 110 - Introduction to Physics and Engineering **Credit Hours: 2**
- PHEN 121 - Classical Physics I **Credit Hours: 4**
- PHEN 122 - Classical Physics II **Credit Hours: 4**
- PHEN 203 - Modern Physics **Credit Hours: 4**
- PHEN 210 - Statics **Credit Hours: 4**
- PHEN 340 - Theoretical Physics I **Credit Hours: 3**
- MATH 190 - Calculus I **Credit Hours: 4**
- MATH 200 - Calculus II **Credit Hours: 4**
- MATH 230 - Linear Algebra and Vectors **Credit Hours: 3**

## **Political Science Major**

Major Requirements: (33 Hours)

Political Science Core Requirements: (15 Hours)

- POLS 111 - American Political Systems **Credit Hours: 3**
- CRMJ 240 - Introduction to Research Methods **Credit Hours: 3**  
or
- POLS 240 - Introduction to Research Methods **Credit Hours: 3**
- CRMJ 490 - Senior Seminar **Credit Hours: 3**  
or
- POLS 490 - Senior Seminar **Credit Hours: 3**

two courses from

- POLS 121 - Introduction to Public Administration and Policy **Credit Hours: 3**
- POLS 131 - Introduction to Comparative Politics **Credit Hours: 3**
- POLS 151 - Introduction to International Relations **Credit Hours: 3**

Distribution: (6 hours)

- one course from two of the following categories

### American Government courses: POLS 310-319

- POLS 310 - US National Security **Credit Hours: 3**
- POLS 311 - Congress and the Presidency **Credit Hours: 3**
- POLS 312 - Constitutional Law Governmental Powers **Credit Hours: 3**
- POLS 314 - Political Communication **Credit Hours: 3**
- POLS 317 - Constitutional Law II: Civil Rights and Liberties **Credit Hours: 3**
- POLS 319 - Political Parties and Elections **Credit Hours: 3**

### Public Administration/Policy courses: POLS 320-329

- POLS 321 - Public Administration **Credit Hours: 3**
- POLS 322 - Public Policy **Credit Hours: 3**
- POLS 323 - Administrative Law **Credit Hours: 3**
- POLS 324 - Urban Politics **Credit Hours: 3**
- POLS 325 - Public Sector Human Resource Management **Credit Hours: 3**
- POLS 326 - Regional Planning **Credit Hours: 3**
- POLS 328 - Applied Policy: Occupational Safety and Health **Credit Hours: 3**

### Comparative Politics courses: POLS-330-339

- POLS 331 - Politics of Western Europe **Credit Hours: 3**
- POLS 334 - Ethnic Conflict and Nationalism **Credit Hours: 3**
- POLS 336 - Russian Politics and Society **Credit Hours: 3**

### International Relations courses: POLS 350-359

- POLS 352 - American Foreign Policy **Credit Hours: 3**
- POLS 354 - Model United Nations **Credit Hours: 3**
- POLS 355 - Model United Nations Practicum **Credit Hours: 1**
- POLS 356 - War, Peace, and Security **Credit Hours: 3**
- POLS 358 - Russian Foreign Policy **Credit Hours: 3**

### Electives (12 hours):

- From departmental offerings, may include one additional course at the 100-level.

## **Political Science, Minor**

### Minor Requirements: (15 Hours)

- Six (6) hours at the 100 or 200 level
- Nine (9) hours at the 300 or 400 level

# Pre-Dentistry

## Pre-Dentistry Requirements:

### First Year Fall Semester

- CHEM 111 - General Chemistry I **Credit Hours: 4**
- MATH 190 - Calculus I **Credit Hours: 4**
- BIOL 111 - Organismal Biology I **Credit Hours: 3**
- BIOL 107 - Biology Laboratory I **Credit Hours: 1**
- ENGL 121 - Composition **Credit Hours: 3**

### First Year Spring Semester

- CHEM 112 - General Chemistry II **Credit Hours: 4**
- MATH 200 - Calculus II **Credit Hours: 4**
- BIOL 112 - Organismal Biology II **Credit Hours: 3**
- Social Sciences course

### Second Year Fall Semester

- CHEM 213 - Organic Chemistry I **Credit Hours: 4**
- PHEN 121 - Classical Physics I **Credit Hours: 4**
- BIOL 226 - Introduction to Cell and Molecular Biology **Credit Hours: 3**
- English/Social Sciences course

### Second Year Spring Semester

- CHEM 214 - Organic Chemistry II **Credit Hours: 4**
- PHEN 122 - Classical Physics II **Credit Hours: 4**
- BIOL 312 - Microbiology **Credit Hours: 4**
- English/Social Sciences course

### Third Year Fall Semester

- BIOL 121 - Anatomy & Physiology I **Credit Hours: 4**
- CHEM 418 - Biochemistry I **Credit Hours: 4**
- or
- CHEM 419 - Biochemistry II **Credit Hours: 3**

### Third Year Spring Semester

- BIOL 122 - Anatomy & Physiology II **Credit Hours: 4**
- MATH 140 - Practical Statistics **Credit Hours: 3**

## Upper-level Science Courses

The following upper-level science courses are highly recommended, and can be taken as offered, starting in the Spring Semester of the Second Year. (Many of these courses are alternate year courses.):

- CHEM 418 - Biochemistry I **Credit Hours: 4**
- CHEM 419 - Biochemistry II **Credit Hours: 3**
- BIOL 213 - Functional Histology **Credit Hours: 4**
- Courses in Ceramics or Sculpture, and Business &/or Marketing courses are also recommended.

## Pre-Law

### Pre-Law Minor Requirements: (22 Hours)

Only two courses from any given discipline can count toward completion of the minor.

### Pre-Law Core Requirements: (7 Hours)

- IDIS 360 - Pre-Law **Credit Hours: 1**
- LIBR 220 - Beyond Google: Research Skills and Resources **Credit Hours: 3**
- PHIL 202 - Logic and Critical Thinking **Credit Hours: 3**

### Distribution: (15 Hours)

One course from each category below:

#### Analytic/Problem-Solving Skills:

- COMM 335 - Small Group Communication **Credit Hours: 3**
- ENGL 361 - Language: Structure and Usage **Credit Hours: 3**
- POLS 312 - Constitutional Law Governmental Powers **Credit Hours: 3**
- POLS 317 - Constitutional Law II: Civil Rights and Liberties **Credit Hours: 3**

#### Critical Reading Abilities:

- ENGL 320 - Principles of Literary Study **Credit Hours: 3**
- ENGL 385 - Topics in Literature, Film, and Culture **Credit Hours: 3**
- HIST 372 - Empires of North America **Credit Hours: 3**
- PHIL 325 - Western Philosophy: The Ancients **Credit Hours: 3**
- THEA 352 - Dramatic Literature **Credit Hours: 3**

#### Writing Skills:

- ENGL 201 - Advanced Writing and Professional Development **Credit Hours: 3**
- ENGL 202 - Business Writing **Credit Hours: 3**

- HIST 380 - The History of the American Dream **Credit Hours: 3**
- PHIL 343 - Social and Political Philosophy **Credit Hours: 3**  
or
- POLS 343 - Social and Political Philosophy **Credit Hours: 3**  
or
- SOCI 335 - Social and Political Philosophy **Credit Hours: 3**
- SOCI 320 - Racial and Cultural Minorities **Credit Hours: 3**

#### Oral Communication:

- BUSI 416 - Professional Selling **Credit Hours: 3**
- COMM 205 - Professional Speaking **Credit Hours: 3**
- COMM 260 - Oral Interpretation of Literature **Credit Hours: 3**
- COMM 315 - Argumentation **Credit Hours: 3**
- COMM 345 - Interviewing **Credit Hours: 3**
- THEA 275 - Acting I **Credit Hours: 3**
- THEA 316 - Improvisation **Credit Hours: 3**

#### Law and Society:

- BUSI 360 - Business Law **Credit Hours: 3**
- MEDIA 420 - Media Law **Credit Hours: 3**
- POLS 323 - Administrative Law **Credit Hours: 3**
- PSYC 406 - Psychology of Law **Credit Hours: 3**

## Pre-Law, Minor

### Pre-Law Minor Requirements: (22 Hours)

Only two courses from any given discipline can count toward completion of the minor.

### Pre-Law Core Requirements: (7 Hours)

- IDIS 360 - Pre-Law **Credit Hours: 1**
- LIBR 220 - Beyond Google: Research Skills and Resources **Credit Hours: 3**
- PHIL 202 - Logic and Critical Thinking **Credit Hours: 3**

### Distribution: (15 Hours)

One course from each category below:

#### Analytic/Problem-Solving Skills:

- COMM 335 - Small Group Communication **Credit Hours: 3**

- ENGL 361 - Language: Structure and Usage **Credit Hours: 3**
- POLS 312 - Constitutional Law Governmental Powers **Credit Hours: 3**
- POLS 317 - Constitutional Law II: Civil Rights and Liberties **Credit Hours: 3**

### Critical Reading Abilities:

- ENGL 320 - Principles of Literary Study **Credit Hours: 3**
- ENGL 385 - Topics in Literature, Film, and Culture **Credit Hours: 3**
- HIST 372 - Empires of North America **Credit Hours: 3**
- PHIL 325 - Western Philosophy: The Ancients **Credit Hours: 3**
- THEA 352 - Dramatic Literature **Credit Hours: 3**

### Writing Skills:

- ENGL 201 - Advanced Writing and Professional Development **Credit Hours: 3**
- ENGL 202 - Business Writing **Credit Hours: 3**
- HIST 380 - The History of the American Dream **Credit Hours: 3**
- PHIL 343 - Social and Political Philosophy **Credit Hours: 3**  
or
- POLS 343 - Social and Political Philosophy **Credit Hours: 3**  
or
- SOCI 335 - Social and Political Philosophy **Credit Hours: 3**
- SOCI 320 - Racial and Cultural Minorities **Credit Hours: 3**

### Oral Communication:

- BUSI 416 - Professional Selling **Credit Hours: 3**
- COMM 205 - Professional Speaking **Credit Hours: 3**
- COMM 260 - Oral Interpretation of Literature **Credit Hours: 3**
- COMM 315 - Argumentation **Credit Hours: 3**
- COMM 345 - Interviewing **Credit Hours: 3**
- THEA 275 - Acting I **Credit Hours: 3**
- THEA 316 - Improvisation **Credit Hours: 3**

### Law and Society:

- BUSI 360 - Business Law **Credit Hours: 3**
- MEDIA 420 - Media Law **Credit Hours: 3**
- POLS 323 - Administrative Law **Credit Hours: 3**
- PSYC 406 - Psychology of Law **Credit Hours: 3**

## Pre-Med

### Pre-Med Requirements:

## First Year Fall Semester Courses

- CHEM 111 - General Chemistry I **Credit Hours: 4**
- MATH 190 - Calculus I **Credit Hours: 4**
- BIOL 111 - Organismal Biology I **Credit Hours: 3** (if Bio major also)
- ENGL 121 - Composition **Credit Hours: 3**

## First Year Spring Semester Courses

- CHEM 112 - General Chemistry II **Credit Hours: 4**
- MATH 200 - Calculus II **Credit Hours: 4**
- BIOL 112 - Organismal Biology II **Credit Hours: 3**
- PSYC 101 - Introduction to Psychology **Credit Hours: 3**

## Second Year Fall Semester Courses

- CHEM 213 - Organic Chemistry I **Credit Hours: 4**
- BIOL 226 - Introduction to Cell and Molecular Biology **Credit Hours: 3**
- PHEN 121 - Classical Physics I **Credit Hours: 4**
- English/Social Sciences Course

## Second Year Spring Semester Courses

- CHEM 214 - Organic Chemistry II **Credit Hours: 4**
- PHEN 122 - Classical Physics II **Credit Hours: 4**
- English/Social Science course

## Third Year Fall Semester Courses

- CHEM 418 - Biochemistry I **Credit Hours: 4**  
or
- CHEM 419 - Biochemistry II **Credit Hours: 3**
- Philosophy/Ethics course

## Third Year Spring Semester Courses

- Philosophy/Ethics course

## Upper-level science courses

The following upper-level science courses are highly recommended, and can be taken as offered, starting in the Spring Semester of the Second Year. (Many of these courses are alternate year courses):

- CHEM 418 - Biochemistry I **Credit Hours: 4**  
or
- CHEM 419 - Biochemistry II **Credit Hours: 3**

- BIOL 306 - Genetics **Credit Hours: 4**
  - BIOL 312 - Microbiology **Credit Hours: 4**
  - Philosophy & Ethics courses \*
- A Statistics course and Intro to Sociology are also recommended**

## Pre-Occupational Therapy

You must complete a major in addition to each schools' pre-requisite courses. Many students choose a major that requires courses that are part of the list of pre-requisites.

Be sure to examine the specific pre-requisites for the each school to which you plan to apply. The following are common courses listed as pre-requisites for several Clinical Degree in Occupational Therapy Programs.

## Pre-Occupational Therapy Requirements:

### common courses

- BIOL 111 - Organismal Biology I **Credit Hours: 3** And
- BIOL 107 - Biology Laboratory I **Credit Hours: 1**
- BIOL 112 - Organismal Biology II **Credit Hours: 3** And
- BIOL 108 - Biology Laboratory II **Credit Hours: 1**
- BIOL 121 - Anatomy & Physiology I **Credit Hours: 4** And
- BIOL 122 - Anatomy & Physiology II **Credit Hours: 4**
- \* For Cleveland State: BIOL 346 - Pathophysiology & BIOL 368 - Fundamental Neuroscience
- CHEM 111 - General Chemistry I **Credit Hours: 4** And
- CHEM 112 - General Chemistry II **Credit Hours: 4**
- PSYC 101 - Introduction to Psychology **Credit Hours: 3**
- PSYC 232 - Behavioral Statistics **Credit Hours: 3**  
or
- MATH 140 - Practical Statistics **Credit Hours: 3**
- PSYC 363 - Abnormal Psychology **Credit Hours: 3**
- \* For Cleveland State: PSYC 208 - Lifespan Development
- SOCI 101 - The Sociological Perspective **Credit Hours: 3**
- ENGL 121 - Composition **Credit Hours: 3**
- ENGL 201 - Advanced Writing and Professional Development **Credit Hours: 3**  
or
- ENGL 202 - Business Writing **Credit Hours: 3**
- HLSC 110 - Medical Terminology I **Credit Hours: 1** And



- HLSC 111 - Medical Terminology II **Credit Hours: 1**

## Recommended Courses:

Advanced Physiology of Exercise, Kinesiology, Sports Medicine

It is recommended to also have 40 hours of observation.

## Job Shadowing Experiences

- Altmann West, Massillon, OH
- Genesis Center for Occupational & Outpatient Rehabilitation (COOR), Zanesville, OH
- Cleveland Clinic, Cleveland, OH
- Concorde Kids, Canton, OH
- Kettering Health Network, Dayton, OH and surrounding areas

and more...

## Pre-Optometry

### Pre-Optometry Requirements:

You must complete a major in addition to each schools' pre-requisite courses. Many students choose a major that requires courses that are part of the list of pre-requisites.

Be sure to examine the specific pre-requisites for the each school to which you plan to apply.

- BIOL 111 - Organismal Biology I **Credit Hours: 3** with labs And
- BIOL 107 - Biology Laboratory I **Credit Hours: 1** with labs
- BIOL 112 - Organismal Biology II **Credit Hours: 3** with labs And
- BIOL 107 - Biology Laboratory I **Credit Hours: 1** with labs
- CHEM 111 - General Chemistry I **Credit Hours: 4** with labs And
- CHEM 112 - General Chemistry II **Credit Hours: 4** with labs
- CHEM 213 - Organic Chemistry I **Credit Hours: 4** with labs And
- CHEM 214 - Organic Chemistry II **Credit Hours: 4** with labs
- \*For Pennsylvania College of Optometry: 1 semester Organic Chemistry
- CHEM 418 - Biochemistry I **Credit Hours: 4** (this is required for Ohio State University) And
- CHEM 419 - Biochemistry II **Credit Hours: 3** (this is required for Ohio State University)
- \*For Pennsylvania College of Optometry: 1 semester of Biochemistry OR 1 semester Molecular Biology
- PHEN 121 - Classical Physics I **Credit Hours: 4** with labs And
- PHEN 122 - Classical Physics II **Credit Hours: 4** with labs

- BIOL 312 - Microbiology **Credit Hours: 4** with labs
- MATH 190 - Calculus I **Credit Hours: 4** (MATH 190 & MATH 200 are highly recommended)
- PSYC 101 - Introduction to Psychology **Credit Hours: 3**
- PSYC 232 - Behavioral Statistics **Credit Hours: 3**
- ENGL 121 - Composition **Credit Hours: 3** & an English Literature course
- Social science course
- Other humanities

The following courses are required by many Physician's Assistant Programs:

- CHEM 213 - Organic Chemistry I **Credit Hours: 4** And
- CHEM 214 - Organic Chemistry II **Credit Hours: 4**
  
- CHEM 418 - Biochemistry I **Credit Hours: 4**  
or
- CHEM 419 - Biochemistry II **Credit Hours: 3**

## Pre-Pharmacy

Pre-Pharmacy Requirements:

### Academic Plan

Students also have to complete all requirements for a major of their choice as well as all General Education requirements.

### First Year Fall Semester

- CHEM 111 - General Chemistry I **Credit Hours: 4**
- MATH 190 - Calculus I **Credit Hours: 4**
- PSYC 101 - Introduction to Psychology **Credit Hours: 3**
- ENGL 121 - Composition **Credit Hours: 3**

### First Year Spring Semester

- CHEM 112 - General Chemistry II **Credit Hours: 4**
- MATH 200 - Calculus II **Credit Hours: 4**
- BIOL 112 - Organismal Biology II **Credit Hours: 3**

### Second Year Fall Semester

- CHEM 213 - Organic Chemistry I **Credit Hours: 4**
- PHEN 121 - Classical Physics I **Credit Hours: 4**
- English/Social Sciences course

- English/Social Sciences course

## Second Year Spring Semester

- CHEM 214 - Organic Chemistry II **Credit Hours: 4**
- PHEN 121 - Classical Physics I **Credit Hours: 4**
- BIOL 312 - Microbiology **Credit Hours: 4**

## Third Year Fall Semester

- BIOL 121 - Anatomy & Physiology I **Credit Hours: 4**
- CHEM 418 - Biochemistry I **Credit Hours: 4**
- or
- CHEM 419 - Biochemistry II **Credit Hours: 3**

## Third Year Spring Semester

- BIOL 122 - Anatomy & Physiology II **Credit Hours: 4**
- MATH 140 - Practical Statistics **Credit Hours: 3**

## Upper-level science courses

The following upper-level science courses are highly recommended, and can be taken as offered, starting in the Spring Semester of the Second Year. (Many of these courses are alternate year courses.):

- CHEM 418 - Biochemistry I **Credit Hours: 4**
- CHEM 419 - Biochemistry II **Credit Hours: 3**
- BIOL 306 - Genetics **Credit Hours: 4**
- Marketing courses are also recommended

## [3+1] Chemistry Major Pathway for Pre-Pharmacy Students

Students complete this program in 3 years at Muskingum, followed by completion of the First Year of Pharmacy School to earn the BS Degree from Muskingum University, resulting in one less year to earn the PharmD.

### Degree Requirements:

- CHEM 111 - General Chemistry I **Credit Hours: 4**
- CHEM 112 - General Chemistry II **Credit Hours: 4**
- CHEM 213 - Organic Chemistry I **Credit Hours: 4**
- CHEM 214 - Organic Chemistry II **Credit Hours: 4**
- CHEM 315 - Physical Chemistry I **Credit Hours: 4**
- CHEM 335 - Analytical Chemistry **Credit Hours: 4**
- CHEM 355 - Advanced Laboratory in Chemistry **Credit Hours: 3**
- CHEM 418 - Biochemistry I **Credit Hours: 4**
- or
- CHEM 419 - Biochemistry II **Credit Hours: 3**

- BIOL 121 - Anatomy & Physiology I **Credit Hours: 4**
- BIOL 122 - Anatomy & Physiology II **Credit Hours: 4**
- BIOL 312 - Microbiology **Credit Hours: 4**
- MATH 190 - Calculus I **Credit Hours: 4**
- MATH 200 - Calculus II **Credit Hours: 4**
- PHEN 121 - Classical Physics I **Credit Hours: 4**
- PHEN 122 - Classical Physics II **Credit Hours: 4**
- Complete all Gen Ed categories except Categories 8, Health & 13, U.S. Experience

### Recommended electives:

- MATH 140 - Practical Statistics **Credit Hours: 3**  
or
- PSYC 232 - Behavioral Statistics **Credit Hours: 3**
- ECON 215 - Principles of Microeconomics **Credit Hours: 3**
- BIOL 305 - Human Genetics **Credit Hours: 3**

Total credit hours to be completed at Muskingum University: 95-99

Total of upper-level hours to be completed at Muskingum University: 26

Minimum of 36 hours to be completed in the first year of an accredited Pharm.D. Program with Pass Grades earned in all of these courses - student needs to have the transcript sent from the Pharm.D. School to Muskingum University.

## Pre-Physical Therapy

You must complete a major in addition to each schools' pre-requisite courses. Many students choose a major that requires courses that are part of the list of pre-requisites.

Be sure to examine the specific pre-requisites for the each school to which you plan to apply. The following are common courses listed as pre-requisites for several Clinical Doctorate in Physical Therapy Programs.

### Pre-Physical Therapy Requirements:

- BIOL 111 - Organismal Biology I **Credit Hours: 3** And
- BIOL 107 - Biology Laboratory I **Credit Hours: 1**
- BIOL 112 - Organismal Biology II **Credit Hours: 3** And
- BIOL 108 - Biology Laboratory II **Credit Hours: 1**
- BIOL 121 - Anatomy & Physiology I **Credit Hours: 4**
- BIOL 122 - Anatomy & Physiology II **Credit Hours: 4**
- BIOL 312 - Microbiology **Credit Hours: 4**
- CHEM 111 - General Chemistry I **Credit Hours: 4**
- CHEM 112 - General Chemistry II **Credit Hours: 4**
- PHEN 121 - Classical Physics I **Credit Hours: 4**
- PHEN 122 - Classical Physics II **Credit Hours: 4**

- PSYC 101 - Introduction to Psychology **Credit Hours: 3**
- PSYC 232 - Behavioral Statistics **Credit Hours: 3**  
or
- MATH 140 - Practical Statistics **Credit Hours: 3**
- Upper level Psychology and/or PSYC 208 - Lifespan Development
- HLSC 110 - Medical Terminology I **Credit Hours: 1**
- HLSC 111 - Medical Terminology II **Credit Hours: 1**
- EXSC 349 - Advanced Exercise Physiology **Credit Hours: 3**
- SPST 355 - Sports Ethics **Credit Hours: 3**

## Pre-Physician's Assistant

You must complete a major in addition to each schools' pre-requisite courses. Many students choose a major that requires courses that are part of the list of pre-requisites.

Be sure to examine the specific pre-requisites for the each school to which you plan to apply. The following are common courses listed as pre-requisites for several Clinical Degree in Physician's Assistant Programs.

### Pre-Physician's Assistant Requirements:

- BIOL 121 - Anatomy & Physiology I **Credit Hours: 4** And
- BIOL 122 - Anatomy & Physiology II **Credit Hours: 4**
- BIOL 226 - Introduction to Cell and Molecular Biology **Credit Hours: 3**
- BIOL 312 - Microbiology **Credit Hours: 4**
- CHEM 111 - General Chemistry I **Credit Hours: 4** And
- CHEM 112 - General Chemistry II **Credit Hours: 4**
- PSYC 101 - Introduction to Psychology **Credit Hours: 3**
- \* For University of Findlay: MATH 140 - Practical Statistics or higher
- \* For Marietta College: PSYC 363 - Abnormal Psychology
- \* For University of Findlay: PHEN 121 - Classical Physics I & PHEN 122 - Classical Physics II with labs
- SOCI 101 - The Sociological Perspective **Credit Hours: 3**
- HLSC 110 - Medical Terminology I **Credit Hours: 1** And
- HLSC 111 - Medical Terminology II **Credit Hours: 1**

## Pre-Social Work

Pre-Social Work Minor Requirements: (22 Hours)

Pre-Social Work Core Requirements: (12 Hours)

- ECON 215 - Principles of Microeconomics **Credit Hours: 3**

- POLS 111 - American Political Systems **Credit Hours: 3**
- PSYC 101 - Introduction to Psychology **Credit Hours: 3**
- SOCI 101 - The Sociological Perspective **Credit Hours: 3**

### Distribution: (10 Hours)

- one from each category below:

#### Human Biology

- BIOL 106 (Human Biology) or other Human Biology classes as determined by an advisor

#### Statistics

- BUSI 325 - Statistics **Credit Hours: 3**
- MATH 140 - Practical Statistics **Credit Hours: 3**
- PSYC 232 - Behavioral Statistics **Credit Hours: 3**

#### At Least One of the Following:

- CRMJ 372 - Juvenile Justice **Credit Hours: 3**
- POLS 321 - Public Administration **Credit Hours: 3**
- POLS 322 - Public Policy **Credit Hours: 3**
- PSYC 363 - Abnormal Psychology **Credit Hours: 3**
- PSYC 390 - Counseling Theory and Process **Credit Hours: 3**
- SOCI 320 - Racial and Cultural Minorities **Credit Hours: 3**
- SOCI 345 - Sociology of the Family **Credit Hours: 3**

## **Pre-Social Work, Minor**

### Pre-Social Work Minor Requirements: (22 Hours)

#### Pre-Social Work Core Requirements: (12 Hours)

- ECON 215 - Principles of Microeconomics **Credit Hours: 3**
- POLS 111 - American Political Systems **Credit Hours: 3**
- PSYC 101 - Introduction to Psychology **Credit Hours: 3**
- SOCI 101 - The Sociological Perspective **Credit Hours: 3**

### Distribution: (10 Hours)

- one from each category below:

#### Human Biology

- BIOL 106 (Human Biology) or other Human Biology classes as determined by an advisor

## Statistics

- BUSI 325 - Statistics **Credit Hours: 3**
- MATH 140 - Practical Statistics **Credit Hours: 3**
- PSYC 232 - Behavioral Statistics **Credit Hours: 3**

## At Least One of the Following:

- CRMJ 372 - Juvenile Justice **Credit Hours: 3**
- POLS 321 - Public Administration **Credit Hours: 3**
- POLS 322 - Public Policy **Credit Hours: 3**
- PSYC 363 - Abnormal Psychology **Credit Hours: 3**
- PSYC 390 - Counseling Theory and Process **Credit Hours: 3**
- SOCI 320 - Racial and Cultural Minorities **Credit Hours: 3**
- SOCI 345 - Sociology of the Family **Credit Hours: 3**

## Pre-Veterinary

### Pre-Veterinary Requirements:

### Academic Plan

#### First Year Fall Semester

- CHEM 111 - General Chemistry I **Credit Hours: 4**
- MATH 190 - Calculus I **Credit Hours: 4**
- BIOL 111 - Organismal Biology I **Credit Hours: 3**
- ENGL 121 - Composition **Credit Hours: 3**

#### First Year Spring Semester

- CHEM 111 - General Chemistry I **Credit Hours: 4**
- MATH 200 - Calculus II **Credit Hours: 4**
- BIOL 112 - Organismal Biology II **Credit Hours: 3**
- Social Sciences course

#### Second Year Fall Semester

- CHEM 213 - Organic Chemistry I **Credit Hours: 4**
- PHEN 121 - Classical Physics I **Credit Hours: 4**
- BIOL 226 - Introduction to Cell and Molecular Biology **Credit Hours: 3**
- English/Social Sciences course

## Second Year Spring Semester

- CHEM 214 - Organic Chemistry II **Credit Hours: 4**
- PHEN 122 - Classical Physics II **Credit Hours: 4**
- BIOL 312 - Microbiology **Credit Hours: 4**
- English/Social Sciences course

## Third Year Fall Semester

- BIOL 121 - Anatomy & Physiology I **Credit Hours: 4**
- CHEM 418 - Biochemistry I **Credit Hours: 4**  
or
- CHEM 419 - Biochemistry II **Credit Hours: 3**

## Third Year Spring Semester

- BIOL 122 - Anatomy & Physiology II **Credit Hours: 4**
- MATH 140 - Practical Statistics **Credit Hours: 3**

## Upper-level science courses

The following upper-level science courses are highly recommended, and can be taken as offered, starting in the Fall Semester of the Third Year (Many of these courses are alternate year courses):

- CHEM 418 - Biochemistry I **Credit Hours: 4**
- CHEM 419 - Biochemistry II **Credit Hours: 3**
- BIOL 306 - Genetics **Credit Hours: 4**
- BIOL 213 - Functional Histology **Credit Hours: 4**

## Psychology Major

### Major Requirements: (34 Hours)

- PSYC 101 - Introduction to Psychology **Credit Hours: 3**
- PSYC 151 - General Experimental Psychology **Credit Hours: 4**
- PSYC 232 - Behavioral Statistics **Credit Hours: 3**
- PSYC 351 - Advanced Experimental Psychology **Credit Hours: 4**
- PSYC 493 - Comprehensive Review **Credit Hours: 2**
- PSYC 495 - Senior Studies **Credit Hours: 2**

### Electives:

One course from each of the following perspectives (one of the four courses must include a lab):

### Biological:



- PSYC 281 - Physiological Psychology **Credit Hours: 3**
- PSYC 361 - Sensation and Perception **Credit Hours: 4** (lab)
- PSYC 371 - Psychopharmacology **Credit Hours: 4** (lab)

### Cognitive/Social:

- PSYC 304 - Learning and Memory **Credit Hours: 3**
- PSYC 305 - Cognitive Psychology **Credit Hours: 4** (lab)
- PSYC 321 - Social Psychology **Credit Hours: 3**
- PSYC 359 - Psychological Testing **Credit Hours: 4** (lab)

### Developmental:

- PSYC 205 - Child Development **Credit Hours: 3**
- PSYC 208 - Lifespan Development **Credit Hours: 3**
- PSYC 308 - Adolescence and Youth **Credit Hours: 3**
- PSYC 309 - Adulthood and Aging **Credit Hours: 3**

### Clinical/Applied:

- PSYC 290 - Theories of Personality **Credit Hours: 3**
- PSYC 363 - Abnormal Psychology **Credit Hours: 3**
- PSYC 390 - Counseling Theory and Process **Credit Hours: 3**
- PSYC 406 - Psychology of Law **Credit Hours: 3**

### Electives:

Take remaining hours from PSYC for a total of 34

### Double Majors:

Students choosing to major in psychology and another department are required to do only one Senior Studies project, registering for Senior Studies in one of the departments and establishing contact with an advisor in the other. The project must be empirical in nature and satisfactory to both departments. A copy of the work is turned in to each department and both a poster and an oral presentation are made to the psychology department. The student must take an additional 300- or 400- level class in the major for which the Senior Studies is not taken.

## Psychology Minor

### Minor Requirements:

- 15 hours with at least one three-credit course at the 300- or 400-level

## Public Administration Major

## Major Requirements: (42 Hours)

(36 Hours)

- ACCT 201 - Financial Accounting **Credit Hours: 3**
- CRMJ 240 - Introduction to Research Methods **Credit Hours: 3**  
or
- POLS 240 - Introduction to Research Methods **Credit Hours: 3**
- ECON 215 - Principles of Microeconomics **Credit Hours: 3**
- ECON 216 - Principles of Macroeconomics **Credit Hours: 3**
  
- ENGL 201 - Advanced Writing and Professional Development **Credit Hours: 3**  
or
- ENGL 202 - Business Writing **Credit Hours: 3**
- IDIS 250 - Career Field Experience **Credit Hours: 1-2** (3 hours)  
or
- IDIS 300 - Internship **Credit Hours: 1-6**
- POLS 121 - Introduction to Public Administration and Policy **Credit Hours: 3**
- POLS 321 - Public Administration **Credit Hours: 3**
- POLS 322 - Public Policy **Credit Hours: 3**

Two of the following:

- POLS 323 - Administrative Law **Credit Hours: 3**
- POLS 325 - Public Sector Human Resource Management **Credit Hours: 3**
- POLS 326 - Regional Planning **Credit Hours: 3**
  
- POLS 328 - Applied Policy: Occupational Safety and Health **Credit Hours: 3**  
or
- GEOG 310 - Introduction to Geographic Information Systems **Credit Hours: 3**

Cognate Area: (6 upper level hours)

Students are required to secure approval from the Chair of the Department for a course of study that will enhance their preparation in Public Administration. (For example students who have an interest in historic districts might choose History, those interested in grant writing might find English to be helpful, and those interested in Parks and Recreation might find Health Science or Biology appropriate. Students may NOT choose Political Science as a cognate area.)

## Public Health Studies Major

Major Requirements: (40-46 Hours)

(19 hours)

- HLSC 101 - Introduction to Health Sciences **Credit Hours: 1**
- HLSC 151 - Global Health **Credit Hours: 3**
- HLSC 315 - Public Health and Epidemiology **Credit Hours: 3**

- HLSC 322 - Health Policy **Credit Hours: 3**
- HLSC 496 - Seminar in Public Health Studies **Credit Hours: 3**
- HLSC 304 - Statistics for the Health Sciences **Credit Hours: 3**  
or
- PSYC 231 - Applied Statistics **Credit Hours: 3**  
or
- PSYC 232 - Behavioral Statistics **Credit Hours: 3**
- PHIL 305 - Biomedical Ethics **Credit Hours: 3**

## Electives: (21-27 hours)

Choose a total of seven of the following courses with at least three from category A and at least one each from categories B and C.

### A: Social, Behavioral and Environmental Determinants of Health

- CHEM 235 - Environmental Chemistry **Credit Hours: 4**
- CRMJ 342 - Criminology **Credit Hours: 3**
- CVSC 331 - Conservation Biology **Credit Hours: 4**
- HIST 385 - American Environmental History **Credit Hours: 3**
- HLSC 312 - Social Gerontology **Credit Hours: 3**
- NUTR 131 - Introduction to Nutrition **Credit Hours: 3**  
or
- NUTR 231 - Nutrition Across the Lifespan **Credit Hours: 3**  
or
- HLSC 331 - Nutrition and Health **Credit Hours: 3**
  
- PSYC 208 - Lifespan Development **Credit Hours: 3**
- PSYC 281 - Physiological Psychology **Credit Hours: 3**
- PSYC 321 - Social Psychology **Credit Hours: 3**
- PSYC 363 - Abnormal Psychology **Credit Hours: 3**
- SOCI 216 - Social Problems in Contemporary America **Credit Hours: 3**
- SOCI 320 - Racial and Cultural Minorities **Credit Hours: 3**
- SOCI 330 - Human Sexuality **Credit Hours: 3**
- SOCI 345 - Sociology of the Family **Credit Hours: 3**
- SOCI 370 - Environmental Sociology **Credit Hours: 3**

### B: Health Program Planning and Assessment

- GEOG 310 - Introduction to Geographic Information Systems **Credit Hours: 3**
- HLSC 307 - Health Communication and Promotion **Credit Hours: 3**
- HLSC 308 - Community Health **Credit Hours: 3**
- HLSC 345 - Personal Health **Credit Hours: 3**
- HLSC 415 - Advanced Epidemiology **Credit Hours: 3**
- POLS 322 - Public Policy **Credit Hours: 3**
- POLS 328 - Applied Policy: Occupational Safety and Health **Credit Hours: 3**

## C: Physiologic and Molecular Determinants of Health

- BIOL 112 - Organismal Biology II **Credit Hours: 3** and
- BIOL 108 - Biology Laboratory II **Credit Hours: 1**  
or
- BIOL 121 - Anatomy & Physiology I **Credit Hours: 4**  
or
- BIOL 122 - Anatomy & Physiology II **Credit Hours: 4**  
or
- EXSC 131 - Human Structure and Function **Credit Hours: 4**
- BIOL 305 - Human Genetics **Credit Hours: 3**  
or
- BIOL 306 - Genetics **Credit Hours: 4**
- BIOL 312 - Microbiology **Credit Hours: 4**
- BIOL 346 - Pathophysiology **Credit Hours: 3**
- BIOL 375 - Molecular Biology **Credit Hours: 4**

## Public Health Studies, Minor

### Minor Requirements: (16 Hours)

- HLSC 101 - Introduction to Health Sciences **Credit Hours: 1**
- HLSC 151 - Global Health **Credit Hours: 3**
- HLSC 315 - Public Health and Epidemiology **Credit Hours: 3**
- HLSC 322 - Health Policy **Credit Hours: 3**
- HLSC 304 - Statistics for the Health Sciences **Credit Hours: 3**  
or
- PSYC 231 - Applied Statistics **Credit Hours: 3**  
or
- PSYC 232 - Behavioral Statistics **Credit Hours: 3**
- PHIL 305 - Biomedical Ethics **Credit Hours: 3**

## Public Relations Major

(Not Accepting New Majors)

### Major Requirements: (49 Hours)

### Public Relations Core Requirements: (49 Hours)

- PBRL 201 - Introduction to Public Relations **Credit Hours: 3**
- PBRL 315 - Case Studies and Campaigns **Credit Hours: 3**
- PBRL 399 - Internship **Credit Hours: 3**
- PBRL 495 - Seminar **Credit Hours: 3**
- COMM 101 - Communication Practicum **Credit Hours: 1** (3 hours, 1 hour each)

- COMM 201 - Communication Practicum **Credit Hours: 1** (3 hours, 1 hour each)
- COMM 301 - Communication Practicum **Credit Hours: 1** (3 hours, 1 hour each)
- COMM 401 - Communication Practicum **Credit Hours: 1** (3 hours, 1 hour each)
- COMM 325 - Communication Theory **Credit Hours: 3**
- COMM 360 - Research Methods **Credit Hours: 3**
- ENGL 316 - Public Relations Writing **Credit Hours: 3**
  
- ENGL 317 - Journalistic Ethics **Credit Hours: 3**  
or
- COMM 345 - Interviewing **Credit Hours: 3**
- MEDIA 420 - Media Law **Credit Hours: 3**
- ENGL 207 - Print Writing and Reporting **Credit Hours: 3**  
or
- JOURN 207 - Print Writing and Reporting **Credit Hours: 3**
- JOURN 219 - Photojournalism **Credit Hours: 3**  
or
- MEDIA 300 - Visual Communication **Credit Hours: 3**
- MEDIA 150 - Introduction to Convergent Media **Credit Hours: 3**
- MEDIA 210 - Media Literacy **Credit Hours: 3**
- MEDIA 240 - Broadcast Writing and Reporting **Credit Hours: 3**
  
- MEDIA 365 - Audio Production **Credit Hours: 3**  
or
- MEDIA 308 - Single Camera Video Production and Editing **Credit Hours: 3**

## Religion Major

### Major Requirements: (31 Hours)

- RELG 153 - World Religions **Credit Hours: 3**
- RELG 260 - Introduction to Christian Theology **Credit Hours: 3**
- RELG 301 - Old Testament Literature **Credit Hours: 3**
- RELG 303 - New Testament Literature **Credit Hours: 3**
- RELG 495 - Senior Seminar Research in Religion **Credit Hours: 1**
- RELG 496 - Senior Seminar **Credit Hours: 3**

### Electives (15 hours total)

- Choose at least one elective from each of the categories.
- RELG 290, RELG 360, and RELG 401 may count towards any category with departmental approval
- 9 elective hours must be at the 300 level or higher
- One PHIL elective course may take place of a RELG course with approval of Department Chair.

### Practical/Reflective:

- RELG 253 - Ethics, Reason, and the Bible **Credit Hours: 3**
- RELG 393 - Global Issues and Values **Credit Hours: 3**

- RELG 398 - Internship in Religion **Credit Hours: 1-2**
- RELG 399 - Continuing Internship in Religion **Credit Hours: 1-2**

### Comparative:

- RELG 153 - World Religions **Credit Hours: 3**
- RELG 252 - The Judeo-Christian Tradition **Credit Hours: 3**
- RELG 356 - Death and Dying in the World Religions **Credit Hours: 3**

### Cultural:

- RELG 251 - The World of Islam **Credit Hours: 3**
- RELG 261 - Women and the Bible **Credit Hours: 3**
- RELG 302 - History and the Bible **Credit Hours: 3**
- RELG 352 - Religion and Film **Credit Hours: 3**
- RELG 353 - Religion and Gender **Credit Hours: 3**

### Scriptural/Sacred Texts:

- RELG 150 - Biblical Theology **Credit Hours: 3**
- RELG 301 - Old Testament Literature **Credit Hours: 3**
- RELG 303 - New Testament Literature **Credit Hours: 3**
- RELG 304 - Jesus in the New Testament **Credit Hours: 3**
- RELG 342 - Religions and Philosophies of Asia **Credit Hours: 3**
- RELG 395 - World Mythology **Credit Hours: 3**

## Religion, Minor

### Minor Requirements: (15 Hours)

- 15 hours in Religion (RELG) offerings: option of one offering in Philosophy (PHIL) with permission of department chair

## Self-Designed Major

Students planning a self-designed interdisciplinary major (SDIM) consult appropriate academic and department advisors in developing a rationale and course of action for the major. The primary consideration for approval of an SDIM is that the proposal demonstrates respect for the depth that the major traditionally provides in the liberal arts curriculum. The SDIM major encompasses work from at least three departments and consists of no fewer than 40 or more than 60 hours, with a limit of 30 hours in any one department. In addition, an SDIM proposal should make provision for an appropriate seminar or "capstone" experience. The application process for an SDIM may begin as early as the sophomore year but must be completed no later than the end of the first semester of the junior year. To propose an SDIM, a student submits a written proposal to the Provost for consideration by the Curriculum Committee. The proposal shall include: (1) a statement of intended career or plans for graduate or professional study after graduation; (2) reasons why an SDIM is preferable to an established major; (3) an overview of the program of study thus far; (4) a proposed program or focus of study that lists courses by departments; (5) a proposed class schedule for the remaining semesters at Muskingum which has been reviewed by the Registrar; (6) an unofficial transcript of all

Muskingum transfer courses; (7) signed statements of endorsement of the proposal by advisor(s) and chairs of the respective departments in which the proposed courses comprising the SDIM would be taken.

SDIMs are noted on the transcript as interdisciplinary and self-designed, together with identification of the three principal disciplines as defined in the approval proposal. e.g. IDIS (self designed); ART-PSYC-EDUC. Copies of the approved program will be kept on file by advisor (s), the Registrar, and the Provost or the VPGCS as appropriate. The Registrar will consider receipt of a copy of an approved SDIM to be an official declaration of major.

## **Sociology Major**

### **Major Requirements: (30 Hours)**

- SOCI 101 - The Sociological Perspective **Credit Hours: 3**
- SOCI 360 - Social Research Methods **Credit Hours: 3**
- SOCI 422 - Sociological Theory **Credit Hours: 3**
- SOCI 490 - Round Table **Credit Hours: 1** (twice)
- SOCI 495 - Senior Studies **Credit Hours: 2**
- SOCI 496 - Senior Studies **Credit Hours: 2**

### **Electives:**

Remainder of hours from other sociology offerings.

## **Sociology, Minor**

### **Minor Requirements: (15 Hours)**

- SOCI 101 - The Sociological Perspective **Credit Hours: 3**
- three hours at 300- or 400-level

### **Electives:**

Remainder of hours from other departmental offerings

## **Spanish Major**

### **Spanish Major Requirements: (33 hours beyond 112)**

Study Abroad, SPAN 310, SPAN 431, one course in another foreign language at the appropriate level. Enrollment in Spanish Table (SPAN 251/SPAN 291) expected every semester, required when not enrolled in a Spanish course; 2 hours applied to major or minor. No more than one upper-level Spanish courses taught in English is allowed to count toward major requirements.

## **Spanish, Minor**

## Minor Requirements: (19 Hours)

- 19 credit hours in Spanish courses taught in Spanish, to include SPAN 240 or one 300 level course taught in Spanish.

## Special Education Major

Special Education major prepares individuals to work with students with special needs in grades K-12 and leads to the Intervention Specialist: Mild to Moderate (K-12) license.

## Major Requirements

### Course requirements include:

- EDUC 110 - Introduction to Education **Credit Hours: 1**
- EDUC 112 - Educational Implications of Diversity **Credit Hours: 3**
- EDUC 215 - Educational Psychology **Credit Hours: 3**
- EDUC 220 - Mathematics Content for Early Childhood and Intervention Specialist Teachers **Credit Hours: 3**
- EDUC 309 - Early Childhood Education and Curriculum **Credit Hours: 3**
- EDUC 312 - Developmentally Responsive Middle Schools **Credit Hours: 3**
- EDUC 313 - Curriculum and Instruction for the Adolescent **Credit Hours: 3**  
or
- EDUC 314 - Multi-Age Curriculum and Instruction **Credit Hours: 3**
- EDUC 330 - Serving Individuals with Exceptionalities **Credit Hours: 3**
- EDUC 335 - Educational Technology **Credit Hours: 3**
- EDUC 340 - Nature and Needs of Students with Disabilities **Credit Hours: 3**
- EDUC 341 - Assessment in Education **Credit Hours: 3**
- EDUC 362 - Integrating Language Arts and Social Studies in Early Childhood **Credit Hours: 3**
- EDUC 366 - Mathematics in Early Childhood Education **Credit Hours: 3**
- EDUC 367 - Science in Early Primary Education **Credit Hours: 3**
- EDUC 370 - Phonics and the Process of Reading **Credit Hours: 3**
- EDUC 371 - Emergent through Adolescent Literacy **Credit Hours: 3**
- EDUC 383 - Language Arts Methods for Middle Childhood Educators **Credit Hours: 3**
- EDUC 385 - Math Methods for Middle Childhood Educators **Credit Hours: 3**
- EDUC 413 - Reading in the Content Areas **Credit Hours: 3**
- EDUC 414 - Reading Assessment and Intervention **Credit Hours: 3**
- EDUC 419 - Co-teaching and Collaboration in Education **Credit Hours: 2**
- EDUC 420 - Proactive Approaches to Classroom Management and Support **Credit Hours: 2**
- EDUC 432 - Student Teaching in Special Education **Credit Hours: 9**
- EDUC 434 - Instructional Services for Children with Mild/Moderate Special Needs **Credit Hours: 3**
- EDUC 461 - Student Teaching Seminar **Credit Hours: 1**
- EDUC 468 - Professional Practices in Special Education **Credit Hours: 2**
- SOCI 101 - The Sociological Perspective **Credit Hours: 3**

One of the following:



- EDUC 418 - Professional Practices for Early Childhood **Credit Hours: 2**
- EDUC 465 - Professional Practices in Middle Level Education **Credit Hours: 2**
- EDUC 466 - Professional Practices in Secondary Schools **Credit Hours: 2**

## **Sport Administration Major**

### **Major Requirements: (41 Hours)**

(35 hours)

- BUSI 221 - Organizational Management **Credit Hours: 3**
- BUSI 241 - Marketing **Credit Hours: 3**
- ECON 215 - Principles of Microeconomics **Credit Hours: 3**
- SPCOM 221 - Sports Communication **Credit Hours: 3**
- SPST 201 - Facility Management **Credit Hours: 3**
- SPST 202 - Sports Governance **Credit Hours: 3**
- SPST 302 - Sports Administration Practicum **Credit Hours: 1** Taken 2 times
- SPST 344 - Legal Issues in Sport **Credit Hours: 3**
- SPST 355 - Sports Ethics **Credit Hours: 3**
- SPST 441 - Sports Management **Credit Hours: 3**
- SPST 496 - Seminar in Sport Administration **Credit Hours: 3**

### **Electives (6 hours):**

- ACCT 201 - Financial Accounting **Credit Hours: 3**
- ACCT 202 - Managerial Accounting **Credit Hours: 3**
- BUSI 318 - Managerial Finance **Credit Hours: 3**
- BUSI 415 - Human Resource Management **Credit Hours: 3**
- POLS 321 - Public Administration **Credit Hours: 3**
- POLS 325 - Public Sector Human Resource Management **Credit Hours: 3**
- POLS 365 - International Sport and Politics **Credit Hours: 3**

## **Sport Administration, Minor**

### **Minor Requirements: (19 Hours)**

- BUSI 221 - Organizational Management **Credit Hours: 3**
- BUSI 241 - Marketing **Credit Hours: 3**
- SPST 201 - Facility Management **Credit Hours: 3**
- SPST 202 - Sports Governance **Credit Hours: 3**
- SPST 344 - Legal Issues in Sport **Credit Hours: 3**
- SPST 441 - Sports Management **Credit Hours: 3**
- SPST 402 - Sport Administration Practicum **Credit Hours: 1**

## **Sport and Fitness Science Major (MAP)**

# **The Sport & Fitness major is designed for healthcare professionals with an associate of science degree who wish to obtain a Bachelor of Science (BS) degree in Sport and Fitness Science.**

The Bachelor of Science and clinical experience will enable candidates to successfully apply/obtain advanced certifications such as Certified Strength and Conditioning Specialist (CSCS), and Certified Special Population Specialist (CSPS). This combination of credentials will prepare candidates for positions such as High School Strength and Conditioning Coach, Strength and Fitness Professional, or Strength and Conditioning Specialist in the sport and fitness industry at the community, medical, athletic and/or corporate levels.

Professionals with a sport and fitness or exercise science background, and physical therapists assistants also often choose this major to continue on for a master's in athletic training.

## **Major Requirements (30 semester hours for major)**

### **Health Core Requirements (12 Credit Hours)**

- HLSC 301 - The American Health Care System **Credit Hours: 3**
- HLSC 495 - Seminar in Health Science **Credit Hours: 3**
- HLSC 307 - Health Communication and Promotion **Credit Hours: 3**

Choose one of the following:

- HLSC 304 - Statistics for the Health Sciences **Credit Hours: 3**
- HLSC 305 - Health Informatics **Credit Hours: 3**

### **Foundational Core Requirements (9 Credit Hours)**

- EXSC 333 - Motor Learning and Performance **Credit Hours: 3**
- EXSC 336 - Principles of Strength and Conditioning **Credit Hours: 3**
- SPST 441 - Sports Management **Credit Hours: 3**

### **Sport & Fitness Electives (9 Credit Hours)**

Choose Four of the Following:

- BIOL 346 - Pathophysiology **Credit Hours: 3**
- BIOL 376 - Pathophysiology II **Credit Hours: 3**
- PSYC 430 - Psychology of Injury **Credit Hours: 3**
- HLSC 330 - The Human Body: Structure and Function **Credit Hours: 3**
- HLSC 331 - Nutrition and Health **Credit Hours: 3**
- EXSC 337 - Exercise Testing and Prescription **Credit Hours: 3**

## Customize Your Curriculum Plan

MAP majors are designed to accommodate the demands of your career and personal life. Most courses are offered multiple times per year within four 10-week terms. This allows you to:

- Adjust your course load: take only 1 or up to 4 courses each term
- Choose the pace at which you will complete your program: take courses in just one term each year, or in all 4
- Customized dual majors and or/minors: Your Health-Related Program Advisor will help you create a curriculum plan to meet your career goals

For additional information, contact Jennifer Baird, Allied Health Programs Advisor, at [jbaird@muskingum.edu](mailto:jbaird@muskingum.edu) or 740-826-8470

For a complete listing of MAP requirements, policies and procedures please refer to the Muskingum Adult Program Guidebook( pdf).

## Sports Coaching, Minor

### Minor Requirements: (22 Hours)

- EXSC 210 - First Aid and CPR **Credit Hours: 3**
- SPST 105 - Introduction to Sports Analytics **Credit Hours: 3**
- SPST 203 - Foundations of Athletic Skill **Credit Hours: 3**
- SPST 303 - Coaching Practicum **Credit Hours: 1**  
Taken at least 1 time (no more than 3) or IDIS 300 as approved by department.
- SPST 344 - Legal Issues in Sport **Credit Hours: 3**
- SPST 355 - Sports Ethics **Credit Hours: 3**
- SPST 418 - Coaching Team Sports **Credit Hours: 3**
- SPST 490 - Coaching Colloquium **Credit Hours: 1**

## Sports Communication, Major

### Requirements (38 hours)

- SPCOM 221 - Sports Communication **Credit Hours: 3**
- SPCOM 240 - Sports Media **Credit Hours: 3**
- SPCOM 321 - Social Media and Technology in Sports **Credit Hours: 3**
- SPCOM 331 - The Art of Sports Broadcasting **Credit Hours: 3**
- SPCOM 341 - Sports Planning and Promotion **Credit Hours: 3**
- SPCOM 401 - Sports Communication Practicum **Credit Hours: 1** (Take 2 times)
- SPCOM 495 - Seminar in Sports Communication **Credit Hours: 3**
- SPST 355 - Sports Ethics **Credit Hours: 3**
- COMM 330 - Communication, Sports, and America **Credit Hours: 3**
- MEDIA 150 - Introduction to Convergent Media **Credit Hours: 3**
- MEDIA 240 - Broadcast Writing and Reporting **Credit Hours: 3**

### Electives (Take 6 credits)

- MEDIA 225 - Introduction to Video Editing **Credit Hours: 3**
- MEDIA 300 - Visual Communication **Credit Hours: 3**
- MEDIA 308 - Single Camera Video Production and Editing **Credit Hours: 3**
- JOURN 219 - Photojournalism **Credit Hours: 3**
- COMM 335 - Small Group Communication **Credit Hours: 3**
- COMM 355 - Organizational Communication **Credit Hours: 3**
- COMM 246 - Interpersonal Communication **Credit Hours: 3**
- SPCOM 390 - Topics in Sports Communication **Credit Hours: 3**

## **Sports Communication, Minor**

### **Requirements**

- COMM 330 - Communication, Sports, and America **Credit Hours: 3**
- SPCOM 240 - Sports Media **Credit Hours: 3**
- SPCOM 321 - Social Media and Technology in Sports **Credit Hours: 3**
- SPCOM 401 - Sports Communication Practicum **Credit Hours: 1**
- MEDIA 150 - Introduction to Convergent Media **Credit Hours: 3**

## **Teaching English as a Foreign Language, Minor**

### **Minor Requirements: (19 Hours)**

FREN 211/GERM 211/SPAN 211 or completion of another college course, at or above the intermediate level, taught in a non-native language

- ENGL 361 - Language: Structure and Usage **Credit Hours: 3**
- WRLD 200 - Cross-Cultural Communication **Credit Hours: 3**
- WRLD 250 - Introduction to Second Language Acquisition **Credit Hours: 3**
- WRLD 300 - TEFL Methods and Approaches **Credit Hours: 3**
- WRLD 375 - English for TEFL **Credit Hours: 3**

## **Theatre Major**

### **Major Requirements: (34 Hours)**

- THEA 245 - Technical Production **Credit Hours: 3**
- THEA 265 - Design I: Explorations in Theatre Design **Credit Hours: 3**
- THEA 275 - Acting I **Credit Hours: 3**
- THEA 351 - World Theatre History **Credit Hours: 3**
- THEA 352 - Dramatic Literature **Credit Hours: 3**
- THEA 396 - Theatre Research: Methods and Theory **Credit Hours: 3**
- THEA 495 - Theatre Senior Seminar **Credit Hours: 3**

**Electives:**

remaining 13 credit hours may include with department approval a maximum of 6 hours in Communication excluding COMM 200

## **Theatre, Minor**

### **Minor Requirements: (15 Hours)**

- THEA 245 - Technical Production **Credit Hours: 3**
- THEA 275 - Acting I **Credit Hours: 3**

### **Electives:**

- 9 credit hours of Theatre Electives, with at least one 3 credit classes, and at least 3 upper level credits. Projects in Theatre (THEA 103, THEA 203, THEA 303, THEA 403) can only count toward two of these credit hours.

## **Undergraduate Academic Policies and Procedures**

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### **Attendance Policy**

The academic program of Muskingum University operates on the assumption that learning is advanced by regular attendance at class and laboratory.

It is the responsibility of the student to arrange to make up, at the convenience of the instructor, class assignments or previously scheduled quizzes and/or exams missed due to absence. Timely (at least one week in advance) notice to professors when absence will be unavoidable is expected. No instructor may deny a student the opportunity to make up coursework missed because of bona fide medical, personal or family emergency, or, when timely notice is received, because of previously scheduled participation in institutionally sanctioned activities.

Individual faculty members determine their own class attendance policy in accordance with the preceding paragraph. At the beginning of each semester, the faculty member is responsible for informing students of his/her attendance policy or expectations and of the consequences or penalties for excessive non-sanctioned absences. The faculty member must define "excessive."

### **Commencement Policy**

Seniors planning to graduate must apply no later than 8 weeks prior to the date of Commencement. Students who fail to apply by this deadline may incur additional fees and/or may not be permitted to participate in commencement exercises. The Application to Graduate is found on Muskie Link.

Students must have all coursework fully planned by the time of commencement. If a student has additional coursework to complete (up to 12 hours) after commencement, they may petition the Provost or the VPGCS, as appropriate, to

participate in commencement ceremonies. Petitions must be submitted to the Provost or VPGCS, as appropriate, at least 4 weeks prior to commencement and will be considered on a case-by-case basis.

\*Adult undergraduate degree completers should refer to the MAP Guidebook.

## Course Repeat Policy

A student may repeat a course once if the original grade is a C- or lower and provided it is repeated at the next offering, or provided that no more than one intervening course has been taken in the discipline offering the course. A course may be repeated only one time. When a course is repeated, both grades remain on the record but only the most recent grade is used in computing the grade point average unless the most recent grade is I, WIP, or W. While the grade for a repeated course erases the GPA calculation that may have been the basis for decisions about academic standing such as probation, dismissal, or Dean's List, those decisions are not affected by the recalculation. Students cannot receive credit twice for any course repeated to replace a grade.

## Course Withdrawals

Students may withdraw from full semester courses through the 60th day of the semester, and from partial semester offerings until the course is three-fourths completed. Withdrawals are not permitted after the specified time.

The process for course withdrawal is initiated in the Registrar's office.

\*Adult undergraduate degree completers should refer to the MAP Guidebook.

## Auditing Courses

Auditing is subject to space availability. For full-time traditional students, there is no charge to audit, but permission must be received from the Registrar, the faculty advisor, and the course instructor. The decision to audit a class must be on file with the Registrar by the end of the add/drop period and cannot be changed. Non-attendance results in a grade of W. Those over 62 years of age may audit a course under the same regulations. Part-time students are charged a fee to audit.

\*Adult undergraduate degree completers should refer to the MAP Guidebook.

\*\*Graduate students should refer to the Graduate Catalog.

## Catalog of Entry

Undergraduate students who complete graduation requirements in four years are under the catalog in effect at the time of first enrollment. Students may elect to meet the graduation requirements of a later catalog, subject to guidelines of professionally-accredited disciplines.

Students who do not meet graduation requirements within seven calendar years of first enrollment must meet the requirements of the catalog in effect at the time of graduation or of a catalog published no more than four years earlier than the time of graduation.

## Full Time Status

The minimum semester load for a full-time student is 12 semester hours; the maximum load is 20 hours. Students with less than a 3.0 cumulative GPA must petition the Provost to register for more than 17 hours no later than the second week of classes. Full-time status is determined at the end of the add/drop period, after which time course withdrawals have no effect on full-time status with regard to charges for tuition and fees. Full-time status is required, however, for participation in a sport. Other areas of extra-curricular and co-curricular activities may also be impacted.

\*Adult undergraduate degree completers should refer to the MAP Guidebook.

## Grade Point Average

Your semester grade point average (GPA) is calculated by dividing the total amount of grade points earned (grade equivalent quality points times credit hours for the course) that semester by the total amount of graded credit hours attempted that semester. Your grade point average may range from 0.0 to a 4.0. P/NP (Pass/No Pass) courses are not factored in the GPA. The following marks do not receive grade points and do not have an effect on the GPA: I, WIP, S, U, W, L, and NR.

To calculate your cumulative GPA, total the graded credit hours and then the grade points from all semesters. Divide the total grade points by the total credit hours.

Students who have been readmitted to Muskingum after seven calendar years from their previous enrollment may choose not to carry the cumulative GPA from the prior enrollment.

## Grading Policy

Grades are assigned on a scale ranging from A, excellent, to F, failing. The grades' equivalent quality points are: A, 4.00; A-, 3.67; B+, 3.33; B, 3.00; B-, 2.67; C+, 2.33; C, 2.00; C-, 1.67; D+, 1.33; D, 1.00; D-, 0.67; and F, 0.00. Other grades are WIP, for work in progress; I, incomplete; S, satisfactory (C- or above); U, unsatisfactory (D+ or below); W, withdrawn; L, audit; and NR, not reported.

The grade of work in progress (WIP) is given in a course where work has been recognized as requiring research, study or participation beyond the normal limits of a semester. It may be used for departmental senior studies (400-level courses), for courses involving outside observation hours or for students in the PLUS learning disabilities program.

An Incomplete (I) indicates that unusual personal or technical circumstances, including illness and family emergencies, have prevented the student from completing course requirements.

Except in extraordinary circumstances failure to complete the required work by the last day of the immediately subsequent semester reduces the WIP or I to an F. No student is awarded a degree with a record which includes a WIP or an I.

\*Graduate students should refer to the Graduate Catalog.

## Student Responsibility

The student is responsible for meeting all appropriate course, major, and graduation requirements as stated in this catalog. Although a student and an advisor are partners, the student needs to be knowledgeable about academic requirements and take the initiative in planning his or her own program, in setting goals, and in monitoring progress toward completing such goals.

# Course Level Definitions

The University Curriculum Committee and the Graduate Program Committee have developed these guidelines to assist faculty members in determining the appropriate level for courses. Bloom's taxonomy was used as a reference for structuring the guidelines, with lower-level courses introducing foundational knowledge and comprehension and upper-level courses stressing greater levels of application, analysis, synthesis, and evaluation. Departments should select course level based on the best fit with one or more of the attributes listed at the selected level.

## 100-level

- Introduction to the field or discipline
- Basic concepts covered
- Terminology of a discipline
- Foundational or survey courses
- Operates largely at the "knowledge" and "comprehension" levels.

## 200-level

- Intermediate level
- Surveys may be devoted to particular areas or fields within the discipline
- Greater depth in the field of study
- Courses solidify abilities at the knowledge and comprehension levels.

## 300-level

- Taken by majors or minors and upper division students
- Content is based on demonstrated success in lower-level courses
- Greater depth in study of sub-fields
- Application of knowledge to new problems or situations

## 400-level

- Taken by upper-level students and senior capstone sequences
- Integration and synthesis of prior learning
- Requires independent level of functioning
- May have a research-focus
- May be seminar style with emphasis on discussion and analysis
- Skills applied through internship and clinical courses



#### 500-level ( Graduate)

- Introduction to professions
- Integrate foundational concepts into higher level analysis and application
- May be taken by undergraduates in accelerated graduate programs

#### 600-level (Graduate)

- Professional competencies
- High levels of analysis, synthesis, evaluation, and ethical practice

#### 700-level (Graduate)

- Initial knowledge-base and preparation for becoming leaders and experts in their respective fields
- Use and application of the upper levels of Bloom's Taxonomy
- Application of knowledge, skills, and dispositions in field-related professional experiences

#### 800-level (Graduate)

- Advanced knowledge-base and preparation for serving as leaders and experts in their respective fields
- Application of high-level conceptual and technical skills for the design and implementation of research and the creation of new knowledge

#### 900-level (Graduate)

- Discipline specific competencies required for the completion of the doctoral degree
- Demonstration of one's knowledge base in the respective area of concentration and the skills needed for writing the dissertation

## **General Education Requirements**

### **General Education Requirements**

#### 2021-2022 General Education Requirements

##### General Education in the Liberal Arts and Sciences Curriculum

The General Education (referred to as gen ed) Requirements at Muskingum University ensure the breadth inherent in a liberal arts education. A liberal arts education requires that students understand the foundations of knowledge and inquiry about nature, culture, self, and society; that students master core skills of perception, analysis, and expression; that students recognize the importance of historical and cultural contexts; and that students explore connections among formal learning, citizenship, and service to our communities. Students will take most of their gen ed requirements in their freshman and sophomore years, along with some courses in their major or other elective courses.

### **Core Requirements**

Forming the core of the General Education Program are courses in communication in writing and speech:

## 1. Communication in Writing

This category is designed to develop the ability to communicate clearly and effectively in writing. Objective: Students will demonstrate effective communication through writing.

- ENGL 121 - Composition **Credit Hours: 3** (Exempted with SAT W-620/ACT E-28)  
Two writing unit courses (3 hours each), one at the 300- or 400-level. A "writing unit" uses writing as a substantial mode of learning and is identified in the Undergraduate Course Schedule listings on MuskieLink and in the MAP Schedule by the symbol # preceding the course title.

## 2. Communication in Speech

This category is designed to develop the ability to communicate clearly and effectively in speech. Objective: Students will demonstrate effective communication through speech.

- COMM 200 - Fundamentals of Speech Communication **Credit Hours: 3**

## Distribution Requirements

Students must successfully complete courses from at least 10 different prefixes (e.g. ART, PE, MATH) from the following Gen Ed categories.

## 3. Communication in a Global and Digital Age

This category is designed to develop communication and information-gathering skills through emphasis on a non-native language or other means of communicating in a technology-driven, global society. Minimum of 3 hours or participation in a Muskingum University-approved international program. Objective: Students will demonstrate effective communication skills in a non-native language or identify and use digital resources to communicate.

- CPSC 100 - Introduction to Computer Science **Credit Hours: 3**
- EDUC 335 - Educational Technology **Credit Hours: 3**
- FREN 111 - Beginning French I **Credit Hours: 3**
- FREN 112 - Beginning French II **Credit Hours: 4**
- GERM 111 - Beginning German I **Credit Hours: 3**
- GERM 112 - Beginning German II **Credit Hours: 4**
- MEDIA 210 - Media Literacy **Credit Hours: 3**
- MEDIA 300 - Visual Communication **Credit Hours: 3**
- LIBR 220 - Beyond Google: Research Skills and Resources **Credit Hours: 3**
- SPAN 111 - Beginning Spanish I **Credit Hours: 3**
- SPAN 112 - Beginning Spanish II **Credit Hours: 4**

## 4. Religious Understanding

This category is designed to develop an understanding of religious ways of life. Minimum of 3 hours. Objective: Students will explain how religious belief systems interrelate with human life.

- ENGL 245 - Bible and Literature **Credit Hours: 3**
- RELG 150 - Biblical Theology **Credit Hours: 3**
- RELG 153 - World Religions **Credit Hours: 3**
- RELG 251 - The World of Islam **Credit Hours: 3**

- RELG 252 - The Judeo-Christian Tradition **Credit Hours: 3**
- RELG 260 - Introduction to Christian Theology **Credit Hours: 3**
- RELG 261 - Women and the Bible **Credit Hours: 3**
- RELG 290 - Topics in Religious Understanding **Credit Hours: 3**
- RELG 301 - Old Testament Literature **Credit Hours: 3**
- RELG 302 - History and the Bible **Credit Hours: 3**
- RELG 303 - New Testament Literature **Credit Hours: 3**
- RELG 304 - Jesus in the New Testament **Credit Hours: 3**
- RELG 342 - Religions and Philosophies of Asia **Credit Hours: 3** (cf: PHIL 342)
- RELG 356 - Death and Dying in the World Religions **Credit Hours: 3**

## 5. Moral Inquiry

This category is designed to develop an understanding of the means by which individuals and communities evaluate and respond to ethical problems, both personal and social. Minimum of 3 hours. Objective: Students will formulate and justify a position on an ethical problem.

- ENGL 317 - Journalistic Ethics **Credit Hours: 3**
- ENGL 350 - Morality and Literature **Credit Hours: 3**
- PHIL 203 - Introduction to Ethics **Credit Hours: 3**
- PHIL 305 - Biomedical Ethics **Credit Hours: 3**
- PHIL 331 - Environmental Ethics **Credit Hours: 3**
- PHIL 343 - Social and Political Philosophy **Credit Hours: 3** (cf. POLS 343, SOCI 335)
- PHIL 361 - Topics in Moral Philosophy **Credit Hours: 3**
- PHIL 362 - Ethics and Technology Issues **Credit Hours: 3**
- POLS 342 - Ethical Issues in Politics **Credit Hours: 3**
- POLS 356 - War, Peace, and Security **Credit Hours: 3**
- RELG 253 - Ethics, Reason, and the Bible **Credit Hours: 3**
- RELG 393 - Global Issues and Values **Credit Hours: 3**
- SOCI 369 - Peacemaking **Credit Hours: 3**
- SPST 355 - Sports Ethics **Credit Hours: 3**

## 6. Quantitative Reasoning (Exempted with SAT M-680/ACT M-28)

This category is designed to develop competency in understanding and using numerical concepts and methods. Minimum of 3 hours. Objective: Students will demonstrate an understanding of numerical concepts and use appropriate methods to solve problems.

- BUSI 325 - Statistics **Credit Hours: 3**
- EDUC 341 - Assessment in Education **Credit Hours: 3**
- HLSC 304 - Statistics for the Health Sciences **Credit Hours: 3**
- MATH 140 - Practical Statistics **Credit Hours: 3**
- MATH 150 - Quantitative Reasoning for the Liberal Arts **Credit Hours: 3**
- MATH 170 - Applied College Algebra **Credit Hours: 3**
- MATH 180 - Precalculus **Credit Hours: 4**
- MATH 190 - Calculus I **Credit Hours: 4**
- PSYC 231 - Applied Statistics **Credit Hours: 3**
- PSYC 232 - Behavioral Statistics **Credit Hours: 3**
- SPST 105 - Introduction to Sports Analytics **Credit Hours: 3**

## 7. Scientific Understanding

This category is designed to develop an understanding of the natural world, the scientific method, and the forces and elements inherent in the natural order. Minimum of 7 hours. (Must include one lab science course and courses from two course prefixes) Objective: Students will describe scientific principles and apply methods of scientific inquiry.

### LAB Courses

- BIOL 106 - Contemporary Biologic Issues **Credit Hours: 4**
- BIOL 111 - Organismal Biology I **Credit Hours: 3** And
- BIOL 107 - Biology Laboratory I **Credit Hours: 1**
- BIOL 112 - Organismal Biology II **Credit Hours: 3** And
- BIOL 108 - Biology Laboratory II **Credit Hours: 1**
- BIOL 121 - Anatomy & Physiology I **Credit Hours: 4**
- BIOL 122 - Anatomy & Physiology II **Credit Hours: 4**
- CHEM 105 - Issues in the Chemical Sciences **Credit Hours: 4**
- CHEM 108 - General, Organic, and Biological Chemistry **Credit Hours: 4**
- CHEM 111 - General Chemistry I **Credit Hours: 4**
- GEOL 101 - Introduction to Geology **Credit Hours: 4**
- GEOL 110 - Environmental Geology **Credit Hours: 4**
- PHEN 101 - Conceptual Physics **Credit Hours: 4**
- PHEN 115 - Introductory Physics I **Credit Hours: 4**
- PHEN 121 - Classical Physics I **Credit Hours: 4**
- PHEN 150 - Introduction to Astronomy **Credit Hours: 4**
- PSYC 351 - Advanced Experimental Psychology **Credit Hours: 4**

### Non-LAB Courses

- BIOL 100 - Science and Society **Credit Hours: 3**
- CHEM 101 - Joy of Chemistry **Credit Hours: 3**
- EDUC 367 - Science in Early Primary Education **Credit Hours: 3**
- EXSC 336 - Principles of Strength and Conditioning **Credit Hours: 3**
- GEOG 120 - Physical Geography **Credit Hours: 3**
- GEOG 220 - Earth's Climate System **Credit Hours: 3**
- GEOL 105 - Geohazards **Credit Hours: 3**
- PHEN 100 - Physics for Video Games **Credit Hours: 3**

## 8. Health

This category is designed to develop an understanding of important health issues and to foster choices for students' health throughout life. Minimum of 2 hours. Objective: Students will identify and evaluate biological, psychosocial, and/or behavioral factors that influence health.

- EDUC 215 - Educational Psychology **Credit Hours: 3**
- HLSC 151 - Global Health **Credit Hours: 3**

- HLSC 315 - Public Health and Epidemiology **Credit Hours: 3**
- HLSC 345 - Personal Health **Credit Hours: 3**
- NUTR 131 - Introduction to Nutrition **Credit Hours: 3**
- NUTR 231 - Nutrition Across the Lifespan **Credit Hours: 3**
- PE 101 - Concepts of Wellness **Credit Hours: 1**
- PE 102-140 - Physical Education Service Courses **Credit Hours: 1**
- PSYC 101 - Introduction to Psychology **Credit Hours: 3**

## 9. Artistic Understanding and Expression

This category is designed to develop an understanding of the role of the arts in the human endeavor. Objective: Students will perform, create, or interpret artistic works. One course from the following:

- ART 112 - Drawing I **Credit Hours: 3**
- ART 120 - Three-Dimensional Design **Credit Hours: 3**
- ART 121 - Ceramics I **Credit Hours: 3**
- ART 131 - Sculpture I **Credit Hours: 3**
- ART 141 - Photography **Credit Hours: 3**
- ART 151 - Introduction to Art **Credit Hours: 3**
- ART 170 - Graphic Design I **Credit Hours: 3**
- ART 350 - Art History I **Credit Hours: 3**
- ART 351 - Art History II **Credit Hours: 3**
- ART 352 - Art History III **Credit Hours: 3**
- COMM 260 - Oral Interpretation of Literature **Credit Hours: 3**
- ENGL 260 - Introduction to Creative Writing **Credit Hours: 3**
- MEDIA 215 - Introduction to Cinematography **Credit Hours: 3**
- MEDIA 350 - Study of Global Cinema **Credit Hours: 3**
- MUSC 331 - Brass Instruments **Credit Hours: .5-1**
- MUSC 333 - Woodwind Instruments **Credit Hours: .5-1**
- MUSC 335 - String Instruments **Credit Hours: .5-1**
- MUSC 341 - Voice **Credit Hours: .5-1**
- MUSC 343 - Keyboard **Credit Hours: 1**
- MUSC 360 - Southeastern Ohio Symphony Orchestra (major ensemble) **Credit Hours: 1**
- MUSC 361 - Wind Ensemble (major ensemble) **Credit Hours: 1**
- MUSC 362 - Concert Choir (major ensemble) **Credit Hours: 1**
- THEA 151 - Introduction to Theatre **Credit Hours: 3**
- THEA 265 - Design I: Explorations in Theatre Design **Credit Hours: 3**
- THEA 275 - Acting I **Credit Hours: 3**
- THEA 350 - A History of Film **Credit Hours: 3**

## 10. Cultural Diversity

This category is designed to develop an understanding of diversity (gender, race, ethnicity, sexual orientation, age, etc.) in the contemporary world. Minimum of 3 hours. Objective: Students will recognize and examine the role of diversity in society.

- COMM 246 - Interpersonal Communication **Credit Hours: 3**
- COMM 340 - Gender Communication **Credit Hours: 3**
- EDUC 112 - Educational Implications of Diversity **Credit Hours: 3**

- ENGL 235 - African-American Literature **Credit Hours: 3**
- ENGL 387 - Topics in Literature and Gender **Credit Hours: 3**
- FREN 211 - Intermediate French I **Credit Hours: 4**
- FREN 212 - Intermediate French II **Credit Hours: 4**
- GERM 211 - Intermediate German I **Credit Hours: 4**
- GERM 212 - Intermediate German II **Credit Hours: 4**
- HLSC 312 - Social Gerontology **Credit Hours: 3**
- HIST 220 - US Women's History **Credit Hours: 3**
- HIST 271 - Race, Ethnicity, and Identity in the Americas **Credit Hours: 3**
- HIST 322 - Gender and History **Credit Hours: 3**
- HIST 352 - Latin America Film and History **Credit Hours: 4**
- HIST 356 - History of Modern Africa **Credit Hours: 3**
- PHIL 355 - Comparative Philosophy **Credit Hours: 3**
- POLS 131 - Introduction to Comparative Politics **Credit Hours: 3**
- RELG 353 - Religion and Gender **Credit Hours: 3**
- SOCI 101 - The Sociological Perspective **Credit Hours: 3**
- SPAN 211 - Intermediate Spanish I **Credit Hours: 4**
- SPAN 212 - Intermediate Spanish II **Credit Hours: 4**
- THEA 352 - Dramatic Literature **Credit Hours: 3**
- WRLD 200 - Cross-Cultural Communication **Credit Hours: 3**

## 11. International Perspectives

This category is designed to develop an understanding of global societies, and a familiarity with patterns of social and political behavior in a comparative context, in order to lay the basis for responsible world citizenship. Minimum of 3 hours. Objective: Students will recognize and compare the social, cultural, and/or political patterns of global communities.

- ENGL 124 - World Literature **Credit Hours: 3**
- GEOG 111 - World Regional Geography **Credit Hours: 3**
- HIST 110 - Pre-Modern World History **Credit Hours: 3**
- HIST 111 - The Emergence of the Modern World I **Credit Hours: 3**
- HIST 112 - The Emergence of the Modern World II **Credit Hours: 3**
- HIST 260 - The Cold War in the Americas **Credit Hours: 3**
- HIST 345 - The Second World War **Credit Hours: 3**
- HIST 346 - Southeast Asian History **Credit Hours: 3**
- HIST 348 - The Western Impact on Modern Japan **Credit Hours: 3**
- HIST 351 - Modern Latin America **Credit Hours: 3**
- MUSC 310 - Excursions in World Music **Credit Hours: 3**
- NURS 430 - Perspectives in Global Health and Nursing **Credit Hours: 3**
- POLS 151 - Introduction to International Relations **Credit Hours: 3**
- SOCI 350 - Social Change in an International Perspective **Credit Hours: 3**

## 12. Western Traditions

This category is designed to develop an understanding of social, political, cultural and behavioral dimensions of human existence in Western European traditions. Minimum of 3 hours. Objective: Students will describe and interpret the social, cultural, political, and/or behavioral dimensions of Western European traditions.

- ENGL 123 - Introduction to Literature **Credit Hours: 3**

- ENGL 231 - British Literature to 1800 **Credit Hours: 3**
- ENGL 232 - British Literature after 1800 **Credit Hours: 3**
- ENGL 394 - Classical Mythology **Credit Hours: 3**
- FREN 123 - Explorations of Francophone Literature in English Translation **Credit Hours: 3**
- GERM 123 - Explorations in German Literature in English Translation **Credit Hours: 3**
- HIST 310 - Ancient History **Credit Hours: 3**
- HIST 318 - Nineteenth Century Europe **Credit Hours: 3**
- HIST 320 - Twentieth Century Europe **Credit Hours: 3**
- IDIS 275 - Arts and Humanities in Western Culture **Credit Hours: 3**
- MUSC 121 - Introduction to Music **Credit Hours: 3**
- PHIL 101 - Introduction to Western Philosophy **Credit Hours: 3**
- POLS 121 - Introduction to Public Administration and Policy **Credit Hours: 3**
- POLS 331 - Politics of Western Europe **Credit Hours: 3**
- SPAN 123 - Hispanic Literature and Film **Credit Hours: 3**

### 13. The U.S. Experience

This category is designed to develop an understanding of the United States, its institutions, customs, culture, diversity of people and resources, and challenges facing the nation in the contemporary setting. Minimum of 3 hours. Objective: Students will describe and evaluate how traditions, practices, or institutions address or inform the society and culture of the United States.

- COMM 320 - Introduction to Popular Culture **Credit Hours: 3**
- ENGL 233 - American Literature to 1865 **Credit Hours: 3**
- ENGL 234 - American Literature after 1865 **Credit Hours: 3**
- ENGL 341 - Nineteenth Century American Fiction **Credit Hours: 3**
- ENGL 343 - Modern and Contemporary American Fiction **Credit Hours: 3**
- ENGL 351 - Modern and Contemporary American Poetry **Credit Hours: 3**
- HLSC 301 - The American Health Care System **Credit Hours: 3**
- HIST 105 - United States History to 1877 **Credit Hours: 3**
- HIST 106 - United States History since 1877 **Credit Hours: 3**
- HIST 230 - The American Civil War **Credit Hours: 3**
- HIST 374 - Ohio History **Credit Hours: 3**
- HIST 380 - The History of the American Dream **Credit Hours: 3**
- HIST 385 - American Environmental History **Credit Hours: 3**
- IDIS 240 - Introduction to American Studies **Credit Hours: 3**
- MUSC 110 - History of Popular Music **Credit Hours: 3**
- NURS 460 - Community Health Nursing **Credit Hours: 4**
- POLS 111 - American Political Systems **Credit Hours: 3**
- SOCI 216 - Social Problems in Contemporary America **Credit Hours: 3**
- SOCI 301 - American Society: Class and Culture **Credit Hours: 3**
- SOCI 320 - Racial and Cultural Minorities **Credit Hours: 3**

### Sequence for Meeting the General Education Requirements (Gen Ed)

During their first year, traditional students should take ENGL 121 - Composition and COMM 200 - Fundamentals of Speech Communication, which comprise the core. Some first year students may want to take a science course. Typically first year students concentrate on the gen ed requirements and take no more than one or two classes in their

prospective major. After taking Composition, students must complete two writing unit courses, usually one at the 100- or 200-level and one at the 300- or 400-level. At least one of the two must be at the 300- or 400-level.

A writing unit class is one that uses writing as a significant part of the learning process, not courses that teach writing per se. Therefore, writing unit classes are not those with the word "writing" in the title. They can be identified by a # sign before the name of the course in the online schedule. For example, #Emergence of the Modern World.

## Degree Requirements

Three undergraduate degrees are offered. Majors in nursing receive the Bachelor of Science in Nursing (BSN). Qualified adult undergraduate degree completers earn the Bachelor of Science (BS) degree in six health-related majors (Community Health and Wellness, Healthcare Management, Health Science, Medical Laboratory Studies, Occupational Science, and Sport and Fitness Science), in three business-related majors (Business Management, Marketing, and Human Resource Management), and in the information systems major offered through the Muskingum Adult Program (MAP). Adult degree completion students should refer to the MAP Guidebook to learn more about the admission requirements for these programs. Traditional undergraduate students majoring in Biology, Chemistry, Computer Science, Conservation Science, Earth Science, Engineering Science, Environmental Science, Geology\*, Mathematics, Molecular Biology, Neuroscience, Petroleum Geology, Physics, Physics Education, or Psychology will also receive the Bachelor of Science degree. All other majors are awarded the Bachelor of Arts (BA).

\*There is a track available for students majoring in Geology to earn a BA degree. All undergraduate degrees require fulfillment of the following:

1. A minimum of 124 credit hours for the Bachelor of Arts and Bachelor of Science Degree; 127 for the Bachelor of Science in Nursing (a minimum of 124 for the RN to BSN). A maximum of 48 credit hours in any one discipline may be included in this total. In the case of courses of study leading to teacher licensure, the ACS-certified chemistry major, the Athletic Training major, the Engineering Science major, and the music major, the student may apply up to the minimum credit hours required for the major toward the 124 for graduation. A maximum of three physical education activities courses, three language tables, and ten music ensembles may apply within the 124 hours.
2. A minimum cumulative grade point average (GPA) of 2.0 for all work taken at Muskingum University; a minimum GPA of 2.0 for all courses in the major(s) and, where the option is taken, a minimum GPA of 2.0 for the minor(s).
3. A minimum of 40 credit hours earned in 300- and 400-level courses.
4. Satisfactory completion of at least one departmental or interdisciplinary major. All work within the specified discipline is counted as part of the major or minor. In the case of students pursuing multiple majors or minors in the same department, the GPA for each is calculated separately; an overall GPA of 2.0 in the academic discipline must be maintained. (Students pursuing multiple majors may write separate senior seminars, one in each of the disciplines involved, or with approval of each department chair, write one interdisciplinary seminar, credit for which is given in the department of their choice. Although the interdisciplinary seminar counts toward the credit hour requirements of only one major, the project may fulfill the senior studies requirement of all departments involved.)
5. At least 12 credit hours of the major completed in the junior and senior years at Muskingum.
6. The last 31 credit semester hours toward graduation must be earned as a degree-seeking student at Muskingum University or in approved off-campus study.
7. Transfer students must successfully complete a minimum of 32 credit hours at Muskingum University (includes approved off-campus study programs).

Note: Muskingum adheres to the Ohio Board of Regents Transfer and Articulation Policy. Requirements for some programs may require a higher grade for transfer. For further information, transfer students need to consult the Transfer Admission information in the Admission section of this catalog.



8. Satisfactory completion of the General Education Requirements. All transfer students, including adult degree completers, should consult the Transfer Admission information in the Admission section of this catalog for more information about the transfer module.

## **Student Status and Progress**

### **Academic Credit and Class Standing**

Academic credit is expressed in terms of semester hours. The number of credit hours completed toward graduation determines a student's classification. The minimum number for each classification is as follows: sophomore-28, junior-60, and senior-92.

### **Academic Dishonesty, and Plagiarism**

Plagiarism, cheating, and other forms of academic dishonesty are serious offenses at Muskingum University, and the instructors have the prerogative of invoking the severest penalty for an initial offense. Each department is responsible for developing its definition of plagiarism, but in general, plagiarism is the verbal, written, graphic, or three-dimensional presentation of borrowed material without citing its source. Students must cite all quotations, paraphrases, borrowed ideas, models, information, or organization of material. Students who are uncertain about the need for citation should consult the instructor for whom the work is being prepared. For a first offense, the minimum penalty for plagiarism and/or cheating is a failing grade on the assignment, paper, or examination; the maximum penalty is a failing grade in the course. In either case, the instructor should submit a written report of the offense to either the Office of the Provost or the Office of the Vice President for Graduate and Continuing Studies as appropriate. The student guilty a second time may be suspended or expelled from the University. Plagiarized work is filed in the office of the Provost or the Office of the Vice President for Graduate and Continuing Studies as appropriate. A grade given for academic dishonesty shall supersede any withdrawal. See additional information under "Order of Appeal."

\*Adult undergraduate degree completers should refer to the MAP Guidebook.

### **Academic Honors**

At the end of each semester, the University publishes an honor roll, consisting of three different levels of recognition; President's List, Dean's List, and Academic Merit.

- The President's List contains the names of undergraduate degree-seeking students who earned a cumulative GPA of 3.90 or above on a minimum load of 12 completed semester hours of A-F graded coursework.
- The Dean's List contains the names of undergraduate degree-seeking students who earned a term GPA of 3.60 or above on a minimum load of 12 completed semester hours of A-F graded coursework.
- The Academic Merit list contains the names of undergraduate degree-seeking students who started the semester as a part time student (minimum load of 6 completed hours) and earned a term GPA of 3.60 or above on A-F graded coursework.

Students are awarded the highest recognition level for which they are eligible in a given semester. The recognition level is marked on the student's transcript for the term in which the recognition occurs.

Each spring, traditional degree-seeking students who have distinguished themselves academically are honored at the Celebration of Excellence program.

Three classes of honors are conferred at graduation: cum laude, to those with cumulative minimum grade point averages of 3.4; magna cum laude, minimum 3.6; and summa cum laude, minimum 3.8. All post-secondary work must meet these standards, with the exception of approved off-campus study as a Muskingum student (such as Washington Semester and study abroad). A Latin Honors GPA cannot be higher than the GPA earned at Muskingum. With the exception of approved off-campus study as a Muskingum student, grades earned elsewhere will lower but not raise the Latin Honors GPA, even if the courses for which the grades were earned were not applied by transfer to the Muskingum record. To be eligible for honors designation, students must have completed all degree requirements. Students completing second baccalaureate degrees are also governed by this policy.

The student with the highest cumulative GPA who qualifies for summa cum laude recognition will be designated valedictorian. The student with the second highest GPA who qualifies for summa cum laude recognition will be designated salutatorian.

## Academic Standards Policy

Credit Hours Attempted	Academic Warning	Academic Probation	Eligible for Academic Suspension
1st semester 1st year	1.5-1.999 cum GPA	.7-1.4999 cum GPA	< 0.7 cum GPA
2nd semester or 13-27	1.8 -1.999 cum GPA OR term GPA < 2.0	1.2-1.7999 cum GPA or two consecutive terms on academic warning	< 1.2 cum GPA
28-59	1.9-1.999 cum GPA OR term GPA < 2.0	1.5-1.899 cum GPA OR two consecutive terms on academic warning	< 1.5 cum GPA
60+	Term GPA < 2.0	1.8-1.999 cum GPA OR two consecutive terms on academic writing	< 1.8 cum GPA

### Academic Warning

Students who meet the criteria for Academic Warning are on notice that academic performance must improve to ensure successful progress toward graduation. Students are placed on Academic Warning for earning a term GPA below 2.0, even if the cumulative GPA remains above this threshold. Students on Academic Warning are expected to take advantage of campus support resources to improve academic performance.

### Academic Probation

Students who meet the criteria for Academic Probation are not progressing toward graduation due to failure to meet academic expectations. Students on Academic Probation are required, as a condition of their continued enrollment, to meet with an academic coach to create a Success Plan detailing their personalized plan to improve academic performance. Academic Probation is noted on the transcript.

### Academic Suspension

Academic Suspension is a separation from the university for one semester as a result of academic performance significantly below expectations for progress towards graduation. Academic Suspension may be enforced or deferred at the discretion of the Provost and the Academic Standards Committee following consideration of student response to

interventions. Students placed on Academic Suspension may appeal this decision. Suspended students may apply for reenrollment following completion of remediation activities during the period of suspension.

### **Academic Dismissal**

Academic Dismissal is a separation from the university for a minimum of two semesters as a result of academic performance that is significantly below expectations for progress toward graduation. Academic Dismissal is reserved for students who have previously served an Academic Suspension and, upon return, are still not making satisfactory progress toward graduation despite continued intervention. Students placed on Academic Dismissal may appeal this decision. Dismissed students may reapply for admission after the minimum period of separation and upon demonstration of academic and/or professional success during the separation period.

## **Leave of Absence/Withdrawal from the University**

### **Leave of Absence**

A leave of absence may be granted to a student who wishes/needs to interrupt, but not permanently discontinue, enrollment at Muskingum University. A student may take a leave of absence for up to two consecutive semesters. Students must complete the Leave of Absence/Withdrawal Form with a representative of the Provost Office. The leave of absence begins on the day the form is completed. Students who begin a leave of absence after the start of an academic term are entitled to a refund of charges according to the Withdraw Refund Policy. All suspensions and dismissals take precedence over any leave of absence or withdrawal.

If a student applies for a leave of absence after the add/drop period but prior to the last regular day of classes, a grade of "W" will be recorded for each course in which the student was registered (with the exception of partial semester courses in which a final letter grade was already entered). A student may be granted an Incomplete (I) when they have completed the majority of the course but, for reasons beyond their control, have to take a leave of absence. The Incomplete must be completed by the end of the subsequent semester of enrollment. Official transcripts will not be released until all outstanding financial obligations have been met and final grades have been entered. A student who applies for a leave of absence during the final examination period will receive final letter grades for their classes and will have their leave of absence begin at the start of the subsequent semester.

A student on an approved Leave of Absence can return without going through the reapplication process. To re-enroll, students should contact the Provost Office. Students must be cleared by the Assistant Dean of Students, Title IX Coordinator, Business Office, and Financial Aid Office before re-enrollment. In the semester preceding their return to the University, students on a leave of absence will be eligible to participate in registration for classes and residence selection. The student returns to Muskingum under the same catalog requirements for which they originally entered. If the student was on academic probation when they began the leave of absence, they will continue with that status upon their return. If a student does not return after the specified Leave of Absence period without requesting an extension, they will be administratively withdrawn.

### **Withdrawal**

A student who wishes/needs to leave Muskingum University and does not plan to return must apply for withdrawal. Students must complete the Leave of Absence/Withdrawal Form with a representative of the Provost Office. The withdrawal begins on the day the form is completed. Students who withdraw from the university after the start of an academic term are entitled to a refund of charges according to the Withdraw Refund Policy. All suspensions and dismissals take precedence over any withdrawal.

If a student withdraws after the add/drop period but prior to the last regular day of classes, a grade of "W" will be recorded for each course in which a student was registered (with the exception of partial-semester courses in which a final grade was already entered). A student cannot withdraw with a grade of Incomplete (I) or Work in Progress (WIP) on their transcript and must have a final letter grade recorded. Official transcripts will not be released until all outstanding financial obligations have been met and final grades have been entered. A student who withdraws during the final examination period will receive final letter grades for their classes; their withdrawal will begin at the start of the subsequent semester.

A student who has withdrawn and later wishes to return to Muskingum must go through a re-application process. To re-apply, students should contact the Admission Office. Students must be cleared by the Assistant Dean of Students, Provost Office, Title IX Coordinator, Business Office, and Financial Aid Office before re-admission. A withdrawn student returns to Muskingum under the catalog requirements for the semester in which they are re-admitted. If the student was not in good academic standing when they withdrew, they will be required to participate in academic interventions, as prescribed by the Provost Office, upon their return.

## **Administrative Withdrawal**

A student will be administratively withdrawn from the University when they do not have a schedule by the end of the add/drop period, or when they have a schedule but do not attend any classes during the add/drop period with no communication to the University.

A student may also be administratively withdrawn from the University if, after the seventh week of the semester, they have failed to attend all seated classes and/or participate in all online courses for three consecutive weeks with no prior approval and/or no communication to the University.

Students should be aware that an administrative withdrawal may affect their current and future financial aid eligibility and account balance. The withdrawal date will be determined by the University. Administrative withdrawal may be appealed to the Provost Office. Students who have been administratively withdrawn must reapply for admission.

## **Order of Appeal**

Instructors are responsible for outlining grading policies to students at the beginning of each course. If students believe they have received a wrong grade on an assessment or for a course, the initial step is to discuss the grade directly with the instructor teaching the course. If that step does not result in a satisfactory explanation or resolution of the perceived problem, the student may bring the matter to the attention of the department chair. The next person in the line of appeal, should the student continue to contest the grade and wish to pursue an appeal, is the division chair. Should the person to whom the student brings the appeal in this process is also the instructor of the course in question, that person has no jurisdiction over the appeal. In the latter case, the Provost or the Vice President for Graduate and Continuing Studies, as appropriate, will call on an appropriate instructor from the department or related department in the division to review the circumstances and make a recommendation to the Provost, who will be the final arbitrator in any such appeal.

The same process detailed above applies to disputes over alleged plagiarism or other cases of academic dishonesty, although the student may appeal the decision of the Provost to the President. The maximum penalty for the first instance of academic dishonesty is failure of the course; for a second, expulsion from the University.

Students judged guilty of violating library regulations may appeal to the Director of the Library and to the campus Judicial Board.

A student who believes that an instructor has acted in an unprofessional manner may bring a charge of unprofessional conduct to the Professional Relations Committee. The committee, which functions to protect the full rights of all parties

concerned, determines the validity of the charges. The hearing is private; both parties have the opportunity to be heard in their own cause, and the instructor personally selects advisors. A full stenographic record of the hearing is taken and made available to both parties. Either party may request the testimony of other instructors or students when it can be shown that these persons have access to facts that bear on the case. At the conclusion of the hearing, the committee renders its judgments and recommendations in writing to the parties concerned. Written copies of the Committee's judgment and recommendation shall be placed in the files of both parties in the office of the Provost.

## Admissions Information

### Affiliate Programs

Muskingum University offers students the opportunity to earn academic credit from other institutions through its affiliate programs. These programs are typically focused toward a particular academic or internship experience for which the off-campus institution offers a specialization that cannot be obtained on campus. The following is a description of the programs for which Muskingum has affiliate agreements. Students participating in these programs are generally considered to be enrolled at Muskingum University.

On receipt of an official transcript from an affiliate program, credit will be awarded for all pre-approved coursework in which a passing grade has been assigned. Letter grades, but no equivalent quality points, will be assigned to transfer work. With the exception of calculations for Latin Honors and Dean's List, transfer work from affiliate programs affects neither term nor cumulative grade point average.

**Speech Pathology and Audiology** emphasis is available through an agreement with Kent State University. A bachelor's degree from Muskingum with this emphasis provides students the opportunity to enter the graduate program in Speech Pathology or Audiology at Kent State University.

**Study Abroad/International Study** provides the opportunity for sophomores, juniors and seniors to study for one or two semesters at a foreign university through Muskingum's exchange programs. Formal student-exchange agreements exist between Muskingum University and institutions in Asia, Canada, Europe, and South America. In most cases there is no extra fee for participation in these exchange programs. Students interested in study abroad should consult the Coordinator of Study Abroad for further information. To make certain that their programs of study satisfy Muskingum's requirements, students must have their programs approved by the Coordinator of Study Abroad. Study abroad opportunities outside of those already established at Muskingum are also possible, as are short-term study abroad programs.

**Washington Semester** is available through a cooperative arrangement with American University in Washington, D.C. It offers students in-depth experiential learning in their choice of a dozen areas of study including American politics, international relations, justice and law, journalism, international economics and business, public health, and more. The curriculum includes a full-time academic schedule (8-12 hours) and an internship in the heart of the nation's capital (4 hours).

### May Term & More (Traditional Undergraduate Summer Term)

Muskingum's undergraduate summer program, offers a broad selection of courses in a variety of delivery formats, including classroom-based, online, and blended learning. Students may also select from a range of scheduling formats starting with the intensive 4-week May session and continuing throughout the summer with 10-week, 5-week and 1-week courses. May Term & More classes are open to all Muskingum students as well as students from other schools.

# Second Baccalaureate Degree

To obtain a second Bachelor's degree in a major different from that of the first degree conferred, a student must:

1. Develop an appropriate plan of study comprised of at least 30 semester hours of courses that do not duplicate those constituting the major(s) of the first degree.
2. Obtain approval of the plan of study from the department of the proposed new major, and the Provost.
3. Successfully complete at least 30 semester hours in residence at Muskingum University beyond the first degree, including a capstone experience and half of the hours for the major.
4. Earn a grade point average of 2.00 or above for all coursework presented in the new program. Some areas or majors may require a higher GPA for graduation.

# Transfer Student Policies

To be eligible for transfer credit, courses must be completed at a regionally accredited college or university with a passing grade or better. Remedial courses are not eligible for transfer credit. A transfer student might be asked to provide a college catalog from their previous institution(s) and/or a course syllabus for specific classes.

All transfer students must complete a minimum of 32 credit hours at Muskingum University, regardless of the number of credits transferred from other institutions, in order to graduate from Muskingum.

Class standing is determined by transferable semester credit hours. Minimum credit hours for class status are as follows: sophomore (28), junior (60), senior (90).

Quarter hours earned at previous institutions are modified to semester hours. One quarter hour equals 0.67 semester hours.

Students may earn credits and/or advanced standing through departmental proficiency examinations, Advanced Placement Program, College Level Examination, military service and lifelong experience.

Muskingum adheres to the Ohio Transfer and Articulation Policy. Students who have earned an Associate's Degree, or who have completed at least 60 semester credit hours of earned transferable credit, from regionally accredited institutions, are permitted to complete the General Education Requirement (Degree Requirement # 8) through successful completion of the Transfer Module recognized by the Ohio Board of Regents. Eligible students who have not completed a recognized Transfer Module may fulfill this requirement by completing the following requirements through a combination of transfer credit and/or Muskingum University coursework:

At least 3 semester credit hours in English Composition/Oral Communication

At least 3 semester credit hours in Mathematics/Statistics/Logic

At least 6 semester credit hours in Arts/Humanities

At least 6 semester credit hours in Social/Behavioral Sciences

At least 6 semester credit hours in Natural Sciences.

A total of at least 36 semester credit hours from the above categories

A 3-credit upper-level Moral Inquiry course (see General Education Requirements- Moral Inquiry category)

A 3 credit upper-level Writing Unit course (Writing Unit courses are designated in the schedule with a "#" in the title)

# Registration

## Pass/Fail Option

Under the Pass/Fail Option, a junior or senior may take two courses per year for credit outside the major or minor and the University's General Education Requirements without having the grade count toward the cumulative grade point average. The student must have a GPA of 2.00 or higher and permission from the Registrar, the faculty advisor, and the course instructor. Only S (pass) or U (fail) grades are given. The decision to take a course on the Pass/Fail Option must be declared by the end of the add/drop period and cannot be changed after the add/drop period. The limit of courses taken under the Pass/Fail Option does not include courses designated exclusively S/U.

## Registration

New students entering in the fall are scheduled for classes during the summer; new students entering in the spring are scheduled for classes beginning in early December. Continuing students schedule their classes for the next semester in the latter part of the current semester. Changes (add/drop) may be made to schedules at any time until the end of the fifth day of class.

\*Adult undergraduate degree completers should refer to the MAP Guidebook.

## Transcripts

Official copies of Muskingum University transcripts bearing the University seal and the Registrar's signature are sent directly to schools or organizations upon the request of students or alumni. Individuals may also receive official copies of the transcript (which are stamped "Issued to Student") following the same ordering process. Students may request transcripts by going to: <https://www.muskingum.edu/registrar/transcript-information>.

Currently enrolled students can obtain unofficial copies of their Muskingum University transcripts through the University's on-line academic record system. Grades are recorded on transcripts at the end of each term. Students may request that transcripts be held until grades for the courses in which they are enrolled are recorded. Transcripts and diplomas are not released for students with overdue accounts.

## Transferring Courses

Credit toward a degree from Muskingum University may be granted for coursework taken at other regionally accredited institutions. Equivalency, elective credit, or no credit decisions are determined using official transcripts and course descriptions and in consultation with chairs of the various departments. Muskingum adheres to the Ohio Transfer and Articulation Policy. Requirements of specific majors or programs may be more stringent. Transfer credit is not accepted for courses for which previous credit has already been granted. Transfer credit may not be used to replace grades earned at Muskingum University. Only credit hours transfer, not the corresponding grade point average for transfer work, except to determine Latin honors (for which the grade point average may be lowered but not raised).

# Advising

New first-year students are assigned to faculty or staff advisors through the First-Year Program. These advisors provide counsel and assistance in academic and social acclimation and arranging course schedules. Students are required to declare a major no later than the middle of the second semester of their sophomore year. Once a student declares a major, he/she is then reassigned to a faculty advisor who teaches in that major.

## **ACCT 201 - Financial Accounting**

**Credit Hours: 3**

Introduces the basic accounting theory and procedures for proprietorships, partnerships, and corporations.

## **ACCT 202 - Managerial Accounting**

**Credit Hours: 3**

Covers the analysis and interpretation of accounting information for management planning, controlling, and decisions.

Prerequisite: ACCT 201

## **ACCT 301 - Intermediate Accounting I**

**Credit Hours: 3**

Examines the elements of modern financial accounting theory in the preparation of corporate financial statements.

Prerequisite: Minimum grade of C in ACCT 201

## **ACCT 302 - Intermediate Accounting II**

**Credit Hours: 3**

Examines the elements of modern financial accounting theory in the preparation of corporate financial statements.

Prerequisite: Minimum grade of C in ACCT 201, ACCT 301

## **ACCT 363 - Cost Accounting**

**Credit Hours: 3**

Covers manufacturing cost accumulation for product costing and the analysis of costs for managerial decisions.

Prerequisite: ACCT 202

## **ACCT 364 - Income Taxes**

**Credit Hours: 3**



Analyzes federal income tax laws and their application to individuals.

Prerequisite: ACCT 201

## **ACCT 410 - Topics in Accounting**

**Credit Hours: 3**

Offers the student an opportunity to pursue the in-depth study of accounting theory not covered in other accounting courses.

Prerequisite: ACCT 302

Repeatability: The course may be repeated for credit as the subject matter changes.

## **ACCT 411 - Advanced Accounting**

**Credit Hours: 3**

Involves the accounting for partnerships, consolidations, foreign currency translation, and governmental units.

Prerequisite: ACCT 302

## **ACCT 412 - Auditing**

**Credit Hours: 3**

Examines the concepts necessary to determine whether a business's financial statements have been prepared in accordance with generally accepted accounting principles.

Prerequisite: ACCT 302

## **ACCT 420 - Accounting Information Systems**

**Credit Hours: 3**

Focuses on acquiring an understanding of business processes which are fundamental to contemporary auditing, professional, and legal considerations relating to the organization's internal control processes. Detailed material on business and internal control processes are central to this course, which stresses information, communication, and electronic commerce applied within the contexts of business processes, transaction cycles, and the internal control processes.

Prerequisite: ACCT 301

## **ACCT 421 - Advanced Taxation**

**Credit Hours: 3**

The second course in the tax series and is a continuation of the Income Taxes course. Advanced taxation issues related to individual taxpayers are examined. In addition, the taxation of corporations, partnerships, exempt entities, estates, and trusts are covered.

Prerequisite: ACCT 364

## **ACCT 422 - Governmental Accounting and Auditing**

**Credit Hours: 3**

Focuses on the unique aspects of the accounting methods that are used by governmental and not-for-profit entities. The course also examines audit procedures and requirements that are applicable to these entities.

Prerequisite: ACCT 302

## **ACCT 423 - Software Applications for Accountants**

**Credit Hours: 3**

Focuses on business applications implementing EXCEL at both the introductory and intermediate levels, and Quickbooks. These skills are then applied to accounting exercises and practice sets.

Prerequisite: ACCT 301

## **ACCT 495 - Seminar**

**Credit Hours: 3**

Enables the student to pursue in depth an approved research project in accounting.

Prerequisite: ACCT 302

## **ANST 250 - Career Development in Animal Studies**

**Credit Hours: 1**

Orients students to the field of animal studies as well as to the array of career opportunities that can extend from a major in animal studies. Students are challenged to investigate the specific knowledge and skills required for job candidates in their area of interest as well as identifying potential employers. As part of the course experience, students are required to develop a presentation of career and employment options based on research conducted using resources available through the University's Office of Career Services. The seminar requires students to identify academic coursework as well as professional development experiences (e.g., internship opportunities, shadowing programs, research experiences) that are appropriate for their career interests. Students submit a career development plan that highlights the knowledge, skills, and experiences they need to acquire as well as any needs they may have to clarify their goals.

## **ANST 495 - Senior Seminar in Animal Studies**

**Credit Hours: 3**

A capstone course for students completing the animal studies major. The course involves reading and analysis of literature from the field. Students complete a capstone project that generally takes the form of a written literature review, developing a capstone experience that directly relates to the student's career interest area(s). Topics are selected in consultation with the supervising faculty member.

Prerequisite: permission of the course instructor

## **ART 112 - Drawing I**

**Credit Hours: 3**

Introduces the fundamentals of two-dimensional composition through experiences designed to increase visual perception and provide technical skill. Students are introduced to visual concepts such as positive and negative space, linear perspective, and proportion. Discussion and critiques introduce aesthetic theories.

## **ART 120 - Three-Dimensional Design**

**Credit Hours: 3**

A foundation course which is intended to be completed in the freshman year (or initial year of study) for the art major. The course introduces the fundamentals of three-dimensional compositions for the visual arts. The course is designed to increase visual perception and provide technical skills with fundamental three-dimensional problems. A portion of the course provides experience with the use of tools and materials required in fabrication of three-dimensional media of wood, paper, wire, clay, metals, and new technologies, while another portion of the course focuses on design using traditional and computer related tools.

## **ART 121 - Ceramics I**

**Credit Hours: 3**

Introduces methods and aesthetics from ancient and contemporary practices used worldwide. Fundamental three-dimensional design problems are explored using hand building and wheel throwing techniques. Basic clay and glaze formulation theory along with various firing procedures are included.

## **ART 131 - Sculpture I**

**Credit Hours: 3**

Introduces three-dimensional design elements, criticism, media, technique, and conceptual concerns as employed in contemporary and historical sculpture produced worldwide. Inspiration, conception, and working philosophies are stressed.

## **ART 141 - Photography**

**Credit Hours: 3**

Introduces the fundamentals of black and white photography. This course covers lenses, lighting, camera handling, and various techniques in digital photography. It also involves digital photo manipulation, matting, and displaying prints. Emphasis is on historical development of photography, the study of composition, and creative approaches of photographic expression.

## **ART 151 - Introduction to Art**

**Credit Hours: 3**

Expands the student's awareness and understanding of the visual arts through art theory and critical analysis by emphasizing present, historical, and multi-cultural perspectives.

## **ART 170 - Graphic Design I**

**Credit Hours: 3**

Introduces elements of two-dimensional, visual communication design. Highlights include an investigation of basic concepts and principles of graphic design, and an introduction to utilization of computer software programs in representation, creation, and study of designs. Students design and produce basic-level design projects in a computer-based environment.

## **ART 212 - Drawing II**

**Credit Hours: 3**

A further development of the fundamentals presented in Drawing I, including a variety of media; subject matter including landscape, figure drawing, portrait, and still life; and approaches to personal expression in drawing.

Prerequisite: ART 112

## **ART 221 - Ceramics II**

**Credit Hours: 3**

A thorough investigation of wheel throwing techniques, including a range of glazes and firings. Wheel aesthetics are contrasted with those of hand building.

Prerequisite: ART 121

## **ART 231 - Sculpture II**

**Credit Hours: 3**

A more thorough study of sculptural techniques. Effective communication of conceptual concerns is stressed.

Prerequisite: ART 131

## **ART 241 - Painting I**

**Credit Hours: 3**

Deals with the fundamentals of painting, including color theory, color mixing, preparation of canvas, and other grounds and care of materials. Aesthetic theories and criteria of excellence are introduced.

## **ART 270 - Graphic Design II**

**Credit Hours: 3**

Includes computer-based graphic design areas, and teaches page design and layout of various types. Typography, image, space, color, and form will be integrated as the term progresses. Emphasis is placed on students' application of

design concepts to communication purpose, solutions for specific client areas, and development of visual designs that effectively communicate the desired message.

Prerequisite: ART 170

### **ART 312 - Drawing III**

**Credit Hours: 3**

Builds upon Drawing I and Drawing II with a focus on producing more personal and expressive drawing. Advanced composition, communication, content, and idea development are emphasized.

Prerequisite: ART 212

### **ART 321 - Ceramics III**

**Credit Hours: 3**

An advanced investigation of one or more aspects of the field. Emphasis is on competent and informed individual initiative and creation.

Prerequisite: ART 221

### **ART 331 - Sculpture III**

**Credit Hours: 3**

An advanced investigation of one or more aspects of the field with emphasis on competent and informed individual initiative and creation.

Prerequisite: ART 231

### **ART 341 - Painting II**

**Credit Hours: 3**

Focuses upon personal expression and the decisions made in creative endeavors. Students explore individual solutions to painting problems and develop their own aesthetic and style.

Prerequisite: ART 241

### **ART 350 - Art History I**

**Credit Hours: 3**

Introduces Western art from prehistory through Roman classicism and visual art from non-western cultures. Understanding of historical and cultural context is stressed.

### **ART 351 - Art History II**

**Credit Hours: 3**

Investigates Western art from early medieval times through the end of the 1700s. Stylistic influences are stressed.

**ART 352 - Art History III**

**Credit Hours: 3**

An investigation of why and how Western art changes from the early 1800s to the present. Conceptual and multi-cultural influences are stressed.

**ART 370 - Graphic Design III**

**Credit Hours: 3**

Focuses on advanced graphic design concepts and ideas, as well as in-depth graphic design features on the computer. Production technology is discussed. Advanced graphic communication and typography concepts are studied. Graphic design in a variety of programs in marketing, communications, advertising, public relations, and journalism is highlighted. Students work towards building finished portfolio contents.

Prerequisite: ART 170 and ART 212, or permission of the instructor

**ART 412 - Life Drawing**

**Credit Hours: 3**

Consists of drawing from the nude, draped and clothed human figure from masterpieces in books or museums, with emphasis on study of structure, proportion and anatomy for artists. Various media and approaches to drawing figure are used.

Prerequisite: ART 212 or permission of the instructor

**ART 441 - Painting III**

**Credit Hours: 3**

Provides the advanced student with the opportunity to develop control and mastery of the techniques and methods acquired in ART 241 and ART 341. A personal aesthetic and style are emphasized.

Prerequisite: ART 341

**ART 455 - Student Teaching in Primary/Middle Level Visual Arts**

**Credit Hours: 5**

Involves students as practice teachers in a six-week supervised experience in planning for instruction, creating an environment for student learning, teaching for student learning, and reflecting on students' performance completed in a primary or middle school setting, grades K-3 or grades 4-8.

**ART 457 - Student Teaching in Secondary Visual Arts**

**Credit Hours: 5**

Involves students as practice teachers in a six-week supervised experience in planning for instruction, creating an environment for student learning, teaching for student learning, and reflecting on students' performance completed in a secondary school setting, grades 9-12.

**ART 490 - Senior Seminar and Capstone Assessment****Credit Hours: 2**

Provides the senior art major with a gallery exhibit experience. The student carries out all aspects of designing, publicizing, and hanging an exhibit of visual work done during college. The student completes the required portfolio competencies of written paper, interdisciplinary art, intercultural art, art history, and power points of images.

**ART 491 - Directed Study****Credit Hours: 1**

Allows the advanced student to create independent work under faculty guidance with permission of the department chair.

**ART 492 - Directed Study****Credit Hours: 2**

Allows the advanced student to create independent work under faculty guidance with permission of the department chair.

**ART 493 - Directed Study****Credit Hours: 3**

Allows the advanced student to create independent work under faculty guidance with permission of the department chair.

**ART 494 - Directed Study****Credit Hours: 4**

Allows the advanced student to create independent work under faculty guidance with permission of the department chair.

**ATHT 110 - Introduction to Athletic Training I****Credit Hours: 3**

Presents an overview of the profession of athletic training as well as a survey of the fundamentals of athletic medicine, including an overview of injuries.

Note: This course is a requirement for those students wishing to apply for admission into the Athletic Training Program (ATP).

## **ATHT 201 - Practicum**

### **Credit Hours: 3**

Provides the student with clinical based opportunities within a variety of athletic training settings working under the direct supervision of a preceptor. Classroom and laboratory sessions are designed to review specific educational competencies and clinical proficiencies. Students complete integrated clinical proficiencies as required for completion of the athletic training program. Students are required to complete a minimum of 120 hours during the semester while assigned to a clinical rotation, in addition to one hour of classroom instruction each week. Clinical education rotations include a rotation in each of the following areas: upper extremity intensive, lower extremity intensive, non-orthopedic/non-sport intensive, and equipment intensive.

Prerequisite: Formal acceptance into the ATP

## **ATHT 202 - Practicum**

### **Credit Hours: 3**

Provides the student with clinical based opportunities within a variety of athletic training settings working under the direct supervision of a preceptor. Classroom and laboratory sessions are designed to review specific educational competencies and clinical proficiencies. Students complete integrated clinical proficiencies as required for completion of the athletic training program. Students are required to complete a minimum of 120 hours during the semester while assigned to a clinical rotation, in addition to one hour of classroom instruction each week. Clinical education rotations include a rotation in each of the following areas: upper extremity intensive, lower extremity intensive, non-orthopedic/non-sport intensive, and equipment intensive.

Prerequisite: Formal acceptance into the ATP

## **ATHT 250 - Upper Extremity Assessment**

### **Credit Hours: 4**

Entails the study of evaluation techniques for injuries to the thoracic and cervical spine, the head and the upper extremities. Review of anatomy, injury recognition, muscle testing, treatment protocols and preventative measures are also examined.

Prerequisite: Formal acceptance into the ATP

Note: The course is taught in both classroom and laboratory settings.

## **ATHT 255 - Lower Extremity Assessment**

### **Credit Hours: 4**

Entails the study of evaluation techniques for injuries to the lower extremities and lower back. Anatomy, injury recognition, muscle testing, treatment protocols and preventative measures are also examined. The course is taught in both classroom and laboratory settings.

Prerequisite: ATHT 250

## **ATHT 260 - Therapeutic Intervention I**



**Credit Hours: 3**

Examines the broad field of therapeutic exercise and rehabilitation techniques. Didactic instruction covers various skills used in therapeutic rehabilitation of major body areas following injury or disease. Topics also include therapeutic modalities, and pharmacology.

Prerequisite: Formal acceptance into the ATP

**ATHT 265 - Therapeutic Intervention II****Credit Hours: 3**

Utilizes intervention strategies as applied to specific injury rehabilitation programs. Students design and implement programs in the rehabilitation of patients from injuries and conditions.

Prerequisite: ATHT 260

Note: Both classroom and laboratory settings are used.

**ATHT 301 - Practicum****Credit Hours: 3**

Provides the student with clinical based opportunities within a variety of athletic training settings working under the direct supervision of a preceptor. Classroom and laboratory sessions are designed to review specific educational competencies and clinical proficiencies. Students complete integrated clinical proficiencies as required for completion of the athletic training program. Students are required to complete a minimum of 120 hours during the semester while assigned to a clinical rotation, in addition to one hour of classroom instruction each week. Clinical education rotations include a rotation in each of the following areas: upper extremity intensive, lower extremity intensive, non-orthopedic/non-sport intensive, and equipment intensive.

Prerequisite: ATHT 201, ATHT 202, formal acceptance into the ATP

**ATHT 302 - Practicum****Credit Hours: 3**

Provides the student with clinical based opportunities within a variety of athletic training settings working under the direct supervision of a preceptor. Classroom and laboratory sessions are designed to review specific educational competencies and clinical proficiencies. Students complete integrated clinical proficiencies as required for completion of the athletic training program. Students are required to complete a minimum of 120 hours during the semester while assigned to a clinical rotation, in addition to one hour of classroom instruction each week. Clinical education rotations include a rotation in each of the following areas: upper extremity intensive, lower extremity intensive, non-orthopedic/non-sport intensive, and equipment intensive.

Prerequisite: ATHT 201, ATHT 202, formal acceptance into the ATP

**ATHT 370 - General Medical Conditions****Credit Hours: 4**

Focuses on clinical signs and symptoms of pathology, which will allow the practicing athletic trainer to recognize systemic illnesses and injuries. The use of pharmacological agents in acute and chronic illnesses and conditions is also

discussed.

Prerequisite: ATHT 265

## **ATHT 375 - Therapeutic Modalities**

### **Credit Hours: 4**

Provides the student with the opportunity to develop knowledge of and proficiency in the theory and practice of the techniques and methods of therapeutic modalities (such as thermal and electromagnetic agents) which are used in the treatment and care of athletic injuries.

Prerequisite: Formal acceptance into the ATP

## **ATHT 395 - Research Methods**

### **Credit Hours: 3**

Introduces the basic skill necessary to critique research in athletic training. Students focus on the process of selecting a topic and then writing a manuscript to be submitted for publication. The course prepares the Athletic Training student for 495, Senior Seminar.

Prerequisite: ATHT 370

## **ATHT 401 - Practicum**

### **Credit Hours: 3**

Provides the student with clinical based opportunities within a variety of athletic training settings working under the direct supervision of a preceptor. Classroom and laboratory sessions are designed to review specific educational competencies and clinical proficiencies. Students complete integrated clinical proficiencies as required for completion of the athletic training program. Students are required to complete a minimum of 120 hours during the semester while assigned to a clinical rotation, in addition to one hour of classroom instruction each week. Clinical education rotations include a rotation in each of the following areas: upper extremity intensive, lower extremity intensive, non-orthopedic/non-sport intensive, and equipment intensive.

Prerequisite: ATHT 301, ATHT 302, formal acceptance into the ATP

## **ATHT 402 - Practicum**

### **Credit Hours: 3**

Provides the student with clinical based opportunities within a variety of athletic training settings working under the direct supervision of a preceptor. Classroom and laboratory sessions are designed to review specific educational competencies and clinical proficiencies. Students complete integrated clinical proficiencies as required for completion of the athletic training program. Students are required to complete a minimum of 120 hours during the semester while assigned to a clinical rotation, in addition to one hour of classroom instruction each week. Clinical education rotations include a rotation in each of the following areas: upper extremity intensive, lower extremity intensive, non-orthopedic/non-sport intensive, and equipment intensive.

Prerequisite: ATHT 301, ATHT 302, formal acceptance into the ATP

## **ATHT 495 - Senior Seminar**

### **Credit Hours: 3**

Enables the student to pursue in depth an approved research project with a focus on the evidence-based practice of athletic training. Students research a specific topic and prepare an oral presentation as well as a written paper.

Prerequisite: ATHT 395

## **ATHT 496 - Current Concepts in Athletic Training**

### **Credit Hours: 3**

Examines special topics pertaining to the field of athletic training and sports medicine. Topics may include nutrition, equipment utilization, women in athletics and/or other advanced topics in athletic training identified by students. This course also begins preparation for students taking the BOC Examination.

Prerequisite: ATHT 495

## **BIOL 100 - Science and Society**

### **Credit Hours: 3**

Intended for non-science majors, although a total of two credit hours from this course or BIOL 106 may be applied toward the biology major. Offerings focus on an area of the biological sciences which has an impact on society. Discussions include the impact this area has on society and include an exploration of the use of scientific method. Each offering focuses on one primary topic area. Examples of a primary topic area include environmental science, conservation science, or human health.

## **BIOL 106 - Contemporary Biologic Issues**

### **Credit Hours: 4**

Intended for non-science majors, although two credit hours from any one of the following classes may be applied toward the biology major. In addition, more than one course may be taken for graduation credit, but only one counts for the gen ed requirement. Topical offerings provide students with current content knowledge within important fields of biological science and also serve as a platform for illustrating how scientific inquiry develops and addresses scholarly questions. Following are descriptions of the different course offerings: a. Environmental Science examines the basic principles of evolution, ecology, and population biology. These principles lay the groundwork for a detailed look at world biodiversity, conservation, sustainable resource use, and anthropogenic-based water and air pollution. b. Conservation Science deals with the threats facing the Earth's biological diversity such as habitat destruction, overexploitation, and exotic species introductions. In addition, practical approaches to maintaining and managing biological diversity are examined and the critical linkages between ecology, economics, and politics are emphasized. c. Concepts in Evolution provide an introduction to fundamental principles underpinning contemporary evolutionary biology. In addition to lecture and text readings, weekly discussion meetings provide a forum for evaluating the extent to which evolutionary principles may provide a contextual framework for understanding a number of contemporary social issues. d. Genetic Frontiers and Biotechnology surveys the scientific principles, applications and social implications of genetic engineering. e. Human Biology surveys basic biological chemistry, scientific method, tissues and organ systems and applies this to demonstrate how biology influences our quality of life. f. Human Diseases surveys microbes and disease with special emphasis on infectious diseases caused by bacteria and viruses. The characteristics of microbes, interaction between microbes and host, immunity to disease, and treatment are also emphasized.

Note: Lecture and laboratory experiences are included.

### **BIOL 107 - Biology Laboratory I**

**Credit Hours: 1**

A laboratory course that utilizes observation and experimentation to explore the principles of evolution and the defining characteristics of several of the major animal phyla.

Co-requisite: BIOL 111

### **BIOL 108 - Biology Laboratory II**

**Credit Hours: 1**

A laboratory course that utilizes observation and experimentation to study the structure and function of various organs and organ systems in vertebrates.

Co-requisite: BIOL 112

### **BIOL 111 - Organismal Biology I**

**Credit Hours: 3**

Studies the principles of biological evolution; examines the defining characteristics of all of the major animal phyla.

Co-requisite: BIOL 107

### **BIOL 112 - Organismal Biology II**

**Credit Hours: 3**

Studies the structure and function of various organ systems in vertebrates. Examples from invertebrates are frequently used to emphasize diversity, adaptability, and evolution.

Co-requisite: BIOL 108

### **BIOL 121 - Anatomy & Physiology I**

**Credit Hours: 4**

Focuses on the anatomy and physiology of the human body. This is the first part of a two-course offering in human anatomy and physiology which covers how the body is organized, supported, and regulated.

### **BIOL 122 - Anatomy & Physiology II**

**Credit Hours: 4**

Focuses on the anatomy and physiology of the human body. This is the second part of a two-course offering in human anatomy and physiology and primarily focuses on the maintenance and continuity of the human body.

## **BIOL 213 - Functional Histology**

**Credit Hours: 4**

Studies the structure and function of animal tissues and the methods used in preparing them for microscopic examination.

Prerequisite: BIOL 112, BIOL 108

Note: Lecture and laboratory experiences are included.

## **BIOL 221 - Vascular Plant Systematics**

**Credit Hours: 4**

Deals with the classification, evolution, and natural history of selected families of vascular plants with emphasis on the regional flora. Students are required to develop their own plant collection.

Prerequisite: BIOL 111, BIOL 107

## **BIOL 226 - Introduction to Cell and Molecular Biology**

**Credit Hours: 3**

Focuses on cell structure and function, membrane structure and function, cellular energy, photosynthesis, glycolysis, cellular respiration, DNA, gene activity, the regulation of gene activity, recombinant DNA, and biotechnology.

Prerequisite: BIOL 112 and BIOL 108 or BIOL 121 or BIOL 122

## **BIOL 232 - Vertebrate Natural History**

**Credit Hours: 4**

This course focuses on the identification, classification and natural history of fish, amphibians, reptiles, birds and mammals in the local region.

Prerequisite: BIOL 111, BIOL 107

Note: Lecture, laboratory, field experiences, and possible Saturday field trips are included.

## **BIOL 240 - Animal Behavior**

**Credit Hours: 3**

Examines the basic principles of animal behavior as derived from evolution, ecology, ethology and development. The course focuses on important biological activities, such as communication, mating, foraging, migration, predator-prey interactions, and parental care.

Prerequisite: BIOL 111, BIOL 107, BIOL 112, BIOL 108

## **BIOL 250 - Human Disease: Perspectives for Health Professionals**

**Credit Hours: 3**

This course provides an overview of human diseases and various disabling conditions as they relate to healthcare professionals and settings. Students will explore the etiology, symptoms and signs, diagnosis, treatment, prognosis, prevention, and patient teaching opportunities for each disease and condition from the perspective of a healthcare professional. Course content will be reinforced through application to clinical practice in case studies related to the learner's professional area of interest.

MAP Only: X

**BIOL 304 - Evolution****Credit Hours: 4**

Provides an in-depth exposure to contemporary evolutionary biology through lectures and selected readings from the primary literature. The course not only emphasizes information germane to the theory itself, but also important questions currently facing researchers in the field.

Prerequisite: BIOL 111, BIOL 107, BIOL 112, BIOL 108

**BIOL 305 - Human Genetics****Credit Hours: 3**

Provides an overview of fundamental principles, concepts, and knowledge in the field of genetics. The course places particular emphasis on those aspects of genetics that are germane to human heredity and health.

Prerequisite: Permission of the department. Does not count toward the biology major.

**BIOL 306 - Genetics****Credit Hours: 4**

Surveys the fundamental principles of heredity and variation.

Prerequisite: BIOL 112 and BIOL 108 or BIOL 121 and BIOL 122

Note: Lecture and laboratory experiences are included.

**BIOL 308 - General Ecology****Credit Hours: 4**

Examines the interrelationships between organisms and the environments in which they live.

Prerequisite: BIOL 111, BIOL 107

Note: Lecture, laboratory and extensive field work are included.

**BIOL 312 - Microbiology****Credit Hours: 4**

Studies the relationship between microorganisms and our lives. The course explores the nature of microorganisms with special emphasis placed on bacteria of importance to medicine and industry. The course also explores body defense mechanisms.

Prerequisite: BIOL 112 and BIOL 108 or BIOL 121 and BIOL 122, CHEM 111, CHEM 112

Note: Lecture and laboratory experiences are included.

## **BIOL 321 - Advanced Botany**

**Credit Hours: 4**

An evolutionary study of the evolution, morphology, and life-history traits of the major plant and algae groups. Lab emphasizes anatomy.

Prerequisite: BIOL 111, BIOL 107

## **BIOL 336 - Cellular Physiology**

**Credit Hours: 4**

Studies the cellular processes involved in membranes, bioenergetics, control systems, neurochemistry, muscles, and glands. Laboratory emphasizes basic techniques used in cell biology and biochemistry.

Prerequisite: BIOL 112, BIOL 108, BIOL 226, CHEM 111, CHEM 112

## **BIOL 346 - Pathophysiology**

**Credit Hours: 3**

Provides an understanding of how physiological changes manifest themselves under altered health states. Upon completion of the course students will possess an understanding of how altered health states change normal physiological conditions. Additionally, students will understand basic methods of detection and putative treatment strategies.

Prerequisite: BIOL 112 or BIOL 121 and BIOL 122

## **BIOL 368 - Fundamental Neuroscience**

**Credit Hours: 4**

Emphasizes basic neurophysiology, neurochemistry, synaptic function, coordinated organismal functions, and common neurological disorders. Laboratory emphasizes neuroanatomy.

Prerequisite: BIOL 112, BIOL 108, BIOL 226

Cross Listed As: NRSC 368

## **BIOL 373 - Comparative Vertebrate Anatomy**

**Credit Hours: 4**

Studies the origin, relationships, and comparative morphology of a representative series of chordates.

Prerequisite: BIOL 112, BIOL 108

Note: Lecture and laboratory experiences are included.

## **BIOL 375 - Molecular Biology**

**Credit Hours: 4**

Studies the biochemical and molecular interactions within living cells with special emphasis placed on protein structure, gene structure and expression, gene regulation, and genetic engineering.

Prerequisite: BIOL 112, BIOL 108, BIOL 226, CHEM 111, CHEM 112

Note: Lecture and laboratory experiences are included.

## **BIOL 376 - Pathophysiology II**

**Credit Hours: 3**

Provides an understanding of how physiological changes manifest themselves under altered health states. Upon completion of this course, students will possess an understanding of how altered health states change normal physiological conditions. Additionally, students will understand basic methods of detection and putative treatment strategies. This is one of two-course offerings in pathophysiology and primarily focuses on neurological, musculoskeletal and integumentary pathologies.

MAP Only: X

## **BIOL 385 - Topics in Biology**

**Credit Hours: 1-4**

Provides an opportunity to study areas of biology not covered by the established curriculum

Prerequisite: Permission of instructor

## **BIOL 420 - Senior Seminar**

**Credit Hours: 3**

Involves a discussion of a series of scientific papers covering a biological topic. In addition, students search the biological literature related to the topic and prepare an oral presentation as well as a written paper.

Prerequisite: Biology major and junior standing.

## **BIOL 421 - Biological Research**

**Credit Hours: 2**

Involves laboratory and/or field research on a biological problem.

Prerequisite: BIOL 420 and permission of the instructor



## **BIOL 422 - Biological Research**

**Credit Hours: 2**

Involves laboratory and/or field research on a biological problem.

Prerequisite: BIOL 421 and permission of the instructor

## **BUSI 221 - Organizational Management**

**Credit Hours: 3**

Examines the classical, behavioral, and quantitative schools of management theory, with particular attention given to current research and practice. The nature of authority and responsibility, departmentation, line and staff relationships, organizational growth, managerial development, decision-making, and leadership of both profit and non-profit organizations are among the topics discussed.

## **BUSI 241 - Marketing**

**Credit Hours: 3**

Studies the problems of distributing goods, both industrial and consumer. Special attention is given to the increased importance of marketing techniques in modern economies.

## **BUSI 318 - Managerial Finance**

**Credit Hours: 3**

Studies the management of fixed and working capital, short and long-range financial planning, money and capital markets, expansion of income administration, business failures, and business reorganization.

Prerequisite: ACCT 201, ECON 215

## **BUSI 321 - Management Techniques**

**Credit Hours: 3**

Examines the classical, behavioral, and quantitative schools of management theory, with particular attention given to current research and practice. The nature of authority and responsibility, departmentation, line and staff relationships, organizational growth, managerial development, decision-making, and leadership of both profit and non-profit organizations are among the topics discussed. An emphasis on group decision making and a research component are also components of this class.

Note: Not available for credit to students who have completed BUSI 221 .

MAP Only: X

## **BUSI 325 - Statistics**

**Credit Hours: 3**

Concerned with the analysis of data and application of the principles of probability theory, decision theory, and

statistical inference to the analysis of business and economic data. Emphasis is placed on the construction of economic models in order to gain an understanding of business and government.

### **BUSI 326 - Financial Analysis and Investment**

**Credit Hours: 3**

Evaluates analytic techniques and alternative financial instruments available to the investor. Emphasis is placed on security selection, portfolio management, and the operation of markets.

Prerequisite: ACCT 201, ECON 215

### **BUSI 341 - Marketing Techniques**

**Credit Hours: 3**

This course studies the problems of distributing goods, both industrial and consumer, in a modern economy. Special attention is given to group activities, individual research and the increased importance of marketing techniques in modern economics.

Note: Not available for credit to students who have completed BUSI 241.

MAP Only: X

### **BUSI 360 - Business Law**

**Credit Hours: 3**

Studies law as it relates to business, including torts, crimes, contracts, commercial paper, and anti-trust laws.

### **BUSI 411 - Topics in Business**

**Credit Hours: 3**

An in-depth study of current theory in selected areas and its application to organizational operations.

Prerequisite: By section specified at each offering.

Repeatability: The course may be repeated for credit as the subject matter changes.

### **BUSI 412 - International Business**

**Credit Hours: 3**

Studies business in a global context, stressing cultural, political, and economic environments facing international business and operational aspects of international management, international marketing, and international finance.

Prerequisite: BUSI 221, BUSI 241

### **BUSI 413 - Software Applications for Business**

**Credit Hours: 3**

Focuses on implementing EXCEL and Quickbooks at both the beginning and intermediate levels. ACCESS is implemented at the beginning level.

## **BUSI 414 - Business Ethics**

### **Credit Hours: 3**

Explores how managerial ethical behavior affects organizations, employees, communities, and society. Emphasis is placed on current situations facing managers as they operate in an environment demanding increased corporate ethical behavior.

## **BUSI 415 - Human Resource Management**

### **Credit Hours: 3**

Provides students with a thorough understanding of Human Resource Management issues, practices, and procedures. Through the use of classroom lectures, experiential activities, and cases, students develop the ability to transfer advanced knowledge into practical applications when confronted with human resource opportunities, problems, and challenges.

## **BUSI 416 - Professional Selling**

### **Credit Hours: 3**

Involves the study of direct person-to-person communication that facilitates mutually satisfying exchanges of value. Students discuss and analyze the techniques, myths, issues, ethics, and roles in sales. Many skills that a successful salesperson needs are addressed through both in-class and out-of-class activities.

Prerequisite: BUSI 241

## **BUSI 417 - Advertising**

### **Credit Hours: 3**

Familiarizes the student with the primary methods by which goods, services, ideas, people, and organizations can be advertised to an audience. A strong emphasis is on the issues surrounding the management and planning of an integrated marketing communications strategy.

Prerequisite: BUSI 241

## **BUSI 419 - Consumer Behavior**

### **Credit Hours: 3**

Analyzes the various inputs to, influences on, and outcomes of the consumer buying decision process. Among the topics discussed are consumer motivation; exposure and attention to marketing stimuli; learning, memory, and retrieval; attitude formation and change; problem recognition, information search, evaluation, and purchase decision making; social, cultural, and situational influences on consumer behavior; and various special topics.

Prerequisite: BUSI 221, BUSI 241

## **BUSI 420 - Management Information Systems**

**Credit Hours: 3**

Provides a thorough understanding of how the manager can use the computer in problem solving. It is assumed that students understand the role of the computer as a problem-solving tool.

## **BUSI 422 - Marketing Research**

**Credit Hours: 3**

Studies the tools and techniques available for gathering and analyzing information to be used by those making strategic marketing decisions.

Prerequisite: BUSI 241

## **BUSI 423 - International Marketing**

**Credit Hours: 3**

Broadens the principles of marketing to include corporations conducting business in a global environment. Special attention is given to social, cultural, political, economic and other factors affecting international marketing operations.

Prerequisite: BUSI 241

## **BUSI 424 - Entrepreneurship**

**Credit Hours: 3**

This course offers a broad view of various aspects of entrepreneurship. Includes a focus on creativity and innovation.

## **BUSI 430 - Employment Law for Business**

**Credit Hours: 3**

This course provides students with an overview of the employment-related legal environment impacting the 21st Century American workplace. The course focuses on an overview of the rights and obligations of both the employer and the employee and provides practical examples of how employment laws impact the business setting.

MAP Only: X

## **BUSI 431 - Topics in Human Resource Management**

**Credit Hours: 3**

This course is designed to be a topics course within the specific discipline of Human Resource Management. The course allows the instructor and the B.S. Program in Human Resource Management to take advantage of the most topical and relevant concepts and issues in human resources. This course adds needed depth to a student's learning in the Human Resource major (MAP only), and the course should involve both theoretical and case study as well as applied assignments in the topical area(s).

MAP Only: X

## **BUSI 440 - Marketing Analytics & Strategy**

**Credit Hours: 3**

This course is designed to be a two-fold, integrated approach to understanding and applying appropriate marketing planning and strategy. The first part of the course examines the proper way to organize, analyze, and integrate relevant and reliable research data and information so that it can be used most efficiently and effectively in strategic marketing. The second part of this course is a comprehensive examination of marketing planning and strategy, culminating with the student developing a marketing plan.

MAP Only: X

## **BUSI 450 - Strategic Management**

**Credit Hours: 3**

This course is designed to be a comprehensive examination of strategic management of organizations and how an upper-level manager formulates and implements an appropriate strategy. At a minimum, students will investigate the following: the strategic management process, mission statements, objectives, external and internal analysis, business level strategies, competitive dynamics, financial statement analysis, ethical issues in strategic management, corporate level strategies, international strategies, strategy implementation and organizational change, and corporate governance. Integration of the various management and business disciplines previously studied and experienced as well as the opportunity to develop managerial decision-making abilities.

MAP Only: X

## **BUSI 495 - Seminar**

**Credit Hours: 3**

Enables the student to pursue an approved research project in business theory.

Prerequisite: Departmental approval

Note: May be taken twice for credit by students completing both the Marketing and Business Management majors.

## **BUSI 496 - Bachelor of Science Seminar in Business**

**Credit Hours: 3**

This course is designed to be the capstone experience for a student in the B.S. major degree of study, Business Administration, Marketing, or Human Resource Management. The seminar course requires the student to engage in a significant scientific research project of applied professional project in the discipline of their major.

MAP Only: X

## **CHEM 101 - Joy of Chemistry**

**Credit Hours: 3**

An application of scientific methods of inquiry through a survey of fundamental chemical concepts as they relate to contemporary societal topics of interest. Examples of topics covered include food chemistry, chemistry of brewing, chemistry and your body, forensic chemistry, environmental chemistry, and chemistry and art. It is designed for non-science majors to gain an appreciation for the natural sciences.

Note: This course is not open to those who already have credit for a 100-level chemistry course.

**CHEM 105 - Issues in the Chemical Sciences****Credit Hours: 4**

Designed for non-science majors. Attention is directed to the dynamic and social nature of chemical science by relating contributions of individuals and groups to the advancement of chemical knowledge. Sections of the course are dedicated to exploring the role of chemistry in selected areas of importance to society through the presentation of a set of fundamental chemical concepts.

Note: This course is not open to those who already have credit for a 100-level chemistry course.

**CHEM 108 - General, Organic, and Biological Chemistry****Credit Hours: 4**

The study and application of fundamental chemical concepts in the context of the allied health sciences. Special attention is paid to the areas of general chemistry that can be directly applied to the understanding of organic and biological chemistry.

**CHEM 111 - General Chemistry I****Credit Hours: 4**

Serves as foundation courses for the areas of physical, analytical, inorganic, organic, and biochemistry. Emphasis is placed on the topics of atomic structure, periodicity, stoichiometry, bonding, thermochemistry, kinetics, equilibria, and electrochemistry. The companion laboratories focus on standard and instrumental laboratory methodologies with experiments chosen to illustrate key topics from lecture.

**CHEM 112 - General Chemistry II****Credit Hours: 4**

Serves as foundation courses for the areas of physical, analytical, inorganic, organic, and biochemistry. Emphasis is placed on the topics of atomic structure, periodicity, stoichiometry, bonding, thermochemistry, kinetics, equilibria, and electrochemistry. The companion laboratories focus on standard and instrumental laboratory methodologies with experiments chosen to illustrate key topics from lecture.

Prerequisite: CHEM 111

**CHEM 200 - Laboratory Safety**

**Credit Hours: 1**

Emphasizes "safety first" through experiment planning, including habitual attention to risk assessment and consideration of hazards for oneself, fellow workers, and the public. The course concentrates on developing a prudent attitude toward dealing with laboratory hazards and fosters a determination to make every effort to be informed about risks and reduce them to a minimum.

Prerequisite: Previous or concurrent enrollment in a laboratory science course.

**CHEM 213 - Organic Chemistry I****Credit Hours: 4**

A study of the structure, properties, preparation, and reactions of different classes of organic compounds, including aliphatic hydrocarbons, alcohols, carbonyl compounds, amines, and aromatic compounds, with applications of this material to biological, environmental and industrial processes. Special emphasis is placed on reaction mechanisms and fundamental principles to gain an understanding of the basic principles of organic reactions. The laboratory stresses synthesis, isolation, and purification of carbon compounds along with qualitative organic analysis including different methods of spectroscopy.

Prerequisite: CHEM 112

**CHEM 214 - Organic Chemistry II****Credit Hours: 4**

A study of the structure, properties, preparation, and reactions of different classes of organic compounds, including aliphatic hydrocarbons, alcohols, carbonyl compounds, amines, and aromatic compounds, with applications of this material to biological, environmental and industrial processes. Special emphasis is placed on reaction mechanisms and fundamental principles to gain an understanding of the basic principles of organic reactions. The laboratory stresses synthesis, isolation, and purification of carbon compounds along with qualitative organic analysis including different methods of spectroscopy.

Prerequisite: CHEM 213

**CHEM 230 - Foundational Inorganic Chemistry****Credit Hours: 3**

Presents a descriptive exploration of the chemistry of inorganic compounds including the structure, bonding, and reactions of main-group molecules, an introduction to the principles of coordination chemistry, and an examination of the structures and properties of extended solids.

Prerequisite: CHEM 112

**CHEM 235 - Environmental Chemistry****Credit Hours: 4**

Focuses on the study of current environmental problems including acid rain, ozone depletion, global climate change, urban air pollution, and ground water contamination. Laboratory work emphasizes concepts of special importance in environmental chemistry as well as field sampling and analysis.

Prerequisite: CHEM 112

## **CHEM 240 - Topics in Forensic Chemistry**

**Credit Hours: 1**

A presentation and discussion of forensic chemistry topics of current interest and importance. This is a seminar-style course that provides the opportunity for students to gain an understanding of the field through general readings as well as the recent literature.

Prerequisite: CHEM 111 or permission of the instructor

## **CHEM 250 - Professional Development for Chemists**

**Credit Hours: 1**

This course will help Chemistry majors and minors navigate the professional world and prepare them for success. Students will explore careers, professional schools, internships and other professional opportunities.

Prerequisite: CHEM 112

Note: Required for all Chemistry majors and must be taken in the fall semester of the sophomore or junior years. This course is also open to Chemistry Minors as well as other science majors.

## **CHEM 295 - Chemistry Research**

**Credit Hours: 1-4**

Provides the opportunity for investigation of research questions in the field of chemistry through laboratory and/or library research as supervised by a departmental faculty member.

Prerequisite: Permission of the department

Note: Four to five hours of work per week during the semester is equivalent to one credit hour. Does not count toward the major. Graded S/U.

Repeatability: May be repeated for credit.

## **CHEM 315 - Physical Chemistry I**

**Credit Hours: 4**

The study of the macroscopic, microscopic, and molecular phenomena in chemical systems. Concepts of thermodynamics, kinetics, equilibrium, quantum chemistry, and spectroscopy are developed

Prerequisite: CHEM 112

Co-requisite: MATH 200, PHEN 121

## **CHEM 316 - Physical Chemistry II**

**Credit Hours: 3**

The in-depth study of molecular phenomena in chemical systems. Concepts of atomic and molecular structure,



quantum chemistry, and spectroscopy are developed. A working knowledge of computational chemistry is developed.

Prerequisite: CHEM 315

## **CHEM 335 - Analytical Chemistry**

**Credit Hours: 4**

A study of the modern methods of chemical separation and analysis. In the laboratory, emphasis is placed on application of modern instrumentation to chemical problems.

Prerequisite: CHEM 315

## **CHEM 355 - Advanced Laboratory in Chemistry**

**Credit Hours: 3**

Emphasizes thermodynamics, kinetics, quantum chemistry, and analysis through the application of modern analytical and physical techniques.

Prerequisite: CHEM 214, CHEM 315

## **CHEM 418 - Biochemistry I**

**Credit Hours: 4**

The study of the chemistry of enzyme function and regulation, and the chemistry of metabolic pathways. Emphasis is placed on the structure-activity correlations and mechanisms of reactions, as well as on the thermodynamics and kinetics of the reactions involved. The lab portion of the course includes current techniques for isolation and analysis of biomolecules and the study of enzymatic processes.

Prerequisite: CHEM 214

## **CHEM 419 - Biochemistry II**

**Credit Hours: 3**

The study of the biosynthesis of amino acids and proteins, nucleic acids, lipids, and carbohydrates. These are analyzed at the molecular and mechanistic level through a detailed study of structure, function, and reactions of the compounds involved.

Prerequisite: CHEM 214

## **CHEM 425 - Advanced Inorganic Chemistry**

**Credit Hours: 4**

The study of atomic, molecular, and crystalline solid state structures of the elements, inorganic compounds, and organometallic compounds. Bonding models and applications of molecular and solid state symmetry are considered. Properties and selected modern applications such as catalysis are investigated. The lecture and laboratory emphasize a variety of chemical synthesis methods and instrumental methods of analysis.

Prerequisite: CHEM 230  
Prerequisite or Corequisite: CHEM 315

## **CHEM 440 - Topics in Forensic Chemistry**

**Credit Hours: 1**

A seminar-style course that examines important topics in the field in depth, through readings, discussions, and presentations.

Prerequisite: CHEM 214, CHEM 240

## **CHEM 441 - Forensic Chemistry Laboratory**

**Credit Hours: 3**

Focuses on the practical applications of instrumentation used in a forensic laboratory for the chemical analysis of various types of physical evidence such as accelerants, explosives, paints, fibers, glass, and suspected drug substances.

Prerequisite: CHEM 240  
Prerequisite or Corequisite: CHEM 214

## **CHEM 445 - Topics in Modern Chemistry**

**Credit Hours: 1-3**

Focuses on selected special topics from the chemistry disciplines: analytical, inorganic, organic, physical, or biochemistry. The topics are chosen for their importance to modern chemistry.

Prerequisite: Completion of all curricular requirements for the Chemistry minor.

## **CHEM 454 - Chemistry Seminar and Literature Research**

**Credit Hours: 2**

Involves comprehensive literature research on a chemistry-related topic of the student's choice, and writing of a detailed report on the findings. The course also features oral presentations, as well as the writing of a research proposal on the same topic researched in the literature. In addition, students are required to attend seminars by visiting scientists, organized by the department. All departmental faculty participate in this course.

Prerequisite: CHEM 250  
Co-requisite: CHEM 355

## **CHEM 455 - Chemistry Seminar and Laboratory Research**

**Credit Hours: 4**

An independent experience under the guidance of one or more faculty members, designed to expose students to methods of investigation and inquiry, and enhance critical thinking and problem-solving skills. The course also includes oral presentations and writing of a final scientific paper. In addition, to stay current in the field being

researched, students continue the literature research begun in CHEM 454.

Prerequisite: CHEM 355, CHEM 454

Note: Students are also required to attend a weekly seminar meeting.

### **CHFST 495 - Senior Seminar**

**Credit Hours: 3**

The capstone course for child and family studies majors. The student engages in an in-depth study of a topic that brings together the core and area of specialization and involves a literature review. The topic is selected in consultation with the professor.

### **COMM 101 - Communication Practicum**

**Credit Hours: 1**

Provide laboratory or workshop experiences in speech communication, telecommunications, or interpretation.

Restrictions: maximum of two COMM practica hours per year; maximum of four COMM practica hours toward major or minor.

Note: Registration is with the department chair at final registration.

### **COMM 120 - Introduction to Communication**

**Credit Hours: 3**

Examines concepts and the various disciplines found in communication with emphasis on the centrality of the discipline across a wide variety of contexts and its relevance to society.

Note: This course is offered as an exploratory course for first-year students or students in their first year at Muskingum.

### **COMM 200 - Fundamentals of Speech Communication**

**Credit Hours: 3**

Develops knowledge of the basic principles, types, and theories of communication. It also provides practice in selecting and evaluating speech materials, organizing and phrasing ideas, controlling voice and body, and in critical thinking and listening. Special attention is paid to those students who may have issues with speech apprehension.

### **COMM 201 - Communication Practicum**

**Credit Hours: 1**

Provide laboratory or workshop experiences in speech communication, telecommunications, or interpretation. Registration is with the department chair at final registration.

Restrictions: maximum of two COMM practica hours per year; maximum of four COMM practica hours toward major or minor.

### **COMM 205 - Professional Speaking**

**Credit Hours: 3**

This course is an extension of oral communication skills built in the fundamentals of public speaking course that focuses on successfully addressing a non-classroom audience. The Professional Speaking course provides students with the opportunities to research, design and present impromptu and extemporaneous oral communication messages in preparation for a variety of professional settings and networks.

Prerequisite: COMM 200

**COMM 206 - Voice and Diction****Credit Hours: 3**

Involves intensive drill, on a phonetic basis, in articulating the sounds which make up the English language, with attention to the production of good vocal quality and expression. A study of the history of English sounds gives the student the necessary background to understand how spoken English evolved and to develop skills in use of the International Phonetic Alphabet.

**COMM 207 - Introduction to Speech Pathology****Credit Hours: 3**

Introduces and emphasizes the basic principles of speech language pathologies and audiology. Students learn the causes and origins of speech, language, and audiology processes in human communication.

Prerequisite: Permission of the instructor

**COMM 246 - Interpersonal Communication****Credit Hours: 3**

This course explores the processes of daily interaction dealing with all aspects of strength and weakness in communication situations. Emphasis is on significant relationships with groups, individuals, and self. Students learn to recognize themselves in interpersonal conflict situations and to cope with those problems through class interaction.

**COMM 260 - Oral Interpretation of Literature****Credit Hours: 3**

Deals with the oral re-creation of literature for a specific audience, placing the interpreter as intermediary between the author's intent and the needs of the listener. The interpreter may choose to work with prose, poetry, non-fiction prose or drama.

**COMM 301 - Communication Practicum****Credit Hours: 1**

Provide laboratory or workshop experiences in speech communication, telecommunications, or interpretation.

Restrictions: maximum of two COMM practica hours per year; maximum of four COMM practica hours toward major

or minor.

Note: Registration is with the department chair at final registration.

## **COMM 315 - Argumentation**

### **Credit Hours: 3**

Explores the reasoning process in both theory and practice. Students develop both sides of an argument in classroom debates. A written brief is prepared on a contemporary question which has been researched and debated in class.

Prerequisite: COMM 200

## **COMM 316 - Intercollegiate Forensics**

### **Credit Hours: 2**

Teaches various aspects of speech competition. Students learn how to compete in public address, oral interpretation, limited preparation events, and debate.

Prerequisite: Permission of instructor

Repeatability: May be repeated with a maximum of 6 hours counted toward the major, ten toward graduation requirements.

## **COMM 320 - Introduction to Popular Culture**

### **Credit Hours: 3**

Teaches students about the history, evolution, current trends and practices in United States popular culture. The course emphasizes readings and research that deal with the definition of popular culture, genres of popular culture, history of the discipline of popular culture, as well as the topics of race, gender, body images, celebrities, sports, rituals, formulas, stereotypes, and the myths and beliefs associated with popular culture in the United States.

## **COMM 325 - Communication Theory**

### **Credit Hours: 3**

Examines major theories of communication studies in terms of requirements for theory, theory development and associated research and application.

## **COMM 328 - Health Communication**

### **Credit Hours: 3**

This course explores the concept of health communication, while also emphasizing medical models of communication, patient-provider communication, diversity in healthcare, cultural conceptions of health and illness, gender issues in health and illness, social support, health images in the media, family and end-of-life communication, planning health promotion campaigns, and careers in healthcare and health communication. Additional emphasis is placed on how these topics are best understood as embedded in the American culture and the influence that communication has in health-related environments.

## **COMM 330 - Communication, Sports, and America**

### **Credit Hours: 3**

This course explores the processes of communication in multiple sport environments, including sport fan cultures, sport and mythology, gender communication in sport, race and ethnicity in sport, politics and nationalism in sport, performing identity in sport, family communication and sport, and crisis communication in sports organizations. Emphasis is placed on how these topics are best understood as embedded in the American culture and the influence that sport has on communication processes in multiple contexts.

## **COMM 335 - Small Group Communication**

### **Credit Hours: 3**

Examines the principles and forms of small group interaction with emphasis on problem solving and cooperative and reflective thinking.

## **COMM 340 - Gender Communication**

### **Credit Hours: 3**

Focuses on gender issues in the field of communication. Specific areas that are studied include the history of men's and women's movements, gender-related theories, and gender differences in various areas, such as nonverbal communication, verbal communication, interpersonal communication, music videos, advertising, film and television.

## **COMM 345 - Interviewing**

### **Credit Hours: 3**

Provides instruction and practice in the forms of communication most often utilized in the business and professional world. Emphasis is divided between eliciting and providing information in settings most common to the business and professional world.

## **COMM 355 - Organizational Communication**

### **Credit Hours: 3**

Introduces theoretical and practical approaches to communication within an organization. The course emphasizes the history of communicating in business settings and possible choices for approaches to communicating with others in professional venues.

## **COMM 360 - Research Methods**

### **Credit Hours: 3**

Develops the research skills necessary to complete the senior communication research project. Open to communication majors and minors in the spring of their first or second year.

Prerequisite: COMM 325 or theatre major

## **COMM 395 - Special Topics in Communication**

**Credit Hours: 3-6**

Provides the opportunity to study selected areas, such as popular culture, storytelling, and communication technologies.

Repeatability: Maybe repeated once for credit as content changes.

## **COMM 401 - Communication Practicum**

**Credit Hours: 1**

Provide laboratory or workshop experiences in speech communication, telecommunications, or interpretation.

Restrictions: maximum of two COMM practica hours per year; maximum of four COMM practica hours toward major or minor.

Note: Registration is with the department chair at final registration.

## **COMM 495 - Seminar**

**Credit Hours: 3**

Exposes students to an intensive study in a selected area of emphasis. The first four weeks are devoted to the development of a project prospectus. The remainder of the semester is given to independent study under the guidance of an appropriate instructor.

Prerequisite: COMM 360

## **CPSC 100 - Introduction to Computer Science**

**Credit Hours: 3**

Presents an overview of fundamental computer science topics and an introduction to computer programming. Overview topics include an introduction to computer science and its history, computer hardware, operating systems, digitization of data, computer networks, Internet and the Web, security, privacy, AI, and databases. This course also covers variables, operators, while loops, for loops, if statements, top down design (functional decomposition), use of an IDE, debugging, and arrays.

## **CPSC 111 - Computer Science I**

**Credit Hours: 3**

Provides more in-depth programming, including software engineering topics such as unit testing and the use of version control. Basic data structures covered include arrays, lists, sets, and maps. Basic algorithm efficiency concepts are covered along with simple searching and sorting. Other techniques such as graphical user interface programming, exceptions, recursion, designing classes (no inheritance), file input/output are covered. Design techniques such as encapsulation and UML diagramming are covered.

Prerequisite: CPSC 100

## **CPSC 120 - Computer Applications**

**Credit Hours: 1**

Consists of a series of projects to explore the use of specific application software packages.

Prerequisite: CPSC 100 or equivalent

**CPSC 211 - Computer Science II****Credit Hours: 3**

Provides yet more in-depth programming, including software engineering topics, such as Model-View-Controller design and more formalized unit testing. Additional data structures covered include stacks, queues, priority queues, trees, graphs, and hash tables. Object-oriented programming is introduced, along with associated UML diagramming techniques. Java Generics are covered.

Prerequisite: CPSC 111

**CPSC 220 - Applied Computer Programming****Credit Hours: 3**

Studies with each offering a particular computer programming language (e.g., C++, Python, PHP, COBOL, Java, and Perl) and the applications in which that language is traditionally used.

Prerequisite: CPSC 111 or permission of instructor

**CPSC 230 - Systems Programming****Credit Hours: 3**

Provides an understanding of the interface between computer hardware and software. The course covers computer hardware, activation records and address spaces, a practical assembly language (like ARM), writing C programs, how C code is compiled into assembly level programs, and how these programs are compiled, linked, and loaded into memory. This course also provides an understanding of Linux/Unix administration fundamentals, including user creation, permissions, installations from source, and simple server configuration.

Prerequisite: CPSC 111

**CPSC 320 - Algorithm Analysis****Credit Hours: 3**

Examines formal concepts of algorithm efficiency including Big O, Theta, and NP theory. Algorithmic techniques studied include brute force, simulation, divide and conquer, dynamic programming, greedy algorithms, backtracking, branch and bound, and parallel algorithms. Time and space efficiency is analyzed from a practical and theoretical viewpoint throughout this course. Advanced searching and sorting techniques are covered. Classic algorithms and their relevance to real problems are examined. Typical data structures used as examples include hash tables, trees, and graphs. Parallel programming is explored.

Prerequisite: CPSC 211, MATH 250



## **CPSC 335 - Computer Security**

### **Credit Hours: 3**

Covers operating system and network level security topics. Typical application level attacks such as buffer overruns are analyzed and solutions covered. This course includes basic coverage of TCP/IP and cryptography in the context of network security. Typical network attacks such as denial-of-service, spoofing, etc. are covered, as are systems administration level analysis of possible attacks and intrusions via Linux logs.

Prerequisite: CPSC 230

## **CPSC 340 - Programming Languages**

### **Credit Hours: 3**

Develops the concepts of language structure and uses these as a basis for comparing several languages. Formal language definitions are introduced, and the concepts of syntax, semantics, and pragmatics are discussed. The emphasis is on languages with inherently different programming paradigms than students have been exposed to in other courses.

Prerequisite: CPSC 211

## **CPSC 345 - Mobile Application Development**

### **Credit Hours: 3**

Practices the development of mobile applications. Design considerations specific to mobile applications are covered, including limited resources, battery life, intermittent connectivity, etc. Also covered are the networking concepts needed to connect mobile applications to web-based servers, and to use third party APIs such as Google Maps, location-based programming, etc. Projects are done in the context of one or more popular mobile platforms, such as Android and iOS.

Prerequisite: CPSC 230, CPSC 365

## **CPSC 350 - Computer Architecture**

### **Credit Hours: 3**

Studies the theoretical and practical design principles of computer organization. The performance effects of pipelining, superscalar design, VLIW, and parallel processing are examined.

Prerequisite: CPSC 211

## **CPSC 365 - Web Applications and Database Management Systems**

### **Credit Hours: 3**

Studies and practices the development of dynamic data-driven web applications, in the context of the languages and technologies used in typical shared hosting environments. Topics include database design, including entity-relationship modeling and normalization, designing and implementing data models for a web application, developing the server side code necessary to interact with that data model, developing the web pages for the application, and an introduction to the use of dynamic scripting on the client side. Web application security is covered throughout.

Prerequisite: CPSC 111

## **CPSC 400 - Programming Projects**

**Credit Hours: 1**

Enables students to design, implement, and test a program of their own choosing. Proposed projects are approved by a faculty member who then meets with the student on a weekly basis. A final report is prepared and presented at the completion of the project.

Prerequisite: Permission of the instructor

Repeatability: The course can be repeated once for credit.

## **CPSC 430 - 3D Game Programming**

**Credit Hours: 3**

Examines the basic issues in 3D rendering and collision detection and associated algorithms, suitable for programming a 3D game engine. Students explore data structures used for 3D games. Basic artificial intelligence techniques used in games are also covered in the context of a 3D game engine.

Prerequisite: CPSC 320, MATH 230

## **CPSC 450 - Operating Systems**

**Credit Hours: 3**

Examines the major operating system concepts in the context of modern operating systems such as UNIX, Linux, and Windows. Topics include process management, synchronization, memory management, file systems, protection and security. Topics are examined from both the operating system and programmer perspectives. In addition, the course discusses more advanced system administration topics.

Prerequisite: CPSC 230, CPSC 320

## **CPSC 455 - Software Engineering**

**Credit Hours: 3**

Formalizes the software engineering topics covered in previous courses, in the context of what would be required in a real-world corporate environment. Typical software development methodologies are discussed (e.g. waterfall, agile, test-driven design, etc.). UML Diagramming are covered. Students work in teams, analyze requirements, participate in code reviews, etc. Human Computer Interaction fundamentals are covered, along with ethical and social issues related to the business of computing. The different roles involved with large scale development are discussed.

Prerequisite: CPSC 211

## **CPSC 480 - Computer Networks**

**Credit Hours: 3**

Examines the fundamental aspects of computer networks. Topics include layered network architecture, application level protocols, transport protocols, routing and flow control mechanisms, data link protocols, wireless networks, protocol design, and client-server programming. In addition, this course introduces techniques for designing and building a complex computer network.

Prerequisite: CPSC 230, CPSC 320

## **CPSC 490 - Advanced Topics in Computer Science**

**Credit Hours: 3**

Is a study of a specialized topic in the computing field, such as Animation, Pattern Recognition, Networking, Theory of Computation, Alife, or advanced study of a particular language (such as Java, C++, Perl, or VRML)

Prerequisite: Permission of the instructor

## **CPSC 495 - Computer Science Seminar**

**Credit Hours: 1**

Provides a weekly discussion of new advances in the field of computer science and their effects on society. Presentations are given by invited speakers, faculty, and students.

Prerequisite: Permission of the instructor

Repeatability: The course can be repeated once for credit.

## **CRMJ 101 - Introduction to Criminal Justice**

**Credit Hours: 3**

Serves as a broad overview to the criminal justice field by examining such topics as criminal behavior and law enforcement, the court system and judicial processes, and corrections and rehabilitation.

## **CRMJ 230 - American Law Enforcement**

**Credit Hours: 3**

Discusses the philosophy and history of policing, the different types of police agencies, and the framework in which law enforcement agencies must work, as well as the relationship between police agencies and their communities.

Prerequisite: CRMJ 101

## **CRMJ 240 - Introduction to Research Methods**

**Credit Hours: 3**

This course covers the basics of a cross-section of research methods used in Criminal Justice, Political Science, and the other sciences. The research methods covered include a basic quantitative method, a qualitative method, and components of conducting a literature review. Students will learn problem formulation, hypothesis construction, and hypothesis testing. The course emphasizes the consumption of social science research and research methods skill development to be used in upper level Criminal Justice and Political Science courses.

Cross Listed As: POLS 240.

## **CRMJ 250 - American Courts**

### **Credit Hours: 3**

Focuses on the legal concepts comprising the foundation of the American criminal court process, state and federal court systems, courts of limited and general jurisdiction, the actors within the court system, and the role of the courts on the other members of the criminal justice system.

Prerequisite: CRMJ 101

## **CRMJ 270 - American Corrections**

### **Credit Hours: 3**

Uses a sociological perspective to examine the history, institutions, and practice of American corrections; specifically, issues of incarceration, probation, prisoner release, and criminal justice are covered.

Prerequisite: CRMJ 101

Cross Listed As: SOCI 270.

## **CRMJ 331 - Criminal Investigation**

### **Credit Hours: 3**

Focuses on the methods of crime scene searches and documentation; physical evidence collection and preservation; information gathering; interviews and interrogations and case preparation.

Prerequisite: CRMJ 101 and CRMJ 230

## **CRMJ 340 - Organized Crime**

### **Credit Hours: 3**

Focuses on illegal organizations (e.g., the Mafia), whose formally organized activities are used to gather money through criminal enterprises and how they impact American society, including the social and economic effect on society, along with law enforcement efforts to minimize that impact.

## **CRMJ 342 - Criminology**

### **Credit Hours: 3**

Examines various theories of crime causation, their history and development, and related crime control policies and practices. It also addresses the extent of crime in society, types of crime, and crime measurement issues. Emphasis is on the social context of crime and supportive evidence of various theoretical perspectives.

Prerequisite: CRMJ 101

## **CRMJ 344 - Criminal Procedure and Law**

**Credit Hours: 3**

Involves the convergence of law enforcement, courts, legislation, and the Constitution. Students study constitutional rights of individuals and limitations on police authority as interpreted by the courts. Additionally, students study crime definitions and elements of crime as written by legislatures and interpreted by courts. Substantive law of Ohio is emphasized.

Cross Listed As: POLS 313

**CRMJ 372 - Juvenile Justice****Credit Hours: 3**

Examines the juvenile justice system, including differences between the adult justice system based on values, court decisions and laws. The concepts of delinquency and delinquency control are discussed, as well as the roles of law enforcement, courts, and corrections in the juvenile justice system.

**CRMJ 373 - Community Corrections and Intermediate Sanctions****Credit Hours: 3**

Examines the policies, procedures, practices, and personnel involved in community-based corrections. Alternatives to incarceration are emphasized in their historical, philosophical, social, and legal contexts. Students discuss current issues and trends in this growing area of the criminal justice system.

Prerequisite: CRMJ 101

**CRMJ 376 - Child Maltreatment****Credit Hours: 3**

Examines the typologies and complexities of child maltreatment. Students investigate the development of the modern child welfare system as well as risk factors for and consequences of child maltreatment. Different forms of child maltreatment - including physical abuse, neglect, sexual abuse, fetal abuse, and Munchausen by Proxy Syndrome - are examined. Students explore mandated reporting requirements, investigating maltreatment reports, court proceedings, and forensic interviewing of children.

**CRMJ 390 - Topics in Criminal Justice****Credit Hours: 3**

Provides students with a semester-long intensive study of a topic in criminal justice under the supervision of department faculty.

**CRMJ 396 - Applied Research Methods in Criminal Justice****Credit Hours: 3**

This course introduces the concepts involved in social science research, with a focus on criminal justice and criminological issues. Students develop an understanding of the methods and techniques used to describe, explain, predict and evaluate research issues. Emphasis is placed on developing informed consumers of research.

Note: Must have junior standing.  
MAP Only: X

## **CRMJ 490 - Senior Seminar**

### **Credit Hours: 3**

Students in this team-taught course complete a mini-research project (individual or team-based depending on the type of research being conducted) for each of the four interrelated topics, and practice multiple ways of conducting research and answering questions. The unifying theme is the integration of knowledge. Students approach problems from different disciplinary perspectives, solve them in differentiated ways, and demonstrate how the knowledge they have gained in their major courses can be applied in multiple and diverse settings.

Prerequisite: CRMJ 240 or POLS 240

## **CRMJ 491 - Student/Faculty Collaborative Research in Criminal Justice**

### **Credit Hours: 3**

Students work directly with a faculty member on a professional project that will result in a product that engages with the professional community. The final project/paper will list both the faculty member and the student(s) as co-authors.

Prerequisite: Instructor permission only

## **CVSC 231 - Conservation Science Discussion**

### **Credit Hours: 1**

Presentation and discussion of important conservation issues in conservation science.

Note: Conservation science majors must take this course or CVSC 431 at least once.

Repeatability: May be repeated for credit.

## **CVSC 331 - Conservation Biology**

### **Credit Hours: 4**

Provides an in-depth examination of the major issues and challenges that define Conservation Science. The course places a great deal of emphasis on exploring the role and limitations of science in addressing contemporary conservation problems.

Note: The course design includes lecture, laboratory, and field trips.

## **CVSC 431 - Topics in Conservation Science**

### **Credit Hours: 1**

Seminar course that uses readings from recently published articles and focused discussion to explore important conservation issues.

Note: Conservation science majors must take this course or CVSC 231 at least once.  
Repeatability: May be repeated for credit.

### **CVSC 437 - Conservation Science Research Seminar I**

**Credit Hours: 3**

Involves a discussion of a series of scientific papers covering a conservation topic. In addition, students search the biological literature related to the topic, prepare two literature reviews, and submit a scholarly research proposal at the end of the semester.

Prerequisite: CVSC 331 or permission of instructor

### **CVSC 438 - Conservation Science Research Seminar II**

**Credit Hours: 2**

Involves field, laboratory, or library research on a conservation problem.

Prerequisite: CVSC 437

### **CVSC 439 - Conservation Science Research Seminar III**

**Credit Hours: 2**

Involves field, laboratory, or library research on a conservation problem.

Prerequisite: CVSC 438

### **DMD 101 - Digital Media Design Practicum**

**Credit Hours: 1**

Provides laboratory or workshop experiences in digital media design.

Restrictions: maximum of two DMD practica hours per year. Does not count toward the requirement of the DMD major.

### **DMD 201 - Digital Media Design Practicum**

**Credit Hours: 1**

Provides laboratory or workshop experiences in digital media design.

Restrictions: maximum of two DMD practica hours per year. Does not count toward the requirement of the DMD major.

### **DMD 301 - Digital Media Design Practicum**

**Credit Hours: 1**

Provides laboratory or workshop experiences in digital media design.

Restrictions: maximum of two DMD practica hours per year. Does not count toward the requirement of the DMD major.

## **DMD 395 - Topics in Digital Media Design**

### **Credit Hours: 3**

Provides the opportunity for upper level students to study advanced areas in digital media not offered as formal courses. Such topics could include, but are not limited to, dynamic website design, web 2.0 applications, and game design.

## **DMD 398 - Directed Design Project**

### **Credit Hours: 3**

Gives students the opportunity to propose, plan and execute a client-based project in design. Projects can include, but are not limited to, graphic and logo design, website design and implementation, or interactive applications. The classroom component covers workplace communication, negotiation of expectations and deadlines, and evaluation of outcomes. The workplace component includes client meetings and in-studio work hours.

Prerequisite: MEDIA 300, ART 170, or permission of the instructor.

## **DMD 399 - Internship**

### **Credit Hours: 3**

Involves a supervised experience in the student's major. The program is closely supervised by faculty members and an on-site director. Credit in 399 counts as 3 of the 16 internship hours which may be applied to graduation requirements. Graded S/U.

Prerequisite: Junior standing, 2.5 GPA and instructor permission.  
Cross Listed As: JOURN 399, MEDIA 399, PBRL 399.

## **DMD 400 - Principles of Interactive Design**

### **Credit Hours: 3**

Provides a survey of research literature surrounding the emergent concept of interactivity in mediated environments. Students develop awareness of the opportunities and complexities that interactive potential can add to traditional media designs. Emphasis is placed on identifying and meeting the needs of the end-user when developing interactive experiences. Students have the opportunity to use multimedia software applications to present their designs.

Prerequisite: MEDIA 300

## **DMD 401 - Digital Media Design Practicum**

### **Credit Hours: 1**

Provides laboratory or workshop experiences in digital media design.



Restrictions: maximum of two DMD practica hours per year. Does not count toward the requirement of the DMD major

### **DMD 495 - Seminar**

**Credit Hours: 3**

Exposes students to an intensive study in a selected area of emphasis. The first four weeks are devoted to the development of a project prospectus. The remainder of the semester is given to independent study under the guidance of an appropriate instructor.

Prerequisite: DMD 400

### **ECON 215 - Principles of Microeconomics**

**Credit Hours: 3**

Concentrates attention on the determination of prices for goods and factors of production.

### **ECON 216 - Principles of Macroeconomics**

**Credit Hours: 3**

Presents a general description of the American economy and the theory of income determination and income fluctuations.

Prerequisite: ECON 215

### **ECON 311 - Money and Banking**

**Credit Hours: 3**

Examines the role of money in the economy, the instruments of monetary and fiscal policy, and the techniques of commercial banking, the Federal Reserve System, interest rates and institutions affecting the money market.

Prerequisite: ECON 215, ECON 216

### **ECON 314 - Public Finance**

**Credit Hours: 3**

Surveys government income, expenditures, and transfer payments at the local, state, and national levels. Particular attention is given to fiscal policy, problems of taxation and incentives, and principles of debt management.

Prerequisite: ECON 215, ECON 216 or permission of instructor

### **ECON 333 - Intermediate Microeconomic Theory**

**Credit Hours: 3**

Develops the methodology of economics and uses this to provide explanations about pricing of commodities and employment of factor services under conditions of full employment.

Prerequisite: ECON 215, ECON 216

## **ECON 334 - Intermediate Macroeconomic Theory**

**Credit Hours: 3**

Examines the relationships among the aggregate markets for commodities, money, bonds, and labor. Emphasis is placed on analytical explanations for the determination of national income, output, employment, interest rates, and the price level.

Prerequisite: ECON 215, ECON 216

## **ECON 361 - International Trade**

**Credit Hours: 3**

Examines the reasons for and gains from trade among nations, as well as the impact of trade restrictions.

Prerequisite: ECON 215, ECON 216, or permission of instructor

## **ECON 362 - International Finance**

**Credit Hours: 3**

Examines monetary exchange rates, the balance of payments, capital flows, and the impact of international activity on domestic economies.

Prerequisite: ECON 215, ECON 216, or permission of instructor

## **ECON 411 - Topics in Economics**

**Credit Hours: 3**

Provides the advanced student an opportunity to study selected topics in economic theory.

Prerequisite: ECON 215, ECON 216

Repeatability: The course may be repeated as the subject matter changes.

## **ECON 423 - Contemporary Issues**

**Credit Hours: 3**

Covers current issues in macroeconomic or microeconomic policy, with emphasis changing with each offering. Students are given the opportunity to explore applications of basic economic theory and models to help understand such issues as monetary policy, the role of the Federal Reserve, tax policy, unemployment, social security, and Medicare reform. A specific list of subjects to be covered will be made available with each course listing.

Prerequisite: ECON 215, ECON 216

## **ECON 425 - Econometrics**

### **Credit Hours: 3**

Involves the empirical testing of economic hypotheses using, primarily, linear regression. The results can be used to determine how closely theory corresponds to observed behavior, to investigate which theories best explain behavior and to forecast what future conditions may produce. This course is designed to introduce students to basic econometric techniques. Possible remedies to the most frequently encountered problems are also discussed.

Prerequisite: A minimum grade of C in BUSI 325

## **ECON 435 - Government and Business**

### **Credit Hours: 3**

Considers the role of government in the American economy and examines contemporary governmental policies toward the private sector of the economy from both a legal and an economic viewpoint. The main topics are the enforcement of anti-trust in the unregulated sector and the improved regulation of industries subject to government controls.

Prerequisite: ECON 215, ECON 216, or permission of instructor

## **ECON 495 - Seminar**

### **Credit Hours: 3**

Enables the student to pursue an approved research project in economic theory.

Prerequisite: ECON 333

## **EDUC 101 - Observe and Reflect Practicum**

### **Credit Hours: 1**

This is a clinical field experience course required for teacher education licensure. Students will work with a partner school to explore the structure and organization of local school agencies, observe the creation and importance of school culture and climate, discuss the roles and responsibilities of various individuals reporting to the school each day, and participate in curricular and extracurricular activities designated by the partner site. A valid background check is required.

## **EDUC 110 - Introduction to Education**

### **Credit Hours: 1**

This course studies the purposes and practices of education, helping students determine whether they wish to become professional teachers. Topics include history of education, careers in education, motivation and discipline, analysis of teacher behavior, organization and goals of schools, the teacher, and the law.

## **EDUC 112 - Educational Implications of Diversity**

### **Credit Hours: 3**

Presents a picture of the increasing diversity found within educational institutions and the implications it has for educators in developing both policy and practice.

Prerequisite or Corequisite: EDUC 110, or child and family studies major, or MUSC 181.

Note: Required field experience: 12 hours of observation and 10 hours of tutoring.

## **EDUC 201 - Observe, Assist, Tutor, and Remediate Practicum**

**Credit Hours: 1**

This is a clinical field experience course required for teacher education licensure. Students will work with a partner school to observe instruction in a variety of contexts and grouping patterns. Students will have the opportunity to work with students with a variety of ability levels and subject areas. Students are expected to observe and apply concepts from education coursework to assist the teacher, tutor, and remediate students as directed by the field teacher(s)

Prerequisite: EDUC 101

## **EDUC 211 - Individual Topics**

**Credit Hours: 1-3**

Is a supervised clinical field, research, or independent study in education under the direction of a faculty member. It is designed to enable students to have learning experiences that extend beyond required coursework. The course requires periodic meetings with the course instructor, the writing of a journal, and a final written report, in addition to 30-35 hours of field or clinical work for each credit hour.

Prerequisite: EDUC 110, EDUC 112

## **EDUC 215 - Educational Psychology**

**Credit Hours: 3**

This course is the study of how individuals learn by drawing on and combining various psychological theories and principles to improve teaching and learning. This course will examine the scientific study of human learning from both the cognitive and behavioral perspectives. It promotes the understanding of individual differences, intelligence, development, affect, motivation, self-regulation and self-concept. Educational psychology helps future teachers create a positive socio-emotional climate for effective learning.

## **EDUC 220 - Mathematics Content for Early Childhood and Intervention Specialist Teachers**

**Credit Hours: 3**

Develops knowledge and skills in number sense, measurement, data, statistics, probability, algebra, and geometry concepts that relate to the K-12 Ohio Learning Standards in mathematics.

## **EDUC 301 - Teach Large Groups, Tutor, Remediate, and Accelerate Practicum**

**Credit Hours: 1**

This is a clinical field experience course required for teacher education licensure. Students will work with a partner

school to learn how to implement evidence-based strategies, content techniques, and high leverage practices in various settings. Students are expected to design and lead individual, small group, and whole class instruction with the guidance of the coordinating teacher and faculty mentor(s). A valid background check is required.

Prerequisite: EDUC 201

## **EDUC 309 - Early Childhood Education and Curriculum**

### **Credit Hours: 3**

Provides students with the historical, philosophical, psychological, and social foundations of early childhood education. It also provides the curricular and instructional framework for providing meaningful, developmentally appropriate learning experiences, and accommodations for diverse populations of children in grades PreK to 5. This course includes direct interaction with both typically and atypically developing preschoolers.

Co-requisite: EDUC 201

Prerequisite or Corequisite: PSYC 205, PSYC 220

Note: Required field hours: 10.

## **EDUC 311 - Individual Topics**

### **Credit Hours: 1-3**

Is a supervised clinical field, research, or independent study in education under the direction of a faculty member. It is designed to enable students to have learning experiences that extend beyond required coursework. The course requires periodic meetings with the course instructor, the writing of a journal, and a final written report, in addition to 30-35 hours of field or clinical work for each credit hour.

Prerequisite: EDUC 110, EDUC 112 and admission to the teacher education program.

## **EDUC 312 - Developmentally Responsive Middle Schools**

### **Credit Hours: 3**

Provides comprehensive understanding of the nature and needs of early adolescents in grades 4-9 with an emphasis on applying this knowledge to the classroom and the total school environment. The course focuses on characteristics of developmentally responsive schools for young adolescents, as well as the rationale that supports such characteristics. Topics include interdisciplinary teaming, teacher guidance programs, grouping and scheduling concerns, curriculum, pedagogy assessment strategies for culturally and developmentally diverse students, and the application of educational technology.

Prerequisite: Admission to the teacher education program

Co-requisite: EDUC 301

Note: Required field hours: 20

## **EDUC 313 - Curriculum and Instruction for the Adolescent**

### **Credit Hours: 3**

Provides a foundation in curriculum and instruction for adolescent and young adults with emphasis on motivation, instructional planning, classroom structure, management, discipline, models of teaching, assessment, and learning styles.

Prerequisite: Admission to the teacher education program

Co-requisite: EDUC 301

Note: Required field hours: 20.

## **EDUC 314 - Multi-Age Curriculum and Instruction**

### **Credit Hours: 3**

Provides a foundation in curriculum and instruction for teachers of multi-age subject areas, i.e., foreign language, music, physical education and visual arts.

Co-requisite: EDUC 201

Note: Required field hours: 30.

## **EDUC 315 - The Arts in Early Childhood**

### **Credit Hours: 3**

Is designed to provide the knowledge, skills, and dispositions required to effectively integrate art, music, movement, and theater into developmentally appropriate curriculum and instruction for young children. The course balances theory and practice, presenting the arts both as a means of enhancing the development of young children, and as the promotion of creativity and exploration.

Prerequisite: EDUC 309

## **EDUC 316 - Children's Literature**

### **Credit Hours: 3**

Involves the study of classic and contemporary children's literature in a variety of genres. Emphasis is placed on the selection and use of high-quality and developmentally-appropriate materials to support the reading process.

Prerequisite: Admission to the teacher education program

## **EDUC 330 - Serving Individuals with Exceptionalities**

### **Credit Hours: 3**

Investigates the nature and needs of individuals with exceptionalities across the lifespan, the etiologies of different exceptionalities, the identification process, and the continuum of placement and service alternatives. An emphasis is placed on the need of the intervention specialist to collaborate with other professionals to develop individualized education programs that enable learners to be successful in their least restrictive environments and to access services needed for learner independence. Ten hours of clinical experiences with individuals with different exceptionalities are required.

Prerequisite: EDUC 110 and admission to the teacher education program

Co-requisite: EDUC 201

## **EDUC 334 - Family-Centered Practices**

**Credit Hours: 3**

Develops the knowledge and skills needed to provide appropriate educational opportunities for children in the context of family, community, and social service structures. This course emphasizes the development of communication and collaboration skills needed to interact effectively with parents, family services, and community agencies and to provide transition services across age levels. Technologies designed to promote successful communication are utilized. Also included are direct interactions with students with disabilities and their families as well as with community agencies and school-based programs serving students grades PreK to 5 through specific field experiences.

Prerequisite: EDUC 309, EDUC 330, or Child and Family Studies major.

Co-requisite: EDUC 201

Field Hours Requirement: Required field experience: 20 hours.

**EDUC 335 - Educational Technology****Credit Hours: 3**

Develops knowledge and skills to integrate technology effectively into the classroom to support teachers in instruction, delivery, assessment, intervention and adaptation. This course is based on the National Education Technology Standards and the Ohio Technology Academic Content Standards.

Prerequisite: EDUC 110 and admission to the teacher education program

**EDUC 340 - Nature and Needs of Students with Disabilities****Credit Hours: 3**

Provides an in-depth examination of the state and federal legislation, policies, and procedures that define the field of special education. The learning, emotional, behavioral, adaptive, and medical characteristics and needs of students with disabilities and dual exceptionalities are explored in detail. Learner strengths and challenges are addressed from a variety of perspectives, with emphasis placed on assistive technology, English language learning, access to the general curriculum, lifelong learning, and personal advocacy.

Prerequisite: EDUC 330

Co-requisite: EDUC 301

Field Hours Requirement: Required field experience: 20 hours.

**EDUC 341 - Assessment in Education****Credit Hours: 3**

Explores the variety of roles that assessment plays in P-12 education. The course includes basic assessment principles, response to intervention (RTI), quantitative data analysis, the assessment teaching cycle, formative and summative assessment. Value-added dimensions of assessment are presented and related to candidates' licensure areas and the Ohio Teacher Education System (OTES). Also addressed are aspects of assessment related to providing inclusive services to students with exceptionalities, including making accommodations and modifications and using relevant assistive technology

Prerequisite: Admission to the teacher education program

Prerequisite or Corequisite: EDUC 330

Field Hours Requirement: Required field experience: 20 hours.

## **EDUC 362 - Integrating Language Arts and Social Studies in Early Childhood**

### **Credit Hours: 3**

Develops the knowledge and skills necessary to provide effective instruction based on Ohio's Learning Standards in language arts and social studies to diverse populations of children in grades PreK to 5 in inclusive settings.

Prerequisite: Admission to the teacher education program and EDUC 309 or EDUC 314 for special education programs.

Co-requisite: EDUC 301

Field Hours Requirement: Required field experience: 10 hours.

## **EDUC 366 - Mathematics in Early Childhood Education**

### **Credit Hours: 3**

Develops the knowledge and skills necessary to provide developmentally appropriate and effective instruction based on Ohio's Learning Standards in math to diverse populations of children in grades PreK to 5 in inclusive settings.

Prerequisite: Admission to the teacher education program and EDUC 309 or EDUC 314 for special education majors.

Co-requisite: EDUC 301

Field Hours Requirement: Required field experience: 10 hours.

## **EDUC 367 - Science in Early Primary Education**

### **Credit Hours: 3**

Develops the knowledge and skills necessary to provide developmentally appropriate and effective instruction based on the Ohio Academic Content Standards in science to diverse populations of young children in inclusive settings.

Prerequisite: Admission to the teacher education program and EDUC 309 (or EDUC 309 or EDUC 312 or EDUC 313 or EDUC 314 for special education majors).

Co-requisite: EDUC 301

Field Hours Requirement: Required field experience: 10 hours.

## **EDUC 368 - Integrated Sciences for Early Childhood Instruction Grades 4-5**

### **Credit Hours: 3**

The purpose of this course is to prepare individuals with the knowledge and skill to be able to effectively instruct science in grades 4-5. Teacher candidates will be able to tailor science instruction for learners with disabilities, English language learners and gifted students

Prerequisite: EDUC 367

Field Hours Requirement: Required field experience: 20 hours.

## **EDUC 370 - Phonics and the Process of Reading**

### **Credit Hours: 3**

This course provides a scientifically based foundation on literacy and language development to teach the fundamental



principles of language structure. The course presents research foundations needed to understand how reading develops and effective methods and strategies used to teach literacy skills to young children through young adults. The course presents two of the key components of reading instruction (phonemic awareness and phonics) and an introduction to essential elements of effective literacy instruction to teach key knowledge and skills in the reading process as grounded in the science of reading. Students also explore the correlation between these essential components of reading and research-based instructional methods for diverse learners.

Prerequisite: Admission to the teacher education program

## **EDUC 371 - Emergent through Adolescent Literacy**

### **Credit Hours: 3**

This course focuses on the research, theories, and methods used for supporting language arts and literacy development across grades PK-12. Specific emphasis is placed on key scientifically based reading foundations that provide effective instruction and intervention strategies for emergent, beginning, and adolescent readers with diverse learning needs. Candidates explore research-based teaching strategies and curriculum that require a balance of literacy instruction formats. Additional emphasis is placed on strategies and techniques for strengthening writing skills of diverse learners and the integration of educational technology.

Prerequisite: EDUC 370

Co-requisite: EDUC 301

Field Hours Requirement: Required field experience: 10 hours.

## **EDUC 372 - Reading Methods for Middle Childhood**

### **Credit Hours: 3**

Focuses on the research, methods, and materials appropriate for teaching reading to diverse learners in grades 4-9. Emphasis is on integrated curriculum strategies including knowledge, selection, and use of high quality children's literature. Includes use of phonics and word study instruction as appropriate for the young adolescent reader, as well as study of the nature of the English language.

Prerequisite: EDUC 370

Field Hours Requirement: Required field experience: 20 hours.

## **EDUC 375 - Professional Practices in Mathematics**

### **Credit Hours: 3**

Focuses on participation in professional mathematics organizations, the use of technology in the mathematics classroom, mathematics education research including best practices, and Euclidean geometry.

Prerequisite: Admission to the teacher education program

## **EDUC 378 - Diagnostic and Corrective Math Methods**

### **Credit Hours: 3**

This course provides ISMM pre-service candidates a survey of diagnostic and corrective methods based on typical student error patterns in the field of mathematics. This course will focus on topic development, error patterns, diagnosing conceptual misunderstandings, and assessment in mathematics.

## **EDUC 382 - Social Studies Methods for Middle Childhood Educators**

### **Credit Hours: 3**

Develops knowledge and skills necessary to provide instruction based on national social studies standards and state curriculum models for students in grades 4-9, with an emphasis on the use of a variety of instructional approaches for culturally and developmentally diverse classrooms. The course prepares students to utilize approaches to teaching and learning which integrate content relevant to students' lives, honor individual differences, and teach basic skills of inquiry and communication, including the application of educational technology.

Prerequisite: EDUC 309 or EDUC 312 (or EDUC 313 or EDUC 314 for special education majors)

Co-requisite: EDUC 301

Field Hours Requirement: Required field experience: 20 hours.

## **EDUC 383 - Language Arts Methods for Middle Childhood Educators**

### **Credit Hours: 3**

Develops knowledge and skills necessary to provide instruction based on national language arts standards and state curriculum models for students in grades 4-9 with an emphasis on use of a variety of instructional approaches appropriate for culturally, linguistically, and developmentally diverse classrooms. The course prepares students to utilize approaches to teaching and learning which integrate reading, speech, writing, and literature with the broader curriculum, develop literacy skills relevant to students' lives, honor individual differences, and teach basic skills of communication, including the application of education technology.

Prerequisite: EDUC 312 (or EDUC 309 or EDUC 313 or EDUC 314 for special education majors)

Co-requisite: EDUC 401

Field Hours Requirement: Required field experience: 20 hours.

## **EDUC 384 - Science Methods for Middle Childhood Educators**

### **Credit Hours: 3**

Provides knowledge and skills necessary to provide science instruction consistent with national and state curriculum models for students in grades 4-9 with an emphasis on the use of a variety of instructional approaches appropriate for culturally and developmentally diverse classrooms. The course prepares students to utilize approaches to teaching and learning which integrate content relevant to student's lives, honor individual differences, and teach basic skills of inquiry and communication, including the application of educational technology.

Prerequisite: EDUC 312 (or EDUC 309 or EDUC 313 or EDUC 314 for special education majors)

Field Hours Requirement: Required field experience: 20 hours.

## **EDUC 385 - Math Methods for Middle Childhood Educators**

### **Credit Hours: 3**

Provides knowledge and skills necessary to provide math instruction consistent with national and state math curriculum models to students in grades 4-9 with an emphasis on the use of a variety of instructional approaches appropriate for culturally and developmentally diverse classrooms. The course prepares students to utilize approaches to teaching and learning which integrate content relevant to students' lives, honor individual differences, cultivate skills in recognizing and solving problems and provide awareness of relevant teaching tools, including manipulative materials and educational technology.

Prerequisite: EDUC 312; (EDUC 309 or EDUC 312 or EDUC 313 or EDUC 314 for special education majors)

Co-requisite: EDUC 301

Field Hours Requirement: Required field experience: 20 hours.

## **EDUC 391 - Integrated Language Arts Methods for the Adolescent**

### **Credit Hours: 3**

Focuses on special methods of teaching language arts in grades 7-12 with emphasis on integrated and interdisciplinary instruction, adaptations for learners with special needs, content specific reading strategies and applications of educational technology, and the Ohio Academic Content Standards.

Prerequisite: EDUC 313

Co-requisite: EDUC 301

Field Hours Requirement: Required field experience: 20 hours.

## **EDUC 392 - Integrated Math Methods for the Adolescent**

### **Credit Hours: 3**

Focuses on special methods for teaching mathematics in grades 7-12 with emphasis on integrated and interdisciplinary instruction, adaptations for learners with special needs, content specific reading strategies and applications of educational technology, and the Ohio Academic Content Standards.

Prerequisite: EDUC 313

Co-requisite: EDUC 301

Field Hours Requirement: Required field experience: 20 hours.

## **EDUC 394 - Integrated Science Methods for the Adolescent**

### **Credit Hours: 3**

Focuses on special methods of teaching science in grades 7-12 with emphasis on integrated and interdisciplinary instruction, adaptations for learners with special needs, content specific reading strategies and applications of educational technology, and the Ohio Academic Content Standards.

Prerequisite: EDUC 313

Co-requisite: EDUC 301

Field Hours Requirement: Required field experience: 20 hours.

## **EDUC 395 - Integrated Social Studies Methods for the Adolescent**

### **Credit Hours: 3**

Focuses on special methods of teaching social studies in grades 7-12 with emphasis on integrated and interdisciplinary instruction, adaptations for learners with special needs, content specific reading strategies and applications of educational technology, and the Ohio Academic Content Standards.

Prerequisite: EDUC 313

Co-requisite: EDUC 301

Field Hours Requirement: Required field experience: 20 hours.

## **EDUC 396 - Multi-age Art Curriculum and Methods**

### **Credit Hours: 4**

This course provides the student with information needed to teach multi-age art. Focus is on visual art education history, current trends, curriculum and classroom methods. Emphasis is also given to safe and appropriate use of media for multi-age art making.

Prerequisite: Must be accepted into the Education Program

Co-requisite: EDUC 301

## **EDUC 401 - Teach with Scaffolding**

### **Credit Hours: 1**

This is a clinical field experience course required for teacher education licensure. Students will work with a partner school in an apprenticeship format. Expectations include assisting with classroom organization and management, creation and delivery of co-taught lessons, assessing student performance, maintaining relationships with parents, other caregivers, community partners and building collaborators, and exploring the district, school and classroom context (demographics, academic performance, socio-economic influence, etc). A valid background check is required.

Prerequisite: EDUC 301

## **EDUC 412 - Reading and Writing for Information**

### **Credit Hours: 3**

Develops strategies, techniques and skills for strengthening the reading and writing skills of diverse learners in grades PreK to 5 considering various content areas. Includes applications of educational technology.

Prerequisite: EDUC 371

Field Hours Requirement: Required field experience: 10 hours.

## **EDUC 413 - Reading in the Content Areas**

### **Credit Hours: 3**

This course prepares candidates in research-based strategies, techniques, and skills for strengthening the literacy skills of diverse learners in the content areas in elementary, middle, and high school. The course provides a scientifically based foundation on literacy and language development across language systems and includes applications of educational technology.

Prerequisite: EDUC 313, EDUC 314, EDUC 370, EDUC 371

Co-requisite: EDUC 401

Note: Field hours are required.

Field Hours Requirement: Required field experience: 10 hours.

## **EDUC 414 - Reading Assessment and Intervention**

### **Credit Hours: 3**

This course examines research-based principles, techniques, and materials useful in the assessment and remediation of reading difficulties for learners across the grade bands. The course foci include: (a) best practices for nondiscriminatory assessment, (b) rehearsal opportunities and feedback while administering formal and informal reading and writing assessments, (c) examining how, when, and why to vary learning environments and developmentally appropriate interventions, (d) implementing evidence-based Tier 1, Tier 2, and Tier 3 reading and/or writing interventions to support student learning, and (e) data-based decision-making using a Response to Intervention framework grounded in the Science of Reading. This course addresses cultural and linguistic differences in the assessment practices to provide appropriate differentiated instruction.

Prerequisite: EDUC 341, EDUC 370, EDUC 371, EDUC 413

Co-requisite: EDUC 401

Note: Field hours are required.

Field Hours Requirement: Required field experience: 20 hours.

## **EDUC 418 - Professional Practices for Early Childhood**

### **Credit Hours: 2**

Taken as part of the professional semester, provides candidates with additional opportunities to develop the knowledge, skills, and dispositions necessary for providing effective instruction in inclusive settings with diverse populations of young children. Emphasis is placed on transitioning into PreK to grade 5 school settings as entry year/resident educators. The culminating activity is a formal exit interview during which the candidate shares his/her portfolio.

## **EDUC 419 - Co-teaching and Collaboration in Education**

### **Credit Hours: 2**

Taken as part of the professional semester, develops the knowledge and skills needed to communicate and collaborate effectively with colleagues, students' families, and the broader community.

## **EDUC 420 - Proactive Approaches to Classroom Management and Support**

### **Credit Hours: 2**

Taken as part of the professional semester, addresses the knowledge and skills needed to establish a safe, positive and supportive environment for all children. Emphasis is placed on developing specific strategies for providing school-wide and targeted behavioral support to students, as well as preparing and organizing resources and maximizing the use of instructional time.

## **EDUC 432 - Student Teaching in Special Education**

### **Credit Hours: 9**

Is a 14-week supervised experience in planning for instruction, creating an environment for student learning, teaching for student learning, and reflecting on student performance in settings that provide services for students identified with mild to moderate disabilities. Part of the professional semester.

## **EDUC 434 - Instructional Services for Children with Mild/Moderate Special Needs**

### **Credit Hours: 3**

Focuses on the selection and implementation of instructional strategies for students with disabilities who need targeted and/or intensive services. Emphasis is placed on skill development in selected intensive instructional approaches in reading, mathematics, and written expression.

Prerequisite: EDUC 340

Co-requisite: EDUC 401

Field Hours Requirement: Required field experience: 15 hours.

## **EDUC 449 - Student Teaching in Early Childhood**

**Credit Hours: 9**

Provides a 14-week supervised experience in planning instruction taken as part of professional clinical practice (student teaching) semester, creating an environment for student learning, teaching for student learning, and reflecting on student performance completed in an early childhood setting, PreK to 5.

## **EDUC 450 - Middle Level Student Teaching**

**Credit Hours: 9**

Is a 14-week supervised experience in planning for instruction, creating an environment for student learning, teaching for student learning, and reflecting on student performance completed in a middle level setting, grades 4 through 9. Part of the professional semester.

## **EDUC 451 - Student Teaching in the Secondary School**

**Credit Hours: 9**

Is a 14-week supervised experience in planning for instruction, creating an environment for student learning, teaching for student learning, and reflecting on student performance completed in a secondary setting, grades 7 through 12. Part of the professional semester.

## **EDUC 455 - Student Teaching in Early/Middle Level Physical and/or Health Education**

**Credit Hours: 5**

Is a supervised experience under the guidance of a cooperating teacher and university faculty member in a minimum of six weeks clinical placement involved in planning for instruction, creating an environment for student learning, teaching for student learning, and reflecting on students' performance completed in a primary or middle school physical education and/or health setting, grades K-3 or grades 4-9. Part of the professional semester.

## **EDUC 457 - Student Teaching in Secondary Level Physical and/or Health Education**

**Credit Hours: 5**

Is a supervised experience under the guidance of a cooperating teacher and Muskingum faculty member in a minimum of six weeks clinical placement involved in planning for instruction, creating an environment for student learning, teaching for student learning, and reflecting on students' performance completed in a secondary school physical education and/or health setting, grades 9-12. Part of the professional semester.

## **EDUC 461 - Student Teaching Seminar**

### **Credit Hours: 1**

Is an opportunity for student teachers to synthesize the teacher education knowledge base and practice teaching experience through large and small group interaction with a focus on linking theory to practice in their student teaching placements. Part of the professional semester.

## **EDUC 465 - Professional Practices in Middle Level Education**

### **Credit Hours: 2**

Taken as part of the professional semester, provides candidates with additional opportunities to develop the knowledge, skills, and dispositions necessary for providing effective instruction in inclusive settings with diverse populations of middle level learners. Emphasis is placed on transitioning into grades 4-9 school settings as entry year/resident educators. The culminating activity is a formal exit interview during which the candidate shares their professional portfolio.

## **EDUC 466 - Professional Practices in Secondary Schools**

### **Credit Hours: 2**

Taken as part of the professional semester, provides candidates with additional opportunities to develop the knowledge, skills, and dispositions necessary for providing effective instruction in inclusive settings with diverse populations of secondary school learners. Emphasis is placed on transitioning into grades 7-12 school settings as entry year/resident educators. The culminating activity is a formal exit interview during which the candidate shares their professional portfolio.

## **EDUC 468 - Professional Practices in Special Education**

### **Credit Hours: 2**

Taken as part of the professional semester, provides candidates with additional opportunities to develop the knowledge, skills, and dispositions necessary for providing effective instruction to students with disabilities in their least restrictive environment, with a particular focus on intensive behavioral support and transition planning. Emphasis is placed on transitioning into K-12 school settings as entry year intervention specialists/resident educators. The culminating activity is a formal exit interview during which the candidate shares their professional portfolio.

## **EDUC 623 - Clinical Practice in Early Childhood Education**

### **Credit Hours: 8**

Provides a guided teaching experience with children in grades pre-kindergarten-3 under the supervision of a qualified cooperating teacher and a University supervisor. It requires a minimum of 360 hours of full-day practice teaching, with those hours divided between two settings: pre-kindergarten/kindergarten and grades 1-3. In instances where the student is already in a position that is consistent with the requirements of the clinical practice placement, appropriate components of the course may be completed in that placement if a cooperating teacher who meets that building's mentor criteria can be assigned to the individual. Permission of Program Director required.

MAP Only: X

## **EDUC 626 - Clinical Practice for Intervention Specialist**

**Credit Hours: 8**

Provides a guided teaching experience with children with identified mild to moderate disabilities in grades kindergarten-12 under the supervision of a qualified cooperating teacher and a University supervisor. It requires a minimum of 360 hours of full-day practice teaching in one or more service settings, including at least 120 hours of instruction in a resource or self-contained classroom. In instances where the student is already in a position that is consistent with the requirements of the clinical practice placement, appropriate components of the course may be completed in that placement if a cooperating teacher who meets that building's mentor criteria can be assigned to the individual. Permission of Program Director required.

MAP Only: X

## **EDUC 627 - Clinical Practice & Professional Portfolio Development Seminar**

**Credit Hours: 3**

Provides an opportunity for students in their respective clinical practice experiences to synthesize what they have learned and experienced through large and small group interactions with a focus on linking research and theory to practice in their classrooms. Focuses on personal reflection on participant's paths into the teaching profession and provides opportunities to collaborate with other future and current educators. Students also complete their professional portfolios. Permission of Program Director required.

MAP Only: X

## **ENGL 110 - Fundamental English**

**Credit Hours: 3**

Offers a study of grammar, punctuation, mechanics, and usage. Writing from the sentence to the paragraph level and short essays. Does not count in the major, minor, education concentration, or gen ed.

Prerequisite: Placement or permission of instructor

## **ENGL 121 - Composition**

**Credit Hours: 3**

Requires students to write between five and six thousand words, applying rhetorical principles of literate discourse principles as demonstrated in samples of effective writing by writers of diverse backgrounds. Includes grammar, levels of usage, the purposes of language, writing for different purposes, and audiences. Does not satisfy hours for the major or minor.

Prerequisite: Placement or completion of ENGL 110. ENGL 121 is a prerequisite for all ENGL courses except ENGL 110.

## **ENGL 123 - Introduction to Literature**

**Credit Hours: 3**



Explores common topics and themes as expressed in various literary genres. Students read, respond to, and analyze works of literature, and learn how to find connections between literature, our culture, ourselves, and the human condition. Emphasis is on the western tradition of literature. Sections may have individual titles: for example, Introduction to Literature: Literature and Wellness or Introduction to Literature: Leadership and Literature, and others. Either ENGL 123 or ENGL 124 may be used to count toward the English major/minor, but not both.

Prerequisite: ENGL 121

## **ENGL 124 - World Literature**

### **Credit Hours: 3**

Explores topics and themes as expressed in notable works of literature from around the world. Students read, respond to, and analyze works of literature and learn how to find connections between literature, various cultures, ourselves, and the human condition. Emphasis is on the non-western tradition of literature. Either ENGL 123 or 124 may be used to count toward the English major/minor, but not both.

Prerequisite: ENGL 121

## **ENGL 201 - Advanced Writing and Professional Development**

### **Credit Hours: 3**

This course provides study and practice to help students write effectively and persuasively. As part of the English major, but not limited to English majors and minors, the course concerns the practical matters of writing as part of careers and also asks students to examine and reflect on how writing, literature, and creativity enrich our professional, intellectual, and personal lives. The foundation of the course is a commitment to preparing for the future and a life well lived.

Prerequisite: ENGL 121

## **ENGL 202 - Business Writing**

### **Credit Hours: 3**

Concentrates on clarity and orderliness in preparing business correspondence, studies, reports, and proposals.

Prerequisite: ENGL 121

## **ENGL 207 - Print Writing and Reporting**

### **Credit Hours: 3**

Provides an introduction to the principles and concepts of writing and reporting for print media and the web. It involves reporting, interviewing, doing background research, writing, and analyzing news stories, and introduces students to journalistic ethics and codes of conduct.

Prerequisite: ENGL 121

Cross Listed As: JOURN 207

## **ENGL 231 - British Literature to 1800**

**Credit Hours: 3**

Studies the major literary movements and figures of British culture from Anglo-Saxon writings through the neoclassical period.

Prerequisite: ENGL 121

**ENGL 232 - British Literature after 1800**

**Credit Hours: 3**

Examines the development of poetry and prose in Britain from the Romantic writers to the present. The political and intellectual contexts, as well as the subjects and styles of selected authors of both genders, are studied.

Prerequisite: ENGL 121

**ENGL 233 - American Literature to 1865**

**Credit Hours: 3**

Surveys American literature from the Colonial Era through the age of Romanticism. Genres include essays, Native American legends, captivity narratives, slave narratives, short fiction, the novel, and lyric poetry. Intellectual and historical contexts, as well as key authors, are covered.

Prerequisite: ENGL 121

**ENGL 234 - American Literature after 1865**

**Credit Hours: 3**

Surveys American literature from the Age of Realism to the present day. Genres include essays, short fiction, drama, poetry, and the novel. Intellectual and historical contexts, as well as key authors, are covered.

Prerequisite: ENGL 121

**ENGL 235 - African-American Literature**

**Credit Hours: 3**

Examines the major trends in African-American literature, using historical, political, and social contexts. Genres include poetry, fiction, the slave narrative, and drama.

Prerequisite: ENGL 121

**ENGL 245 - Bible and Literature**

**Credit Hours: 3**

This course explores the interrelationship between the Bible and various selections of literature to provide students ways of understanding how authors were motivated by, reacted to, or otherwise engaged in a dialogue with sacred

texts. Furthermore, students can investigate ways in which these works, influenced by Biblical readings, intervened in or otherwise motivated individual, interpersonal, social, or political engagements.

## **ENGL 250 - Topics in Literature, Film, and Culture**

### **Credit Hours: 3**

Provides for study of a certain topic through works of literature, supplemented by film or other art forms. Possible topics include fantasy literature, science fiction, or something more broad such as war, love, or the family.

Prerequisite: ENGL 121

Repeatability: May be repeated with topic change.

## **ENGL 260 - Introduction to Creative Writing**

### **Credit Hours: 3**

Explores various genres and helps students to develop their individual perspectives and voices. The course involves writing exercises and prompts, group discussions of creative work, and many opportunities for feedback and revision. Enrollment preference to sophomores and above.

Prerequisite: ENGL 121

## **ENGL 311 - Adolescent and Young Adult Literature**

### **Credit Hours: 3**

Is a critical study of literature intended for adolescent and pre-adolescent readers. Themes include coming of age, formation of identity, community and society, and the journey. Students become familiar with a variety of YA genres, which may include dystopian fiction, sci fi and fantasy literature, contemporary realistic fiction, non-fiction, and multimodal texts. Attention is given to issues of censorship of YA literature and pedagogical resources for the use of YA literature in the classroom and how the identity formation process is affected when adolescents encounter people from different racial, ethnic, cultural, religious, and/or economic backgrounds.

Prerequisite: ENGL 121

## **ENGL 316 - Public Relations Writing**

### **Credit Hours: 3**

Is a study of the current methods of writing copy for agencies, corporations, and not-for-profit organizations. Focuses on the writing of press releases, with an analysis of their purpose, value, and content.

Prerequisite: ENGL 121

## **ENGL 317 - Journalistic Ethics**

### **Credit Hours: 3**

Studies ethical problems and issues in mass communication with a framework of basic theories and social roles of mass media. Surveys the major ethical issues that concern journalism. Describes ethical dilemmas that confront broadcast

and print journalists. Matters of journalistic morality, codes of ethics, codes of conduct, taste, libel, shield laws, and photo guidelines are covered.

Prerequisite: ENGL 121

## **ENGL 319 - Topics in Creative Nonfiction Writing**

**Credit Hours: 3**

Provides students the opportunity to explore the principles and practice of creative nonfiction writing. Topics may include memoir, personal essay, travel, food, humor, and science.

Prerequisite: ENGL 121

Repeatability: May be repeated once with topic change.

## **ENGL 320 - Principles of Literary Study**

**Credit Hours: 3**

Explores theoretical principles and critical viewpoints that underlie the thoughtful, purposeful study of literature and applies these principles to key literary works.

Prerequisite: ENGL 121

## **ENGL 323 - Shakespeare**

**Credit Hours: 3**

Is an intensive study of Shakespeare's writings, including selected sonnets, comedies, histories, tragedies, and romances, with special attention to the major themes and to the Elizabethan and Jacobean contexts of his plays. The course covers the practices and conventions of theatrical performance in Shakespeare's time and his development as a dramatist.

Prerequisite: ENGL 121

## **ENGL 329 - Romantic and Victorian Literature**

**Credit Hours: 3**

Explores Romantic and Victorian poetry and representative prose sections, the position of art, and the process of myth and metaphor in nature/culture relations.

Prerequisite: ENGL 121

## **ENGL 331 - History of the British Novel**

**Credit Hours: 3**

Studies the novel as an important literary and social development in Britain and follows some of the important changes in the structure, purpose, and audience of the novel through the eighteenth and nineteenth centuries.

Prerequisite: ENGL 121

### **ENGL 333 - Modern and Contemporary British Fiction**

**Credit Hours: 3**

Examines the directions British fiction has taken in response to a changing social and literary scene: two world wars, the decline of the British Empire, the rise of working class, women, and minority writers. The course considers experimental and traditional writers from Joyce to the present.

Prerequisite: ENGL 121

### **ENGL 341 - Nineteenth Century American Fiction**

**Credit Hours: 3**

Studies the works of the American Romantics, then moves to the realism, regionalism, and naturalism.

Prerequisite: ENGL 121

### **ENGL 343 - Modern and Contemporary American Fiction**

**Credit Hours: 3**

Studies the variety and richness of American fiction since the turn of the twentieth century. Topics may include novels of the 1920s, war novels, and the works of women and minority writers.

Prerequisite: ENGL 121

### **ENGL 350 - Morality and Literature**

**Credit Hours: 3**

This course covers a range of moral and ethical issues associated with literature: its content, its production, and its study. For example, works of literature may be analyzed for its moral content or from the perspective of moral and ethical criticism. In addition, the course will study broader, literature-related issues such as censorship, plagiarism, diversity in representation, or the line between fiction and nonfiction.

Prerequisite: ENGL 121

### **ENGL 351 - Modern and Contemporary American Poetry**

**Credit Hours: 3**

Studies the life of poetry in recent American culture, from the early twentieth century through today. The course attempts to answer the question, "Why does poetry matter?" The emphasis is on close reading along with an exploration of diverse methods of literary criticism, such as historical and biographical. Poets are looked at in context, and poetic form will be considered as well, from iambic pentameter to spoken word and Slam.

Prerequisite: ENGL 121

## **ENGL 361 - Language: Structure and Usage**

**Credit Hours: 3**

Studies the theoretical views and methodological tools for an accurate understanding of language, its structure, and usage. Emphasis is on the English language, covering topics such as language acquisition and development, the history of the English language, grammar, dialects, sentence analysis and levels of usage.

Prerequisite: ENGL 121

## **ENGL 385 - Topics in Literature, Film, and Culture**

**Credit Hours: 3**

Provides for study of significant writers, genres, and themes as well as other topics devised by faculty or requested by students.

Prerequisite: ENGL 121

Repeatability: May be repeated with topic change.

## **ENGL 386 - Topics in Film and Literature**

**Credit Hours: 3**

Explores specific topics in film and literature. Students will view selected films, read selected texts, and apply theoretical approaches, close reading, and film analysis techniques. Topics may include cinematic adaptations of authors (e.g., Shakespeare, Dickens, Austen), genres (e.g., anime, comedy, sci-fi), or themes (e.g., gender in film and literature, dystopias in film and literature, sports in film and literature).

Prerequisite: ENGL 121

Repeatability: May be repeated with topic change.

## **ENGL 387 - Topics in Literature and Gender**

**Credit Hours: 3**

Gives students the opportunity to explore literary texts through the lens of gender. Students learn principles of gender theory and analysis, and how to use these principles to understand and interpret texts. Topics may include LGBT literature, women's literature, the literature of masculinity, marriage in the 19th-century novel, sexuality in science fiction, or others according to instructor interest and research area.

Prerequisite: ENGL 121

Repeatability: May be repeated with topic change.

## **ENGL 390 - Advanced Creative Writing**

**Credit Hours: 3**

Provides students with practice in a variety of forms, increasing in complexity. Individual style and voice in students' work as well as in contemporary authors are explored.

Prerequisite: ENGL 260 or permission on instructor.

## **ENGL 394 - Classical Mythology**

**Credit Hours: 3**

Emphasizes Greek and Roman mythology and its influence on English and American writers. Various examples of Greek and Roman literature are read in translation.

Prerequisite: ENGL 121

## **ENGL 398 - Internship in English**

**Credit Hours: 3**

Designed to offer students supervised English-related work experience. The aim is to allow students to use and develop knowledge of the English language in professional contexts involving editing and publication. The course number sequence allows for internships covering up to two semesters, consecutive or non-consecutive. Up to six hours may count toward the English major or minor. Must be approved and supervised by instructor with relevant content background to the internship. Students must have taken appropriate courses relevant to the internship.

Prerequisite: Permission of instructor

## **ENGL 399 - Continuing Internship in English**

**Credit Hours: 1-3**

Designed to offer students supervised English-related work experience. The aim is to allow students to use and develop knowledge of the English language in professional contexts involving editing and publication. The course number sequence allows for internships covering up to two semesters, consecutive or non-consecutive. Up to six hours may count toward the English major or minor. Must be approved and supervised by instructor with relevant content background to the internship. Students must have taken appropriate courses relevant to the internship.

Prerequisite: Permission of instructor

## **ENGL 495 - Seminar**

**Credit Hours: 3**

Is the capstone course for English majors; students share in intensive study of a major literary work and write a paper of suitable length, applying the theoretical principles of literary criticism to that work. Discussions focus on analyzing literature, critical reading, and research methods. Students are expected to make a brief oral presentation at the end of the semester, summarizing their work. Offered each semester on a subject selected by the instructor.

Prerequisite: ENGL 320

Cross Listed As: ENGL 320; senior status or permission of department chair

## **ESL 101 - ESL Listening and Speaking**

**Credit Hours: 3**

Intended for students of a high-intermediate to advanced level of English proficiency, and focuses on English listening and speaking skills needed for academic purposes. Students successfully completing the course will be able to give an oral critical report and illustrate listening comprehension through a variety of exercises.

Prerequisite: Permission of instructor

Co-requisite: ESL 102

**ESL 102 - ESL Reading and Writing****Credit Hours: 3**

Intended for students at high-intermediate to advanced level of English proficiency and focuses on reading and writing skills needed for a liberal arts education. Writing assignments are connected to reading materials suitable for a culturally diverse student population, and samples of effective writing are studied with accessibility to culturally diverse students in mind. Students write essays of narration, description, exposition, classification, and argumentation.

Prerequisite: Permission of instructor

Co-requisite: ESL 101

**ESL 103 - Introduction to American Culture for Non-Native English Speakers****Credit Hours: 2**

An opportunity for non-native English speaking students to have an introduction to American Culture. Activities are designed to help students understand life and culture in the United States. Topics addressed include religious life in the United States, the American political system, a glimpse into American history, American values, the American educational system, interpersonal communication with Americans, American art, customs and traditions, and sport and entertainment.

Co-requisite: ESL 101, ESL 102

**ESL 104 - Academic English for Non-Native English Speakers****Credit Hours: 3**

Intended for students at the high-intermediate to advanced level of English proficiency and focuses on helping students achieve the cognitive academic language proficiency (CALP) skills needed to succeed in university-level courses. Through a variety of exercises, students receive focused instruction on academic vocabulary and language skills.

Prerequisite: ESL 101, ESL 102

Co-requisite: ESL 251, WRLD 200

**ESL 251 - ESL Conversation Table for Non-Native English Speakers****Credit Hours: 1**

An opportunity for international students to maintain or improve their English language skills through authentic conversation with native English speakers (who will not be enrolled as students in the class). Activities are designed to help students use the language creatively as well as purposefully.



## **ESL 351 - ESL Conversation Table for Non-Native English Speakers**

### **Credit Hours: 1**

A weekly meeting designed to expand vocabulary and increase the speaking of students at the advanced-low to advanced-mid level. Students may take up to three conversation classes (ESL 251, 351, or a combination) for credit.

Prerequisite: ESL 101, its equivalent or permission of instructor.

## **EVSC 121 - Environmental Issues**

### **Credit Hours: 1**

Involves presentation and discussion of selected topics of importance in environmental science. This course permits students to explore this broad field through general readings and discussion.

## **EVSC 421 - Topics in Environmental Science**

### **Credit Hours: 1**

Is a seminar course which explores in detail, through reading and discussion, recently published reports and topics in the field. Environmental science majors must take the course for at least one credit. May be taken for additional credit.

Prerequisite: Environmental Science major core completed or consent of major advisor.

## **EVSC 422 - Advanced Internship in Environmental Science**

### **Credit Hours: 4**

Requires the successful completion of a minimum of 160 hours during either a semester or a summer as an intern in an environmentally-related situation.

Prerequisite: Junior standing, prior approval of internship

## **EVSC 428 - Environmental Science Senior Research**

### **Credit Hours: 4**

Involves laboratory, field and/or library research on a topic related to environmental science. The project will be selected in consultation with a faculty member and will involve a literature search and experimental work.

Prerequisite: Environmental Science major with senior standing

## **EXSC 120 - Introduction to Exercise Science**

### **Credit Hours: 3**

This course presents an overview of the profession of Exercise Science and provides students with instruction on a variety of introductory skills necessary to begin practicing as an Exercise Science Professional.

## **EXSC 131 - Human Structure and Function**

**Credit Hours: 4**

Focuses on the levels of body organization, body support and movement, structural physiology and disease. Topics include the chemical and cellular basis of human life, the integration of body functions and homeostasis, and the structure and function of the various body systems including nervous, endocrine, musculoskeletal, cardiovascular, and integumentary. Disease etiology, prevention practices as they affect the human body, and practices and behaviors that promote, as well as compromise, health and safety are also examined.

## **EXSC 140 - Prevention & Care of Orthopedic Injuries**

**Credit Hours: 3**

This course presents an overview of the professions that contribute to sports medicine and examines prevention, recognition, and care strategies of common musculoskeletal injuries.

Prerequisite: EXSC 131, BIOL 111/BIOL 107, BIOL 121, or BIOL 122

## **EXSC 170 - Orthopedic Anatomy**

**Credit Hours: 3**

This course focuses on the structural anatomy of the body, particularly the skeletal, ligamentous, musculotendinous, and neurologic systems. The course prepares Exercise Science students with the anatomy necessary to be successful in future Exercise Science courses.

## **EXSC 210 - First Aid and CPR**

**Credit Hours: 3**

This course is designed to prepare students in administering immediate care to the injured and suddenly ill and to provide temporary care until medical help arrives. Students have the opportunity to earn First Aid and CPR certification from Red Cross or the American Heart Association.

## **EXSC 249 - Exercise Physiology**

**Credit Hours: 3**

Analyzes the responses of the human body to physical activity, including an awareness of the various types of flexibility, strength training, and cardiovascular conditioning programs. This course aligns with the goals and objectives for physical education teacher candidates seeking multi-age licensure. Hands-on activities within the course structure allow students to have practical evaluation experiences.

Prerequisite: EXSC 131

## **EXSC 250 - Cultural Competency in Healthcare**

**Credit Hours: 3**

This course introduces students to patient demographics and how culture influences health care and wellbeing.

Emphasis is placed on cultural competence, examining practices of inclusion, and employing an appropriate inter-professional intervention model. 3 hours of lecture per week.

### **EXSC 260 - Rehabilitation Techniques in Exercise**

**Credit Hours: 3**

This course examines the broad field of therapeutic exercise and rehabilitation of major body areas following injury or disease. Students will learn to design and implement programs for the rehabilitation of patients from exercise injuries and conditions.

### **EXSC 315 - Electrocardiography (ECG) Analysis**

**Credit Hours: 1**

This course focuses on methods and principles for analyzing electrocardiograms through a step by step approach. Students develop the skills necessary to administer ECG's and analyze for dysrhythmias pertinent to stress and VO2 max testing.

Prerequisite: EXSC 131 or BIOL 122

### **EXSC 333 - Motor Learning and Performance**

**Credit Hours: 3**

Introduces students to a wide range of practical issues in the performance and learning of motor skills. Emphasis is placed upon a variety of exercises and activities that allow for the application of concepts and principles in real world situations.

### **EXSC 336 - Principles of Strength and Conditioning**

**Credit Hours: 3**

Familiarizes students with the hands-on training and theoretical background needed to competently assess levels of wellness/fitness within low risk adult populations. The topics and skills addressed include health screening protocols and measurement protocols for the health-related components of fitness (i.e. cardiorespiratory fitness, muscular fitness, flexibility, body composition).

### **EXSC 337 - Exercise Testing and Prescription**

**Credit Hours: 3**

Familiarizes students with the hands-on training and theoretical background needed to competently assess levels of wellness/fitness within low risk adult populations. The topics and skills addressed include health screening protocols and measurement protocols for the health-related components of fitness (i.e., cardiorespiratory fitness, muscular fitness, flexibility, body composition).

### **EXSC 338 - Kinesiology**

**Credit Hours: 3**

Is the study of musculoskeletal anatomy for efficient bodily movement. Offers application of kinesiological and biomechanical principles for the implementation of physical education programs for students of multi-age. Laboratory activities allow students to have hands-on practical evaluation experience.

### **EXSC 349 - Advanced Exercise Physiology**

**Credit Hours: 3**

Examines the acute physiological adjustments to exercise and the chronic physiological adaptations to exercise training. The role of the major physiological systems of the body in maintaining homeostasis during exercise will be studied along with the adaptations that occur in these systems following exercise training. Practical applications of this knowledge will be explored with regards to the role of exercise in maintaining and improving health, physical fitness and athletic performance.

Prerequisite: EXSC 131

### **EXSC 370 - General Medical Conditions**

**Credit Hours: 3**

This course provides the student with the opportunity to develop theoretical and practical knowledge of clinical signs and symptoms of pathology, which will allow the practicing exercise science professional to recognize systematic illnesses and injuries.

### **EXSC 375 - Therapeutic Modalities**

**Credit Hours: 3**

This course provides the student with the opportunity to develop theoretical and practical knowledge of therapeutic modalities (such as thermal and electromagnetic agents) which are used in the treatment and care of exercise injuries.

### **EXSC 380 - Pharmacology for the Exercise Professional**

**Credit Hours: 3**

This course introduces students to basic pharmacological principles and drugs used to treat musculoskeletal and general medical conditions common in the physically active population. This course will also demonstrate common adverse reactions that drugs may have on exercise and the legal and ethical considerations regarding medication influence on participation in athletics.

Prerequisite: CHEM 108 or CHEM 111

### **EXSC 470 - Organization and Administration**

**Credit Hours: 3**

This course is the study of concepts in healthcare organization and administration relative to exercise science. The course will discuss such topics as legal liability, fiscal management, facilities operation, personnel supervision, public relations, and organizational structures.

### **EXSC 490 - Research Methods**

**Credit Hours: 3**

This course introduces the basic skills necessary to critique research in exercise science. Focus on the process of selecting a topic and then writing a manuscript to be submitted for publication. The course prepares the Exercise Science student for their senior seminar.

Prerequisite: EXSC 470

**EXSC 495 - Senior Seminar**

**Credit Hours: 3**

This course enables the student to pursue an approved, in depth research project with a focus on the evidence-based practice of exercise science. The student will research a specific topic and prepare an oral presentation as well as a written paper.

Prerequisite: EXSC 490

**EXSC 498 - Seminar in Health and Fitness**

**Credit Hours: 3**

A capstone course for students completing the Health and Fitness major. The student will engage in the development of a research proposal or public health practicum to provide a practical application of their general coursework. The research topic/practicum placement will be selected in consultation with the supervising faculty member.

Prerequisite: Permission of Department Chair

**FLWS 110 - JAG Public Service Fellows Colloquium I**

**Credit Hours: 1**

Examines the foundational ideas, dynamics, and issues related to civic engagement and public service, and facilitates contemplation of a student's roles, responsibilities, and opportunities in civic life. Students engage in University-based as well as off-campus experiential learning, including events and activities facilitated by government and non-profit organizations.

Repeatability: The course may be repeated once for academic credit.

**FLWS 120 - Innovation Fellows Program I**

**Credit Hours: 1**

This course introduces innovation through readings, case studies, media, and literature; exposes students to innovate problem-solving and teamwork activities; and facilitates the exploration of ideas and interests related to innovation. Students will be expected to participate in off-campus activities and group projects.

Repeatability: Can be repeated once for credit.

**FLWS 210 - JAG Public Service Fellows Colloquium II**

**Credit Hours: 1**

Examines in depth the civic engagement and public service themes introduced in FLWS 110 and connects them to the importance of building empowerment and efficacy in civic life. Students will interact with civic and community organizations and officials as well as help to develop and carry out civic engagement and public service related events and activities. Students will also engage in leadership and mentoring activities, including service as mentors to first-year fellows.

Repeatability: The course may be repeated once for academic credit.

**FLWS 220 - Innovation Fellows Program II****Credit Hours: 1**

This course builds on students' knowledge of innovation through readings, case studies, media, and literature; exposes students to innovative problem-solving and teamwork activities; and facilitates the exploration of ideas and interests related to innovation. Students will be expected to participate in off-campus activities and group projects, and to take on a mentoring role.

Repeatability: Can be repeated once for credit.

**FLWS 310 - JAG Fellows High-Impact Experience in Public Service****Credit Hours: 1**

This course serves to provide enhanced instruction related to civic and community engagement and public service for students in the John and Annie Glenn Public Service Fellows Program. It is intended to be taken concurrently and in coordination with a high-impact experience approved by the JAG Fellows Program, preferably in the student's junior year.

Prerequisite: Acceptance in the John and Annie Glenn Public Service Fellows Program and completion of at least one semester each of FLWS 110 and FLWS 210.

**FLWS 320 - Innovation Fellows Program III****Credit Hours: 1**

This course continues building on students' knowledge of innovation through readings, case studies, media, and literature; exposes students to innovative problem-solving and teamwork activities; and facilitates the planning and implementation of a high-impact experience. Students will be expected to participate in off-campus activities and group projects, and to take on a mentoring role.

Repeatability: Can be repeated once for credit.

**FLWS 410 - JAG Public Service Fellows Practicum****Credit Hours: 2**

This course involves the collaboration of senior-level students in the John and Annie Glenn Public Service Fellows Program to identify and address a community issue or need. Building upon knowledge and experience gained in the JAG Fellows Program, fellows collectively identify an issue or need; develop an event or program to address it; plan and administer that event or program; and explore ways to make their efforts sustainable once the course has ended.

Prerequisite: Acceptance into the John and Annie Glenn Public Service Fellows Program and completion of at least one semester each of FLWS 110 and FLWS 210.

## **FLWS 420 - Innovation Fellows Program IV**

### **Credit Hours: 1**

This course continues building on students' knowledge of innovation through readings, case studies, media, and literature; exposes students to innovative problem-solving and teamwork activities; facilitates the planning and implementation of a high-impact experience; prepares students to continue innovating after graduation. Students will be expected to participate in off-campus activities and group projects, and to take on mentoring and leadership roles.

Repeatability: Can be repeated once for credit.

## **FREN 111 - Beginning French I**

### **Credit Hours: 3**

Introduces students to the culture and language of the French-speaking world. Students develop an ability to communicate in real-life situations by acquiring reading, writing, listening, and speaking skills. This course is intended for students with no prior knowledge of French, or those who have had two years or less of high school French.

## **FREN 112 - Beginning French II**

### **Credit Hours: 4**

Builds on the skills acquired in FREN 111. Students continue to develop an ability to communicate in real-life situations by acquiring additional reading, writing, listening, and speaking skills as well as cultural competency in the French-speaking world. Students meet once a week with a language assistant from France.

Prerequisite: FREN 111 or 2-3 years of high school French

## **FREN 123 - Explorations of Francophone Literature in English Translation**

### **Credit Hours: 3**

Is taught entirely in English. The course introduces basic literary concepts and explores themes and movements of French literature from the seventeenth to the twentieth centuries.

## **FREN 211 - Intermediate French I**

### **Credit Hours: 4**

Continue the development of interpersonal, interpretive, and presentational skills through a variety of texts (journalistic, short story, poetry, advertising, film, etc.) that reflect the cultural, social, and linguistic diversity of the French-speaking world. Students explore the diversity of practices, products, and perspectives found within contemporary French-speaking societies. Topics may include gender, multiculturalism, ethnicity, family, religion, literature, art, music, gastronomy, education, economics, and politics. Students meet once a week with a language assistant from France.

Prerequisite: FREN 112 or its equivalent

## **FREN 212 - Intermediate French II**

### **Credit Hours: 4**

Continue the development of interpersonal, interpretive, and presentational skills through a variety of texts (journalistic, short story, poetry, advertising, film, etc.) that reflect the cultural, social, and linguistic diversity of the French-speaking world. Students explore the diversity of practices, products, and perspectives found within contemporary French-speaking societies. Topics may include gender, multiculturalism, ethnicity, family, religion, literature, art, music, gastronomy, education, economics, and politics. Students meet once a week with a language assistant from France.

Prerequisite: FREN 211 or its equivalent

## **FREN 240 - Business French**

### **Credit Hours: 3**

Introduces basic concepts of business communication in the French-speaking world. Topics include finance, economics, marketing, and intercultural awareness.

Prerequisite: FREN 212, its equivalent, or permission of instructor.

## **FREN 251 - French Table**

### **Credit Hours: 1**

Offers the opportunity to practice conversational French in an informal setting. Activities are designed to encourage students to express themselves creatively in French.

Prerequisite: FREN 111 or its equivalent

Repeatability: The course may be taken up to three times for credit, but applied to the major only twice.

## **FREN 291 - Advanced French Table**

### **Credit Hours: 1**

A weekly meeting designed to expand vocabulary and increase the speaking proficiency of students at or above the advanced-intermediate level.

Prerequisite: FREN 212, its equivalent, or permission of instructor.

Note: Maximum number of French Table classes (FREN 251, 291, or a combination) that may be taken for credit: three. Maximum number of French Table classes that can be applied to the 33 hours required for the major: two (can consist of two 251s; two 291s, or one of each).

## **FREN 301 - Advanced French: Conversation and Pronunciation**

### **Credit Hours: 3**



Emphasizes listening and speaking skills. Students improve their comprehension and speech through laboratory exercises, class discussions, and other activities.

Prerequisite: FREN 212 or its equivalent

## **FREN 302 - Advanced French: Grammar and Composition**

**Credit Hours: 3**

A writing course that focuses on writing for a number of purposes, including essays, correspondence, narratives, and literary analysis. An overview of French grammar is included.

Prerequisite: FREN 212 or its equivalent

Repeatability: The course may be taken twice for credit.

## **FREN 303 - Survey of French Literature**

**Credit Hours: 3**

Introduces major literary movements, principal writers, and outstanding works of French literature in their historical contexts beginning with the sixteenth century.

Prerequisite: FREN 302 or permission of instructor

## **FREN 304 - Survey of French and Francophone Literatures**

**Credit Hours: 3**

Surveys contemporary French-language literatures and their cultural contexts in French-speaking Africa, North America, and the Caribbean as well as in France.

Prerequisite: FREN 302 or permission of instructor

## **FREN 310 - Study Abroad Seminar**

**Credit Hours: 1**

Satisfies the study abroad requirement for the major. Students attend preparatory meetings and participate in assignments designed to maximize the value of the required study abroad experience. Before departure, students engage in readings and discussions. After study abroad, students submit a reflection paper and/or assigned written work related to their formal and informal learning gained during the stay.

## **FREN 325 - Topics in French Civilization**

**Credit Hours: 3**

Explores aspects of French civilization and culture, including history, religion, the arts, politics, and gender.

Prerequisite: FREN 212, its equivalent, or permission of instructor.

Repeatability: The course may be repeated for credit as the subject matter changes.

## **FREN 360 - Topics in French Language and Culture**

**Credit Hours: 1-3**

Provides an opportunity to study a linguistic, literary, or cultural topic related to the French-speaking world. Courses in topical areas not offered in the regular curriculum may be offered on a rotating basis.

Prerequisite: Sophomore standing and permission of instructor

Repeatability: The course may be repeated for credit as subject matter changes.

## **FREN 431 - French Culture Seminar**

**Credit Hours: 3**

Provides the advanced student the opportunity for in-depth study of an aspect of French or Francophone culture, which may include: literature, art, cinema, business culture, or another approved topic. The course serves as a capstone for the French major.

Prerequisite: Two French courses numbered above 302, at least one of which is taught in French, or permission of instructor.

## **GEOG 111 - World Regional Geography**

**Credit Hours: 3**

Introduces the eight major cultural regions of the earth. The course emphasizes the human adaptation patterns to variations in physical characteristics of the earth's environments. Special attention is given to human activities such as agriculture, population dynamics, resource development, economic systems, and religious expression.

## **GEOG 120 - Physical Geography**

**Credit Hours: 3**

An introduction to the earth's major natural environmental systems, their spatial distribution and interrelationships, including weather and climate, vegetation and ecosystems, soils, landforms, and earth-surface processes.

## **GEOG 220 - Earth's Climate System**

**Credit Hours: 3**

Designed to provide a broad introduction to climatology, the study of the average state of weather on planet Earth. Planetary energy budgets, regional climates, climate change, and past and future climates are emphasized.

## **GEOG 310 - Introduction to Geographic Information Systems**

**Credit Hours: 3**

Focuses on the theory and practical applications of geographic information systems (GIS). Basic concepts along with the following topics - map projections and coordinate systems; vector and raster data; data display; data analysis and modeling - are introduced.

Note: 2 hours of lecture and 1 hour of laboratory.

## **GEOG 321 - Weather and Climate**

**Credit Hours: 3**

Introduces meteorology and climatology. The course treats the subjects from both descriptive and theoretical points of view.

## **GEOG 331 - Regional Geography**

**Credit Hours: 3**

Studies the interrelationships among physical, economic, and cultural phenomena within various regions. A) Anglo-American geography, B) European geography, C) Latin American geography.

## **GEOL 101 - Introduction to Geology**

**Credit Hours: 4**

Studies forces, processes, and events which have shaped our physical environment.

Note: Laboratory and field trips.

## **GEOL 104 - Earth History**

**Credit Hours: 4**

Studies the methods and principles employed in deciphering the geologic history of the earth and the development of life. Emphasis is upon the geological evolution of the North American continent and the main features of the fossil record.

Prerequisite: GEOL 101 or 110

Note: Laboratory and field trips.

## **GEOL 105 - Geohazards**

**Credit Hours: 3**

An overview of the geological and human factors that contribute to natural disasters, including the role of plate tectonics in driving earthquakes, tsunamis and volcanic activity; the atmospheric and hydrological cycles and their role in weather and climate related disasters; and anthropogenic impact of human civilization on Earth processes and the potential effects on health, safety and property.

## **GEOL 110 - Environmental Geology**

**Credit Hours: 4**

Focuses on the interaction between humans and the geologic environment. Geologic phenomena, such as flooding, volcanoes, earthquakes, shoreline erosion, and soil erosion are examined. Environmental problems to be discussed

include groundwater pollution, geologic constraints on sewage and solid waste disposal, resource utilization, acid rain, and the greenhouse effect. Students gain a strong understanding of how geology influences many of these environmental problems.

Note: Laboratory and field trips.

## **GEOL 200 - Oceanography**

**Credit Hours: 3**

A broad study of the marine environment which emphasizes the interrelationships of living and non-living systems. Current concepts of ocean evolution are analyzed with respect to their physical, chemical, and biological importance.

Note: Laboratory and field trips.

## **GEOL 220 - Landform Evolution**

**Credit Hours: 3**

A comprehensive analysis of geological processes operating at or near the earth's surface. Topics include weathering, soil development, mass wasting and fluvial, glacial, eolian, and coastal erosion and deposition. Geomorphic systems are viewed primarily from a process-response perspective.

Note: Laboratory and field trips.

## **GEOL 230 - Introduction to Well Logging**

**Credit Hours: 3**

Focuses on understanding the different types of well logs, their purpose, and limitations. Case studies allow students to gain practical experience in well log interpretation and correlation.

## **GEOL 295 - Research Experience**

**Credit Hours: 1-3**

Offers course credit to freshman or sophomore students interested in geology, earth science, and/or geoscience who would like to obtain some research experience.

## **GEOL 301 - Mineralogy**

**Credit Hours: 4**

Deals with the physical properties of minerals. The course includes descriptive crystallography, optical mineralogy, and x-ray methods. Laboratory.

Prerequisite: Permission of instructor.

## **GEOL 302 - Igneous and Metamorphic Petrology**

**Credit Hours: 3**

Studies igneous, sedimentary and metamorphic rocks and their genesis.

Prerequisite: GEOL 101 or GEOL 110, GEOL 301

Note: Includes laboratory.

**GEOL 303 - Sedimentary Petrology**

**Credit Hours: 3**

A study of the petrology and petrography of sedimentary rocks. Emphasis is upon recognition, classification and interpretation of sediments via field methods and optical petrography.

Note: Laboratory and field trips. (2 CEUs)

**GEOL 311 - Paleontology**

**Credit Hours: 3**

Encompasses the taxonomy, morphology and recognition of stratigraphically-significant invertebrate fossils. Biostratigraphy, paleoecology, and the evolutionary history of organisms as viewed from the standpoint of the fossil record are also included. Micropaleontology, vertebrate paleontology, and paleobotany are introduced.

Prerequisite: Permission of instructor

Note: Laboratory and field trips.

**GEOL 313 - Structural Geology**

**Credit Hours: 3**

Deals with the mechanical principles of rock deformation and the resulting development of folds, faults, joints, and other tectonic features. The related causes and mechanisms of mountain building are also discussed, along with continental drift, sea floor spreading, and plate tectonics.

Prerequisite: GEOL 101 or GEOL 110, GEOL 104

Note: Laboratory and field trips.

**GEOL 322 - Sedimentology and Stratigraphy**

**Credit Hours: 3**

Studies the principles that govern the distribution and variability of sediments and sedimentary rocks. Emphasis is upon interpretation of source, mode of transport, and environment of deposition of sedimentary sequences by analysis of vertical and lateral variations in texture, composition, sedimentary structures, and geometry of sedimentary rock bodies.

Prerequisite: GEOL 101 or GEOL 110, GEOL 104

Note: Laboratory and field trips.

**GEOL 350 - Petroleum Geology**

**Credit Hours: 3**

Focuses on the specific aspects of petroleum geology, such as petroleum migration, seismic exploration and production geology, that are not covered in more general geology courses.

**GEOL 395 - Topics in Geology**

**Credit Hours: 1-4**

Provides the opportunity to pursue advanced studies in subjects not offered as formal courses. The department offers such studies in the areas of geomorphology, geochemistry, and other topics.

**GEOL 410 - Subsurface Geology**

**Credit Hours: 3**

Focuses on the major techniques used by exploration and production geologists to determine the nature of stratigraphic and structural variations in the subsurface. This course also incorporates computer techniques including Geographic Information Systems in the study of subsurface geology.

**GEOL 495 - Literature Seminar**

**Credit Hours: 2**

A part of the capstone for the geology major. Students develop arguments, lead discussions, and make oral presentations about current research in the geological sciences.

**GEOL 496 - Senior Research**

**Credit Hours: 3**

A part of the capstone for the Geology major. Students complete an intensive study of a selected problem in geology.

**GERM 111 - Beginning German I**

**Credit Hours: 3**

The first of two elementary-level courses intended to help students develop communicative as well as intercultural competence in German. This course is intended for students with no prior knowledge of German, or those who have had two years or less of high school German.

**GERM 112 - Beginning German II**

**Credit Hours: 4**

Builds on the skills acquired in GERM 111. Students will continue to develop an ability to communicate in real-life situations by acquiring additional reading, writing, listening, and speaking skills as well as cultural competency in the Germanic world. Students meet once a week with a language assistant from Germany.

Prerequisite: GERM 111 or 2-3 years of high school German

## **GERM 123 - Explorations in German Literature in English Translation**

### **Credit Hours: 3**

Taught entirely in English. The course includes a variety of literary genres from a cross-section of Germanic countries. Emphasis is on significant literary works ranging from the earliest to the most modern and their film adaptations.

## **GERM 211 - Intermediate German I**

### **Credit Hours: 4**

Continue the development of interpersonal, interpretive, and presentational skills through a variety of texts (journalistic, short story, poetry, advertising, film, etc.) that reflect the cultural, social, and linguistic diversity of the German-speaking world. Students explore the diversity of practices, products, and perspectives found within contemporary German-speaking societies. Topics may include gender, multiculturalism, ethnicity, family, religion, literature, art, music, gastronomy, education, economics, and politics. Students meet once a week with a language assistant from Germany.

Prerequisite: GERM 112 or its equivalent

## **GERM 212 - Intermediate German II**

### **Credit Hours: 4**

Continue the development of interpersonal, interpretive, and presentational skills through a variety of texts (journalistic, short story, poetry, advertising, film, etc.) that reflect the cultural, social, and linguistic diversity of the German-speaking world. Students explore the diversity of practices, products, and perspectives found within contemporary German-speaking societies. Topics may include gender, multiculturalism, ethnicity, family, religion, literature, art, music, gastronomy, education, economics, and politics. Students meet once a week with a language assistant from Germany.

Prerequisite: GERM 211

## **GERM 251 - German Table**

### **Credit Hours: 1**

Offers the opportunity to practice conversational German in an informal setting. Activities are designed to help students use the language creatively.

Prerequisite: GERM 111 or its equivalent

Note: The course may be taken three times for credit but applied to the major or minor only twice.

## **GERM 291 - Advanced German Table**

### **Credit Hours: 1**

A weekly meeting designed to expand vocabulary and increase the speaking proficiency of students at or above the advanced-intermediate level.

Prerequisite: GERM 212, its equivalent, or permission of instructor.

Note: Maximum number of German Table classes (GERM 251, 291, or a combination) that may be taken for credit: three. Maximum number of German Table classes that can be applied to the hours required for the major: two (can consist of two 251s; two 291s, or one of each).

### **GERM 301 - Advanced German: Conversation and Pronunciation**

**Credit Hours: 3**

Emphasizes listening and speaking skills. Students improve their comprehension and speech through laboratory exercises, class discussions, and other activities.

Prerequisite: GERM 212 or equivalent

### **GERM 302 - Advanced German: Grammar and Composition**

**Credit Hours: 3**

Emphasizes refinement of writing skills and good usage in German.

Prerequisite: GERM 212, its equivalent, or permission of instructor.

Note: Given different contracts, the course may be taken twice for credit.

### **GERM 303 - From the Middle Ages through the 19th Century**

**Credit Hours: 3**

Introduces German history from 750 to 1800. The course provides a cultural, literary, and historical survey from the age of Charlemagne to the Enlightenment.

Prerequisite: GERM 212 or permission of instructor

### **GERM 304 - From Expressionism to Post-War Literature**

**Credit Hours: 3**

Examines representative authors of the early 20th century, the literary resistance in the Third Reich, exile literature, and the emergence of a new German literature after 1945.

Prerequisite: GERM 302 or permission of instructor

### **GERM 310 - Study Abroad Seminar**

**Credit Hours: 1**

Satisfies the study abroad requirement for the major. Students attend preparatory meetings and participate in assignments designed to maximize the value of the required study abroad experience. Before departure, students engage in readings and discussions. After study abroad, students submit a reflection paper and/or assigned written work related to their formal and informal learning gained during the stay.

### **GERM 325 - Topics in Germanic Civilization**



**Credit Hours: 3**

Explores aspects of Germanic civilization and culture including history, the arts, architecture, religion, and literature in German speaking countries.

Prerequisite: GERM 212 or permission of instructor

Repeatability: The course may be repeated for credit as the subject matter changes.

**GERM 340 - Business German****Credit Hours: 3**

Concentrates on the vocabulary of business in German-speaking settings and intercultural awareness between the US and German-speaking countries. The emphasis is on reading, writing, translating, and fundamental oral communication skills in business settings. The course focuses on business topics pertaining to industry, marketing, finance, social welfare, the consumer in general and the environment, in the context of German business culture.

Prerequisite: One 300-level German language course or permission of instructor

**GERM 360 - Topics in German Language and Culture****Credit Hours: 1-3**

Provides an opportunity to study a linguistic, literary, or cultural topic related to the German-speaking world. Courses in topical areas not offered in the regular curriculum may be offered on a rotating basis.

Prerequisite: Sophomore standing and permission of instructor

Repeatability: The course may be repeated for credit as subject matter changes.

**GERM 431 - German Culture Seminar****Credit Hours: 3**

Provides the advanced student an opportunity to study in depth an aspect of Germanic culture, which may include: literature, art, cinema, business culture, or another approved topic. The course serves as a capstone for the German major.

Prerequisite: Two German courses numbered above 302, at least one of which is taught in German, or permission of instructor.

**HIST 101 - Topics in History****Credit Hours: 1-3**

Provides an in-depth look at a historical event, person, movement, or topic accessible to first and second-year students. Course readings will include both secondary sources and a wide variety of primary sources (e.g. written, visual, oral, audio, video, material culture). It combines a lecture-discussion format to the initial period (1-2 credits) with an opportunity for students to engage in direct research (1 credit) for the last several weeks of the semester. This directed research can take a variety of forms (paper, blog, podcast, film, etc.).

**HIST 105 - United States History to 1877**

**Credit Hours: 3**

Covers the period from the first Native American settlements to 1877, emphasizing the origin of the United States and the rise of democratic ideas and institutions.

**HIST 106 - United States History since 1877**

**Credit Hours: 3**

Deals with the period 1877 to the present, emphasizing the development of the United States as an industrial and a world power.

**HIST 110 - Pre-Modern World History**

**Credit Hours: 3**

Surveys selected aspects of World History from the beginning of civilization to the fourteenth century CE. Traces the political, economic, intellectual and cultural institutions and trends of various world societies of Asia, Africa, the Middle East, Europe and the Western Hemisphere.

**HIST 111 - The Emergence of the Modern World I**

**Credit Hours: 3**

Surveys selected aspects of World History from the fourteenth to the eighteenth century. Traces the political, economic, intellectual, and cultural institutions and trends of various world societies of Asia, Africa, the Middle East, Europe, and the Western Hemisphere.

**HIST 112 - The Emergence of the Modern World II**

**Credit Hours: 3**

Surveys selected aspects of World History from the eighteenth century to the present. Traces the political, economic, intellectual, and cultural institutions and trends of various world societies of Asia, Africa, the Middle East, Europe, and the Western Hemisphere.

**HIST 200 - History Career Field Experience**

**Credit Hours: 1-3**

This course allows students the opportunity to explore a variety of history-related career opportunities, enhance their professionalism, and develop a career network through visits to various sites (typically within driving distance of Muskingum University's campus). Students will be required to attend classes prior to a field visit to discuss a selected site's content, public history contribution and methodology, and the career possibilities to be highlighted. Faculty will evaluate each student based upon their discussion participation and written responses to assigned course readings, written reflections about the sites visited, follow up correspondence with selected sites' staff members, and development of professional portfolio.

Prerequisite: 28 earned credit hours and declared History major or minor, or permission of instructor. Due to this additional field experience, there may be additional costs associated with this course.

Note: Students may earn 1 credit hour per experience, with the possibility of 3 experiences per semester, and an

allowance for 4 credit hours applying to graduation requirements. Students receive one credit hour for 40 hours of work.

## **HIST 220 - US Women's History**

### **Credit Hours: 3**

Explores the history of American women from the colonial period to the present. Course topics address the changing political, social, and economic views of women's roles and responsibilities over time; the challenges and discrimination women faced (and continue to face) in the struggle to attain equal rights; and the diversity of women's experiences across race, ethnicity, class, and religion. Three of the most important questions that inform the course are: 1.) How did the "ideal" vision of womanhood mask the diversity of women's lives? 2.) Did all women share the same goals when it came to their position in American life? 3.) Did the passage of time always signal progress? Students use a survey text of American women's history and a host of primary source documents from the time periods under study as they read, write about, and discuss the topic over the course of the semester.

## **HIST 230 - The American Civil War**

### **Credit Hours: 3**

Employs a wide variety of secondary and primary sources to examine the causes, development and consequences of the American Civil War.

## **HIST 240 - The Holocaust**

### **Credit Hours: 3**

Provides an overview of the state-sponsored murder of millions of Jews and non-Jews by the Nazis and their collaborators during World War II. It examines important historical factors that occurred before the Third Reich's rise to power, the development of policies aimed at Jews and other "undesirable" elements of the population and how those persecuted responded to them, the path of the Final Solution, and the aftermath and legacy of the Holocaust.

## **HIST 245 - The First World War**

### **Credit Hours: 3**

Provides an overview of the conflict, beginning with the war's origins and includes its global reach, particularly through the colonial empires of the European powers. It traces the path of the conflict from 1914-1918, focusing on major battles on land and at sea, and discusses the major military innovations of this era. It examines changes on the home front as well as how the home front had an impact on the war front and vice versa. It analyses the war's political, demographic, and cultural impact, including its representations in literature, poetry, and film.

## **HIST 250 - Study Abroad Seminar**

### **Credit Hours: 3**

The opportunity to study outside the United States enhances student's knowledge and understanding of history and world cultures. In conjunction with an approved study abroad trip, students will attend pre-trip informational and organizational meetings. While traveling, they will complete readings and/or written work and participate in group discussions. Upon return, students will submit a reflection paper that describes their activities, discusses their experiences and considers what was learned (both during organized excursions and more information activities).

## **HIST 260 - The Cold War in the Americas**

### **Credit Hours: 3**

Examines the influence of the Cold War on Latin America and the United States, seeking to understand the complex and often fraught relationship between Washington and the nations of Latin America. After tracing the evolution of hemispheric relationships from independence to the mid twentieth century, the class explores how the ideological battle between communist and anti-communist forces shaped the development of regional relationships in the Americas. Revolution, guerilla warfare, counter-insurgency, as well as everyday struggles over press freedom and foreign investment, shaped the lives of Americans north and south of the equator. Students will encounter the changing historiography of US-Latin American relations, learning not only about policy choices and responses at the government level, but also how the Cold War shaped the way that the peoples of Latin American and the United States viewed one another, and how culture was shaped by these interpretations.

## **HIST 271 - Race, Ethnicity, and Identity in the Americas**

### **Credit Hours: 3**

This course investigates the construction and conceptualization of race, ethnicity, and other markers of identity across the Americas through the evaluation of primary and secondary sources, ranging from historical monographs to novellas to film clips to oral histories. The course establishes the historical underpinnings of contemporary topics related to race, ethnicity, and identity and asks students to demonstrate historical thinking in their assessment of links between the past and the present.

## **HIST 300 - Historical Research Methods**

### **Credit Hours: 3**

Introduces students to the basic skills of historical research and writing. The skills include using databases, locating and evaluating primary and secondary sources, developing a thesis, employing evidence, and proper citation.

Prerequisite: Completion of two of the following courses: HIST 105, HIST 106, HIST 111, HIST 112

## **HIST 310 - Ancient History**

### **Credit Hours: 3**

Provides an overview of the history of western civilization between c. 4000 BCE and 500 CE. Topics include political institutions, belief/religion, intellectual culture, interactions between societies, and daily life in Mesopotamia, Egypt, Greece, and Rome. It also traces the transformation from Antiquity to the Middle Ages and the role of the so-called barbarians in this transition.

## **HIST 318 - Nineteenth Century Europe**

### **Credit Hours: 3**

This course covers the long nineteenth century (1789-1914), beginning with the French Revolution and its short and long-term political, social, economic, and cultural implications, including Napoleon. Course materials focus on examining the key building blocks of the First and Second Industrial Revolutions and explaining their political, social, economic, and cultural impact; the emerging ideologies of the nineteenth century (conservatism, liberalism, socialism, and Marxism) and how these interacted through the Revolutions of the 1820s, 1830, and 1848; the development of

modern nationalism and its implications for power shifts and state building within Europe; the goals, methods, and justifications for European imperialism and its impact both on mother countries and colonies; and the shifts in gender roles, societal organization, and government control and their implications.

## **HIST 320 - Twentieth Century Europe**

**Credit Hours: 3**

This course covers European History from 1914 through the end of the twentieth century. Course materials focus on the causes, path, and results of the First World War and its longterm legacy for Europe; the development of totalitarian states across Europe in the interwar period, including both fascist and communist regimes; the causes, path, and results of the Second World War; the development, expansion, and demise of the Cold War from political, economic, cultural, and social perspectives; the processes of European mother countries attempting to hold on to and/or divest themselves of their colonial empires and the long-term implications thereof; the pivotal role of the 1960s as a decade of protest and resistance against systems of authority across Europe and its long-term consequences; and the path and results of European integration and the revolutions of 1989.

## **HIST 322 - Gender and History**

**Credit Hours: 3**

Introduces students to the use of gender as a historical category of analysis. It encourages students to integrate theory and practice to explore both historical sources (primary and secondary) and historical explanations more deeply through the lens of gender. It explores the social constructions of categories such as feminine and masculine and examines how these binary divisions have had an impact on people, policies, and institutions. It probes the relationship between these categories of analysis and constructions of power and examines how gender has influenced societal constructions of hierarchy, asymmetry, and difference. Topics will include witch trials, industrialization and its impact on work, dueling, reproductive rights and control, betrothal and marriage rituals, civil rights and civil liberties, imperialism, genocide, consumer culture, and wartime experiences. While the focus of this course is on gender, it also includes the diversities of ethnicity, age, and sexual orientation.

## **HIST 344 - East Asian History to 1800**

**Credit Hours: 3**

Examines the origins and development of traditional civilizations of China and Japan to the 19th century. This course emphasizes the development of the Confucian state and society, the rise of Imperial China, the emergence of aristocratic culture in Japan, the transition to Samurai rule, and early contact with the West.

## **HIST 345 - The Second World War**

**Credit Hours: 3**

Examines the origins, course, and impact of the Second World War. Beginning with an investigation of the causes leading up to the war, it traces the conflict through the major military campaigns, giving attention to operations in Europe, North Africa and the Pacific. The course examines strategic, doctrinal, and technological developments as well as the war's impact on civilian populations and the manner in which the conflict transformed selected economic, social, cultural and political realities of domestic life for the major combatants.

## **HIST 346 - Southeast Asian History**

**Credit Hours: 3**

Covers the development of Southeast Asia (Indonesia, Malaysia, Singapore, Thailand, Vietnam, Cambodia, Laos, Burma, the Philippines, and East Timor) in the historical context of conflict between the indigenous societies and the global community of the colonial powers. The course contextualizes and examines the pre-colonial order, the colonial powers in SEA, World War II, and post-war independence movements. Political, social, and intellectual trends with an emphasis on the diversity of experiences are highlighted, but the course is intended as an introduction to a broad and diverse region of the world.

**HIST 347 - Modern China****Credit Hours: 3**

Examines China's evolution from an imperial state to a revolutionary society dominated by the Chinese Communist Party. Attention is paid to political attitudes and elements of society and culture in contemporary China that reflect links to a past that remained influential both as an inspiration and a stumbling block as China remade itself in the twentieth century. In addition, the course explores discontinuities in modern Chinese history brought about by wars, imperialism, revolution, industrialization, and the other forces that decisively altered the underpinnings of Chinese society. This course's reading and lectures are built upon five major themes: foundation and success of early Qing dynasty, peasant rebellion and Western imperialism, reform and revolution in the twentieth century, Republican China and its challenges, and the birth and development of the PRC.

**HIST 348 - The Western Impact on Modern Japan****Credit Hours: 3**

Explores the three ways Japan has become an empire during the past two centuries: through the restoration of imperial rule in the nineteenth century, through its imperialist expansion in Asia during the early twentieth century, and through its emergence as a global economic power in the post-War order. To understand these developments, one must examine the interplay between the internal dynamics of change in Japanese society, culture, and politics, on the one hand, and the impact of the West on Japan during these formative events. This course addresses how indigenous changes in Tokugawa Japan interacted with pressure from Western Imperialism to cause the imperial restoration and reforms as well as addressing the relationship between Japan's imperial expansion and rule at home.

**HIST 350 - Colonial Latin America****Credit Hours: 3**

Examines the process of encounter between the Old and New Worlds. It focuses initially on Pre-Columbian and Iberian societies prior to 1492, and it examines the social, political, cultural, and economic impact of Spanish and Portuguese colonizations in South America. It devotes particular emphasis to countries such as Mexico, Peru, and Argentina from the colonial to the national periods.

**HIST 351 - Modern Latin America****Credit Hours: 3**

Emphasizes the historical developments which followed political independence in 1810. It centers around the impact of Iberian colonization on contemporary forms of political, social, and economic organization in both Meso- and South America. Themes such as development, social inequality, racial identities, imperialism, and authoritarianism surface frequently as the course moves into the contemporary period.

## **HIST 352 - Latin America Film and History**

**Credit Hours: 4**

Studies film as a means to understanding the history of the region. Using film critique and analysis, as well as primary documents and secondary sources, students examine the ways in which films illuminate important themes in Latin American history. Topics include indigenous societies, the European conquest, African slavery, immigration, the relationship between Latin American nations and the international community, and the role of race, gender, and ethnicity in the creation of national identity.

## **HIST 353 - History of Mexico, Pre-Columbian to Present**

**Credit Hours: 3**

Traces the history of this important Latin American country from the Pre-Columbian era to the present. It focuses on the merging of native groups, such as the Aztecs and the Mayans, with the Spanish colonizers, forming a unique society in the New World. Mexico's distinctive historical phases, from colonization to independence, are also closely examined to deepen the understanding of the 1910 Revolution and its course throughout the twentieth century.

## **HIST 356 - History of Modern Africa**

**Credit Hours: 3**

Surveys the history of Africa with emphasis on sub-Saharan Africa in the period after 1800. Topics include state formation, African systems of belief, colonialism and its legacy, labor, migration, and the struggle against Apartheid in South Africa.

## **HIST 360 - Historical Research Methods**

**Credit Hours: 1-3**

Provides advanced undergraduates with the opportunity to conduct independent research. This research can include deep reading and writing on a specific historical topic or theme that is not offered within the regular curriculum, working with a faculty member on a collaborative research project, and/or conducting research either on campus or off-site for a specific project.

Prerequisite: HIST 300

## **HIST 372 - Empires of North America**

**Credit Hours: 3**

Examines the colonization and conquest of North America from the sixteenth through the nineteenth centuries. The course employs a comparative approach to the study of North American empires in this era, examining their internal governance and interactions with their neighbors. The course examines both empires constructed by indigenous peoples, such as the Comanche and Iroquois empires, as well as those constructed by European nations, such as the British, French, Spanish and Dutch empires in North America.

## **HIST 374 - Ohio History**

**Credit Hours: 3**

A survey of the economic, cultural, political, and social history of Ohio, from prehistoric time to the present.

## **HIST 375 - Nearby History**

**Credit Hours: 4**

Provides students with the opportunity to produce histories of local subjects while employing a range of sources. These will include conventional text, image and data-based sources, but the course will require the student to read the built and natural landscapes around them as texts. The course will take place in the classroom but also includes three full Saturday sessions in the field at different locations around the region and state.

## **HIST 376 - The American Revolution**

**Credit Hours: 3**

Examines the American Revolution broadly, from 1763-1815. It examines the sources of conflict in Britain's North American empire, the decision of thirteen British colonies to seek independence, and the gradual emergence of a distinct American national identity. It also explores the progress of the war on the military front and the efforts to secure and stabilize the Revolution by political means in the years after independence was achieved. The course ends with a discussion of the War of 1812 as an epilogue to the American Revolution.

## **HIST 378 - Gender and Sexuality in American History**

**Credit Hours: 3**

Evaluates the changing interpretations of gender and expressions of sexuality in American history from the time of first contact between Europeans and Native Americans. Introducing students to the idea that gender is not a fixed category but rather a concept shaped by culture, the course examines a variety of populations and time periods in US history to highlight the changing understandings of masculinity, femininity, gender identity, and sexual behavior

## **HIST 379 - Youth in Modern America**

**Credit Hours: 3**

Investigates US history through the lens of youth experiences. This course examines media, education, and the marketplace to illuminate the changing understandings and expectations of the youth population. The shared - and sometimes conflicting - messages of these influences reveal goals, tensions, and contradictions of broader American culture and society.

## **HIST 380 - The History of the American Dream**

**Credit Hours: 3**

Traces the evolution of the concept of the American Dream from the time of the nation's founding to the present day. Examining elite culture and political views as well as individual perspectives, the course investigates populations who enjoyed easy access to benefits of the Dream as well as those who found the Dream elusive or unfulfilling. Establishing the Dream as a flexible ideal, interpreted and reinterpreted across generations, this course allows students to develop an argument about the Dream's core components through the exploration of primary source evidence.



## **HIST 381 - 1950s America**

### **Credit Hours: 3**

Analyzes the history of the 1950s through the lenses of an idealized American Way of Life, alternatives to that ideal, and as a product of historical memory. Topics include suburbanization; the nuclear family and domestic life; expectations of sex and gender; the influence of popular and material culture; generational tensions; the Cold War; and Civil Rights and other rights-based movements. Through examination of historians' evaluations and primary source evidence of the time period under study, this course allows students to identify how historical narrative and popular views of the past are constructed - both by those living during the time and those who look back on the era.

## **HIST 382 - 1960s and American Film**

### **Credit Hours: 4**

Evaluates the history of 1960s America with primary focus on social and cultural reflections of contemporary issues via major motion pictures of the time. Analysis and review of the films are informed by historical investigation of the 1960s as a whole. The course is intended both to complicate and complement popular views of the decade as students consider major themes that shaped American film: racial conflict and Civil Rights; the Cold War; and challenges to conventional ideas and established authority. Students think critically about assigned films and evaluate them - via both written work and class discussion - as primary source evidence of 1960s America.

## **HIST 385 - American Environmental History**

### **Credit Hours: 3**

Studies human societies and their relationship to their environment over time. The focus is on the environmental history of North America from pre-Columbian times to the present. Topics explored include the Columbian exchange, evolving concepts of man's relationship to nature, the government's role in conservation and preservation, and the emergence of an environmental movement in recent decades.

## **HIST 390 - Topics in History**

### **Credit Hours: 3**

Deals with selected topical courses such as Early Warfare or Conspiracy in US History.

## **HIST 395 - Public History and Memory**

### **Credit Hours: 3**

Allows students to critically examine the past as it is presented in sites of public commemoration. These may include national historic parks, battlefields, museums, living history sites and public monuments. The course is offered only as a part of University approved domestic and foreign study trips.

## **HIST 398 - Internship in History**

### **Credit Hours: 1-3**

Designed to offer students supervised history-related work experience.

Prerequisite: Prior permission of the instructor

## **HIST 420 - Readings in History**

**Credit Hours: 3**

Permits students to explore historical topics in depth under the direction of a faculty member.

Prerequisite: Junior or senior History majors or permission of the instructor

## **HIST 460 - History Research Seminar**

**Credit Hours: 3**

Emphasizes methodological and bibliographical research techniques in the discipline of history. Students research and write on specific topics to meet acceptable standards of historical analysis and style.

Prerequisite: Junior or senior History majors or permission of instructor

## **HLSC 101 - Introduction to Health Sciences**

**Credit Hours: 1**

Designed to orient students to various fields of study in the Health Sciences. The course explores health, fitness, exercise, and management professions. Emphasis is on wellness, acute care, long term care, public health and personal fitness.

## **HLSC 110 - Medical Terminology I**

**Credit Hours: 1**

Provides a basic overview of the medical language and terminology used by health care professionals. Basic word roots, prefixes and suffixes, terms denoting human body orientation, and terms related to specific organ systems, are examined.

## **HLSC 111 - Medical Terminology II**

**Credit Hours: 1**

Builds on the prefixes, suffixes, and word roots mastered in Medical Terminology I by exposing students to additional medical vocabulary, including signs, symptoms and diseases, medical procedures, and pharmacology related to the various organ systems. Students are also exposed to common abbreviations used in medical records.

Prerequisite: HLSC 110

## **HLSC 151 - Global Health**

**Credit Hours: 3**

Provides an overview of major issues in global health, including equity, social justice, concern for the poor and the

marginalized, and the importance of value for money from investments in health. Students gain a better understanding of the progress made in addressing global health problems, as well as remaining challenges and what must be done to address them.

Prerequisite: HLSC 110

## **HLSC 201 - Introduction to Health Administration**

**Credit Hours: 3**

This course provides a foundation in health administration. The course introduces them to the structure and functions of the U.S. Health Care System. The course introduces the challenges of administration within the U.S. Health Care System as influenced by the community and its environment. An introduction to models of management within health care is covered as well.

## **HLSC 301 - The American Health Care System**

**Credit Hours: 3**

Explores the major themes and issues of health care in the U.S. including health care policy, finance, risk management and quality improvement, government regulations, and the insurance industry.

## **HLSC 304 - Statistics for the Health Sciences**

**Credit Hours: 3**

Provides the foundations of statistics with special application for students in the health sciences. Topics include both descriptive and inferential statistics, probability theory and research design. Emphasis is placed on understanding how statistics are used by health practitioners and interpreting the results.

## **HLSC 305 - Health Informatics**

**Credit Hours: 3**

Explores the use of information technology in health care practice, education, administration, and research. Topics addressed include how and why information systems are developed and used, the identification and utilization of informatics approaches and tools, as well as how data is acquired, processed, generated, and disseminated.

MAP Only: X

## **HLSC 307 - Health Communication and Promotion**

**Credit Hours: 3**

Provides a basic overview of the role communication plays in shaping health promotion and disease prevention messages to individuals, groups and the general public. The role of mass media in health communication and promotion is explored. Goals and strategies of health promotion are reviewed along with evaluation activities. Students are expected to identify a specific population and develop a health promotion project for that group.

## **HLSC 308 - Community Health**

**Credit Hours: 3**

This course studies the health problems affecting entire communities and school settings, with particular focus on environmental issues, communicable disease control, and risks of community living. Specific emphasis is placed on the role of public health agencies in health promotion and disease prevention.

**HLSC 312 - Social Gerontology**

**Credit Hours: 3**

Provides an overview of the processes of aging. Emphasis is placed on "typical" aspects of aging from three perspectives: the aging individual, the social context of aging, and societal responses to an aging population.

**HLSC 315 - Public Health and Epidemiology**

**Credit Hours: 3**

Provides an overview of the basic principles of public health and their application to the development of activities that benefit the health status of populations. Concepts of epidemiology, biostatistics, and health care planning, policy development and assessment are also examined.

**HLSC 322 - Health Policy**

**Credit Hours: 3**

Provides a comprehensive review of the health policymaking process and current debates. A historical perspective of health policy is reviewed. Students are introduced to the process of health policy development and implementation and have the opportunity to analyze a current policy and its effects on a health care organization or special interest group in their local community.

**HLSC 326 - Health Care Finance**

**Credit Hours: 3**

Provides a general overview of how the health care finance system works in the United States. Essential components of healthcare finance are explored. Students have an opportunity to analyze financial data, systems and processes and to identify performance improvement opportunities for enhancing revenue growth and expense reduction.

**HLSC 330 - The Human Body: Structure and Function**

**Credit Hours: 3**

Focuses on body organization, support and movement, and structural physiology. Topics include the chemical and cellular basis of human life, the integration of body functions and homeostasis, and the structure and function of the various body systems including nervous, endocrine, musculoskeletal, cardiovascular and integumentary.

MAP Only: X

**HLSC 331 - Nutrition and Health**

**Credit Hours: 3**

Provides a basic overview of the role nutrition and diet play in health. Fundamental aspects of nutrients and digestive processes are examined. Nutrition and its implications for disease are also addressed.

**HLSC 340 - Instrumental Clinical Chemistry**

**Credit Hours: 3**

Focuses on the chemical theories and principles of instrumental analysis as they apply to clinical chemistry and the work of the clinical laboratorian. The topics covered will provide an understanding of the selection procedure, quality control, and quality improvement of analytical methods of analysis. The theoretical operation and applications of these analysis methods will be considered.

MAP Only: X

**HLSC 341 - Applied Clinical Biochemistry I**

**Credit Hours: 3**

Focuses on the theory and principles of clinical chemistry, and associated application and instrumentation especially as it pertains to disease states. Focus is on carbohydrate metabolism, protein function, endocrinology, and tumor markers.

MAP Only: X

**HLSC 342 - Applied Clinical Biochemistry II**

**Credit Hours: 3**

Focuses on the theory and principles of clinical chemistry, and associated application and instrumentation especially as it pertains to disease states. Focus is on acid base, electrolytes, home derivatives, lipids, therapeutic drug monitoring, drugs of abuse and toxicology.

MAP Only: X

**HLSC 345 - Personal Health**

**Credit Hours: 3**

This course studies the health problems and concerns of young adults in America today. Topics of study will include stress management, emotional health, chemical dependency, sexual responsibility, physical fitness, heart disease, cancer and communicable diseases. The primary focus will be upon prevention, with students being encouraged to make lifestyle choices conducive to lifelong wellness.

**HLSC 351 - Occupational Science**

**Credit Hours: 3**

Explores the tenets, vocabulary, and research within the field of occupational science. It is designed to prepare the student to utilize occupation-based assessment tools; and to use occupational science research to enhance clinical reasoning and develop basic occupational therapy programming.

Prerequisite: Permission of instructor  
MAP Only: X

### **HLSC 395 - Professional Seminar**

**Credit Hours: 1**

This course provides students with the skills, knowledge and preparation to become a professional in the health science field with a focus on health administration.

### **HLSC 396 - Health Administration Internship**

**Credit Hours: 3-6**

For every credit hour students are required 40 hours of practical experience, written reflections, and other work in the field of Health Administration. Student will be placed with health care facilities under the direction of department faculty.

Prerequisite: HLSC 395  
Note: Recommended for the junior year.

### **HLSC 406 - Legal Issues in Healthcare**

**Credit Hours: 3**

Provides a basic understanding of healthcare law. Essential components of healthcare law will be addressed in accordance with how the law impacts the health system from a strategic and operational perspective. Students will have the opportunity to analyze and discuss specific cases that pertain to the topics covered. Best practice strategies for the prevention and management of legal claims will be provided.

MAP Only: X

### **HLSC 408 - Topics in Health Sciences**

**Credit Hours: 3**

Selected courses which are not offered as part of the existing Health Science Department curriculum.

Prerequisite: Permission of the instructor

### **HLSC 409 - Readings in Health Science**

**Credit Hours: 1-3**

Offers the student an opportunity to read extensively and discuss with department faculty topics not offered as a part of the existing Health Science Department curriculum.

Prerequisite: Permission of the instructor

### **HLSC 415 - Advanced Epidemiology**

**Credit Hours: 3**

Provides an in-depth investigation into epidemiologic methods, building upon the foundations explored in HLSC 315. Both descriptive and analytical epidemiology are covered, including measures, study design, and data interpretation. The impact of ethical principles and public policy on the practice of epidemiology is also considered.

Prerequisite: PSYC 232 or HLSC 304; HLSC 315

## **HLSC 453 - Elder Cognitive Health & Wellness**

**Credit Hours: 3**

Designed to explore the factors that interplay and affect the functional cognitive ability of elder populations. This course focuses on the use of occupational profiles, interpretation of cognitive levels/scores, and implementation of adaptive strategies to optimize elder cognitive functioning.

Prerequisite: HLSC 351

MAP Only: X

## **HLSC 455 - Sensory Function Across the Lifespan**

**Credit Hours: 3**

Focuses on sensory systems, sensory processing, and the sensory basis of occupational engagement from birth through elder years. Students will review basic understanding and assessment of sensory processing, and learn methods for optimizing occupational engagement using sensory integrative and occupational adaptation approaches.

Prerequisite: HLSC 351

MAP Only: X

## **HLSC 495 - Seminar in Health Science**

**Credit Hours: 3**

A capstone course for students completing any of the Health Science majors. Students will engage in an in-depth research study or practicum that links together their general course work, their specialized training and their clinical experience. The topic will be selected in consultation with the supervising faculty member.

Prerequisite: Permission of Department Chair

MAP Only: X

## **HLSC 496 - Seminar in Public Health Studies**

**Credit Hours: 3**

A capstone for Public Health Studies majors. The student will engage in the development of a research proposal or public health practicum to provide a practical application of their general coursework. The research topic/practicum placement will be selected in consultation with the supervising faculty member.

Prerequisite: Permission of Department Chair

## **HLSC 497 - Seminar in Health Administration**

### **Credit Hours: 2**

A capstone course for Health Administration majors. The student will engage in the development of a research proposal or public health practicum to provide a practical application of their general coursework. The research topic/practicum placement will be selected in consultation with the supervising faculty member.

Prerequisite: Permission of Department Chair

## **HLTH 400 - Health Curriculum, Methods, and Materials**

### **Credit Hours: 3**

This course investigates the planning, organization, and how to use health education content and teaching strategies. Special emphasis is placed upon various types of curricular approaches that allow for teaching behaviors found to be conducive to learner achievement in health education.

Field Hours Requirement: 20

## **IDIS 160 - Introduction to Film Studies**

### **Credit Hours: 3**

Guides students through the basics of film studies. Course instruction includes such topics as cinema history, filmmaking techniques, and film criticism.

## **IDIS 230 - Emerging Leaders**

### **Credit Hours: 1**

Is an introductory leadership experience that helps students build and practice skills necessary to become effective leaders both while in college and in preparation for roles and responsibilities in future careers. This experience is led by University staff and/or faculty.

Note: Students may earn one credit hour per experience with a maximum of four credit hours applying to graduation. Graded S/U.

## **IDIS 240 - Introduction to American Studies**

### **Credit Hours: 3**

Offers an interdisciplinary study of the values, beliefs, cultures, and social systems of the United States and its many diverse populations. The course integrates a variety of methods and disciplines to help develop skills in critical analysis, communication, cultural knowledge, and self-reflection that contribute to students' desire to shape the world beyond the university setting. Through examination of popular, artistic, and political culture, market trends, and the public and private experience of Americans, past and present, the course explores the values and beliefs that have shaped the experience of American people across race, class, gender, ethnicity, and region.

## **IDIS 250 - Career Field Experience**



**Credit Hours: 1-2**

Involves an introductory supervised experience in a vocational field. The experience is closely supervised by a faculty member and an on-site supervisor. This initial experience provides a gateway to a vocational and/or academic field and may serve as a preparation for future internships. Students may earn 1-2 credit hours per experience, with a maximum of 4 credit hours applying to graduation requirements. Students receive one credit hour for 40 hours of work. Graded S/U.

Prerequisite: 28 earned credit hours and at least a 2.0 cumulative GPA

**IDIS 260 - Topics in Film Studies****Credit Hours: 1**

Explores in detail a specific topic, genre, or area of film studies. This seminar-style course combines required readings with viewings of selected films.

Note: Film studies minors are required to take this course twice.

**IDIS 275 - Arts and Humanities in Western Culture****Credit Hours: 3**

Fosters an appreciation of the landmarks of the Western cultural heritage in religion, philosophy, language and literature, the visual arts and architecture, music, and theatre.

**IDIS 291 - Introduction to Gender Studies****Credit Hours: 3**

Introduces selected topics in gender studies. Inclusive of all disciplines and team-taught by gender studies faculty, the course gives an orientation into the field through reading, writing, and discussion.

**IDIS 300 - Internship****Credit Hours: 1-6**

Involves a supervised experience in a vocational field related to a program of study. The program is closely supervised by faculty members and by an on-site director. Students may earn 1-6 credit hours for each distinct internship, with a maximum of 16 hours including, student teaching, applying to graduation requirements. Graded S/U.

Prerequisite: Junior standing, 2.5 GPA. The junior standing prerequisite is waived for students participating in Disney internships.

Note: Students may earn 1-6 credit hours for each distinct internship, with a maximum of 16 hours including, student teaching, applying to graduation requirements. Graded S/U.

**IDIS 360 - Pre-Law****Credit Hours: 1**

Is an analysis of the Law School Admission Test, the Law School Data Assembly Service, and the Law School

Candidate Referral Service. Students take a sample examination under conditions approximating those of the LSAT.

Prerequisite: Junior standing

Note: Graded S/U.

## **IDIS 491 - Seminar in International Business**

**Credit Hours: 3**

Enables the student to pursue an approved research project involving international business practice and theory. Students are strongly encouraged to work with advisors to develop seminar topics/approaches that synthesize language and business skills and that demonstrate appropriate intercultural competencies.

Prerequisite: Completion of the International Business major business core

## **IDIS 492 - Humanities Senior Seminar**

**Credit Hours: 3**

Involves work necessary for the completion of the senior seminar, resulting in an extensive written research project in which the student formulates a question to study, proposes a thesis to be argued, and presents support for that thesis in the final paper.

## **INFR 310 - Foundations of Information Systems**

**Credit Hours: 3**

Introduces students to contemporary information systems and the roles these systems play in modern organizations. The focus is on the key components of information systems (people, processes, data, and technologies) and the issues of building, acquiring, managing, and safeguarding information systems to create competitive advantage.

Prerequisite: Departmental Faculty Approval

MAP Only: X

## **INFR 320 - IT Infrastructure**

**Credit Hours: 3**

Focuses on the services and capabilities that IT infrastructure provides to an organization. It aims to provide knowledge and skills needed to communicate effectively with other IT professionals whose special focus is hardware and software technology. It emphasizes internet-based solutions, computer and network security, business continuity, and the role of infrastructure in regulatory compliance.

Prerequisite: INFR 310, CPSC 111

MAP Only: X

## **INFR 330 - Systems Analysis & Design**

**Credit Hours: 3**

Covers systematic approaches for analyzing a business problem or opportunity, determining what role, if any,

information technology can play in addressing the business need, and articulating business and technical requirements for the information systems solution.

Prerequisite: INFR 310 and CPSC 365  
MAP Only: X

## **INFR 340 - Information Systems Project Management**

**Credit Hours: 3**

Discusses the processes, methods, techniques, and tools that organizations use to manage information systems projects. This course covers a systematic methodology for initiating, planning, executing, controlling, and closing projects.

Prerequisite: INFR 310  
MAP Only: X

## **INFR 410 - Enterprise Architecture**

**Credit Hours: 3**

Explores the design, selection, implementation, and management of enterprise IT solutions and their fit with the business. Attention is given to the architectures (of applications and infrastructure) that support large and small organizations, and considers solutions both within and beyond the organization.

Prerequisite: INFR 310, INFR 340  
MAP Only: X

## **INFR 495 - IS Strategy, Management and Acquisition**

**Credit Hours: 4**

Explores the issues and approaches in managing the information systems function in organizations and how the IS function integrates / supports / enables various types of organizational capabilities.

Prerequisite: INFR 330, INFR 340, INFR 410  
MAP Only: X

## **JOURN 101 - Journalism Practica**

**Credit Hours: 1**

Provide laboratory or workshop experiences in journalism writing and design.

Restrictions: maximum of two Journalism practica hours per year; maximum of four Journalism practica hours toward major or minor.

Note: Registration is with the journalism coordinator at final registration.

## **JOURN 201 - Journalism Practica**

**Credit Hours: 1**

Provide laboratory or workshop experiences in journalism writing and design.

Restrictions: maximum of two Journalism practica hours per year; maximum of four Journalism practica hours toward major or minor.

Note: Registration is with the journalism coordinator at final registration.

## **JOURN 207 - Print Writing and Reporting**

**Credit Hours: 3**

Provides an introduction to the principles and concepts of writing and reporting for print media and the web. It involves reporting, interviewing, doing background research, writing, and analyzing news stories, and introduces students to journalistic ethics and codes of conduct.

Prerequisite: ENGL 121

Cross Listed As: ENGL 207

## **JOURN 208 - Editing and News Design**

**Credit Hours: 3**

This course covers the fundamentals of copy editing, including proofreading, headline writing, caption writing, grammar, and punctuation. This course also introduces students to print and digital news design.

Prerequisite: JOURN 207

## **JOURN 219 - Photojournalism**

**Credit Hours: 3**

Covers the use of digital photography in journalism, with a focus on journalistic storytelling, digital photo editing, and legal and ethical concerns for photojournalists.

Prerequisite: MEDIA 150 or permission of instructor

## **JOURN 301 - Journalism Practica**

**Credit Hours: 1**

Provide laboratory or workshop experiences in journalism writing and design.

Prerequisite: Permission of Instructor

Restrictions: maximum of two Journalism practica hours per year; maximum of four Journalism practica hours toward major or minor.

Note: Registration is with the journalism coordinator at final registration.

## **JOURN 399 - Internship**

**Credit Hours: 3**

Involves a supervised experience in the student's major. The program is closely supervised by faculty members and an

on-site director.

Prerequisite: Junior standing, 2.5 GPA and instructor permission.

Cross Listed As: DMD 399, MEDIA 399, PBRL 399

Note: Credit counts as 3 of the 16 internship hours which may be applied to graduation requirements. Graded S/U.

## **JOURN 401 - Journalism Practica**

### **Credit Hours: 1**

Provide laboratory or workshop experiences in journalism writing and design.

Prerequisite: Permission of Instructor

Restrictions: maximum of two Journalism practica hours per year; maximum of four Journalism practica hours toward major or minor.

Note: Registration is with the journalism coordinator at final registration.

## **JOURN 495 - Seminar**

### **Credit Hours: 3**

Exposes students to an intensive study in a selected area of emphasis. The first four weeks are devoted to the development of a project prospectus. The remainder of the semester is given to independent study under the guidance of an appropriate instructor.

Prerequisite: MEDIA 308 and MEDIA 365

## **LIBR 220 - Beyond Google: Research Skills and Resources**

### **Credit Hours: 3**

Introduces students to research and information literacy skills, emphasizing the strategies needed for effective research in the digital age. Students learn to communicate the results of their research effectively and ethically.

## **LIBR 301 - Archival Research: Special Topics**

### **Credit Hours: 3**

Introduces students to the fundamentals of archives and archival research. Students then apply this knowledge as they conduct research within an archive (for example, Muskingum's, John Glenn's at Ohio State, or any number of online archives). Students will be introduced to the background information (historical, social, legal, etc.) necessary to contextualize the archival materials.

## **MATH 100 - Transitional Algebra**

### **Credit Hours: 2**

Develops algebraic concepts and skills needed to graph and solve linear equations and inequalities. Evaluating algebraic expressions and formulas according to the rules of operations is also developed. Not open to students with credit for a higher level math course.

Prerequisite: ACT Math 17 or below or SAT Math 470 or below

## **MATH 140 - Practical Statistics**

**Credit Hours: 3**

Is an introduction to statistical ideas, reasoning, and methods with the goal of equipping students with the ability to carry out common statistical calculations and procedures in order to be able to understand how statistical concepts are applied in other fields of study and by future employers.

Prerequisite: MATH 100 or ACT Math 18 or higher or SAT Math 471 or higher

## **MATH 150 - Quantitative Reasoning for the Liberal Arts**

**Credit Hours: 3**

Studies various quantitative concepts in mathematics, such as sets, counting methods, probability, statistics, functions, matrices, graphs, and trees; and applies these concepts either to a variety of different disciplines or to a single subject centered on a theme. Not open to students with credit for 240.

Prerequisite: MATH 100 or ACT Math 18 or higher or SAT Math 471 or higher

## **MATH 170 - Applied College Algebra**

**Credit Hours: 3**

Develops algebraic concepts and skills concerning linear, quadratic, rational, and radical functions along with their equations and graphs. Algebraic concepts are applied to construct mathematical models. Not open to students with credit for a higher level math course.

Prerequisite: MATH 100 or ACT Math 18 or higher or SAT Math 471 or higher

## **MATH 180 - Precalculus**

**Credit Hours: 4**

Concentrates on preparing students with the concepts and skills that apply to the study of Calculus. Topics include polynomial, exponential, logarithmic, and trigonometric functions along with their equations and graphs. Concepts of analytic geometry are also developed. Not open to students with credit for a higher level math course.

Prerequisite: MATH 170 or ACT Math 21 or higher or SAT Math 546 or higher

## **MATH 190 - Calculus I**

**Credit Hours: 4**

Introduces the concepts of limit, continuity, derivative, integral, and applications. It assumes some knowledge of trigonometric functions and equations for lines and conic sections.

Prerequisite: MATH 180 or ACT Math 24 or higher or SAT Math 576 or higher

## **MATH 200 - Calculus II**

**Credit Hours: 4**

Continues the study of calculus and includes such topics as applications of integrals, methods of integration, logarithms, exponential, indeterminate forms, polar and parametric equations, and infinite series.

Prerequisite: MATH 190

## **MATH 230 - Linear Algebra and Vectors**

**Credit Hours: 3**

Includes the study of vectors, matrix algebra, vector spaces, linear transformations, and determinants.

Prerequisite: MATH 190

## **MATH 240 - Discrete Mathematics I**

**Credit Hours: 3**

This course introduces set theory, mathematical logic, basic proof techniques, number theory, counting and probability, and graph theory.

Prerequisite: MATH 180

## **MATH 250 - Discrete Mathematics II**

**Credit Hours: 3**

This course continues the study of topics introduced in MATH 240. This includes advanced proof techniques such as strong induction, the study of graphs and their applications, recurrence relations, advanced combinatorial techniques, or other topics as determined by the instructor.

Prerequisite: MATH 240

## **MATH 310 - Calculus III**

**Credit Hours: 3**

Includes the study of the basic concepts of calculus applied to functions of more than one variable such as 3-dimensional coordinate systems and graphs, vector products, partial and directional derivatives, multiple and path integrals. Related applications such as velocity, acceleration, curvature, mass, and work are also studied.

Prerequisite: MATH 200

## **MATH 320 - Differential Equations**

**Credit Hours: 3**

Includes the study of first and higher order differential equations, methods for obtaining solutions, and applications.

Prerequisite: MATH 200, MATH 230

### **MATH 330 - Algebraic Structures**

**Credit Hours: 4**

Includes the study of groups, rings, fields, vector spaces, and other related topics.

Prerequisite: MATH 230, MATH 250

### **MATH 340 - Mathematical Statistics**

**Credit Hours: 3**

Includes the basic theory and applications of probability and statistics.

Prerequisite: MATH 200 MATH 240

### **MATH 350 - Numerical Analysis**

**Credit Hours: 3**

Presents the concepts and methods of numerical solutions for mathematical problems and includes applications using the computer.

Prerequisite: MATH 200, MATH 230, CPSC 100

### **MATH 360 - Geometry**

**Credit Hours: 3**

Presents the study of several geometries, including synthetic and metric Euclidean, non-Euclidean, projective, and finite geometries.

Prerequisite: MATH 240

### **MATH 370 - History of Mathematics**

**Credit Hours: 2**

Surveys the history and development of mathematics from ancient times through to the present day. It shows the contributions made to the field by mathematicians from diverse ethnic, racial, and gender groups.

Prerequisite: MATH 190, MATH 230, MATH 240

### **MATH 410 - Analysis**

**Credit Hours: 4**

Presents a rigorous development of calculus and an introduction to real analysis.



Prerequisite: MATH 240, MATH 310

### **MATH 420 - Complex Analysis**

**Credit Hours: 3**

Is an introductory study of the theory of functions of complex variables.

Prerequisite: MATH 310, MATH 320

### **MATH 490 - Topics in Mathematics**

**Credit Hours: 3**

Studies, in greater depth, topics in the other listed courses.

Prerequisite: Permission of the instructor

### **MATH 495 - Mathematics Seminar**

**Credit Hours: 1**

Provides a setting for the study and mastery of selected expository papers. Students lecture on the subject of the chosen paper and take an oral examination.

Prerequisite: Permission of instructor

### **MBIO 211 - Topics in Molecular Biology**

**Credit Hours: 1**

Includes presentation and discussion of molecular biology topics of current interest and importance. This is a seminar-style course which provides the opportunity for students to gain an understanding of the field through general readings as well as the recent literature.

Repeatability: May be repeated once for credit.

### **MBIO 411 - Topics in Molecular Biology**

**Credit Hours: 1**

A seminar-style course which examines in depth, through readings, discussions and presentations, important topics in the field. Molecular Biology majors must take the course for at least one credit.

Prerequisite: MBIO 211, BIOL 375, CHEM 214, CHEM 315

Note: May be taken for additional credit.

### **MBIO 417 - Molecular Biology Seminar**

**Credit Hours: 2**

Involves library research in a molecular biological topic, related to the research to be conducted in MBIO 418. The course also features student oral presentations and a written paper related to the library and lab research.

Prerequisite: MBIO 211, BIOL 375, CHEM 214, CHEM 315

**MBIO 418 - Research in Molecular Biology/Internship****Credit Hours: 4**

Builds on MBIO 417. Students may satisfy this requirement by conducting lab research in molecular biological problems in the science division, or with an internship which has the prior approval of the Molecular Biology faculty.

Prerequisite: MBIO 417

**MEDIA 150 - Introduction to Convergent Media****Credit Hours: 3**

An introductory course which provides multimedia instruction to create content for convergent media audiences. This course teaches principal skills to prepare students to publish in audio, photo, print, video and web converged platforms. Conceptual, practical, and ethical frameworks for integrating traditional and new forms of media gathering, reporting, and storytelling are emphasized. This course provides hands-on training and critique to prepare students for Journalism, Media Production and Public Relations majors.

**MEDIA 195 - Topics in Media****Credit Hours: 1-3**

This course is an introductory course focused upon a variety of subjects in media production. Topics such as video editing and cinematography may be offered.

Repeatability: This class may be repeated for credit as content changes, with up to 6 credit hours counting toward graduation.

**MEDIA 210 - Media Literacy****Credit Hours: 3**

Examines the many ways in which media influence individuals and society. Students are introduced to the scholarly study of media effects and media theories. The media literacy perspective establishes the principle that the more one knows and understands how media affect people, including self, the better able the individual is to evaluate, control, and maximize appropriate media exposure and consumption. The course provides information about how audiences are influenced by and react to mediated messages.

**MEDIA 215 - Introduction to Cinematography****Credit Hours: 3**

An introductory course where students learn to the basic fundamentals of visual storytelling. This includes theoretical,

as well as hands-on production, in the following areas: camera equipment, lighting, composition, color, and post-production. Through class projects in and out of class, students will develop 21st Century skills to produce high-quality videos. Students will complete the course with the ability to film, light, and deliver multiple types of video projects.

## **MEDIA 225 - Introduction to Video Editing**

### **Credit Hours: 3**

This is an introductory course focused on the theory and technique of digital film and video editing. Through practical lessons, and class projects, students will develop editing proficiency with Avid Media Composer editing software. Students will complete the course with the ability to finish the editing of multiple types of film and video projects.

## **MEDIA 240 - Broadcast Writing and Reporting**

### **Credit Hours: 3**

Emphasizes the production planning, writing, and scripting processes as the necessary first steps in preparing material for radio and television productions. Students write and deliver broadcast news and features, commercials, promotional announcements, and longer format programs.

Prerequisite: MEDIA 150

## **MEDIA 300 - Visual Communication**

### **Credit Hours: 3**

Introduces principles and theories of the study of two-dimensional images, specifically those developed with informational or persuasive intent. Students acquire visual literacy skills that will allow them to evaluate and critique messages. They demonstrate understanding by using electronic graphic and web design software to design an electronic portfolio of visual communication messages.

## **MEDIA 308 - Single Camera Video Production and Editing**

### **Credit Hours: 3**

Introduces single-camera production and editing techniques and their creative applications in various program formats. Pre-production planning and design, field production and nonlinear editing projects are emphasized. Students develop reasonable standards of criticism for their own work and that of others.

Prerequisite: MEDIA 240 or instructor permission

## **MEDIA 312 - Electronic Media Structure and Content**

### **Credit Hours: 3**

Surveys programming, economic, and structural issues in contemporary electronic media. The impact of new communication technologies on the traditional radio/television enterprises is also emphasized.

## **MEDIA 350 - Study of Global Cinema**

**Credit Hours: 3**

This course provides an overview of world cinema with an emphasis on history and culture. The course examines landmark film classics as well as a selection of contemporary foreign-language films. The basic vocabulary and concepts of film studies are taught in order to give students tools for an in-depth analysis of the films.

**MEDIA 365 - Audio Production****Credit Hours: 3**

Introduces basic audio recording and editing techniques and their creative applications in electronic media production. Students develop reasonable standards of criticism for their own work and that of others.

Prerequisite: MEDIA 240

**MEDIA 399 - Internship****Credit Hours: 3**

Involves a supervised experience in the student's major. The program is closely supervised by faculty members and an on-site director.

Prerequisite: Junior standing, 2.5 GPA and instructor permission.

Note: Credit counts as 3 of the 16 internship hours which may be applied to graduation requirements. Graded S/U.

**MEDIA 415 - Advanced Media Production****Credit Hours: 3**

A project-oriented audio and video production class providing the opportunity for students to continue to develop skills learned in the introductory media production classes (see prerequisites below). The course emphasizes focused and methodical pre-production planning and scripting, production, and post-production refinement and evaluation as the necessary phases of the production process. Students work individually and in groups. Specific assignments and projects are determined by the instructor at the start of the semester, depending on the makeup of the class.

Prerequisite: MEDIA 150, MEDIA 308, MEDIA 365

**MEDIA 420 - Media Law****Credit Hours: 3**

Examines the legal structure and case law within which the media operate. The course surveys interpretations of the First Amendment, legal issues involving libel, privacy, newsgathering, electronic media regulation, obscenity, indecency, intellectual property, and advertising. While the course covers the history and development of media law, the emphasis is on contemporary legal issues in a digital media environment.

Prerequisite: MEDIA 210 or MEDIA 312 or instructor permission

**MEDIA 495 - Seminar**

**Credit Hours: 3**

Exposes students to an intensive study in a selected area of emphasis. The first four weeks are devoted to the development of a project prospectus. The remainder of the semester is given to independent study under the guidance of an appropriate instructor.

Prerequisite: COMM 360

**MUSC 100 - Performance Seminar**

**Credit Hours: 0**

Concentrates on the skill of performance. Also included in the course is the continuous development of the critical listening skills needed for a music major or minor. Music majors, and minors who have course work still remaining, must register for MUSC 100 or MUSC 300.

**MUSC 101 - Fundamentals of Music Theory**

**Credit Hours: 3**

A course designed to introduce the general college student to music reading and music theory, including structures of notation and basic elements: intervals, scales, meter, and rhythm. The course includes basic theory, ear training, and keyboard harmony and can be a preparatory course for the Materials of Music sequence.

**MUSC 110 - History of Popular Music**

**Credit Hours: 3**

Introduces students to a historical and cultural perspective on trends in popular music of the 20th and 21st centuries in the United States.

**MUSC 111 - Materials of Music I**

**Credit Hours: 4**

Introduces students to the fundamentals of music, structures of notation and basic elements: intervals, scales, and meter; rhythmic, melodic and harmonic progressions; and studies in part writing. In addition, this course introduces students to an overview of music literature in order to provide an understanding of the relationships among various styles of music.

Prerequisite: Departmental placement exam or instructor consent

**MUSC 112 - Materials of Music II**

**Credit Hours: 4**

A continuation of MUSC 111.

Prerequisite: MUSC 111 or instructor consent

**MUSC 115 - Aural Skills I**

**Credit Hours: 1**

Studies music based on the structure and aural recognition of intervals; meter; and rhythmic, melodic and harmonic progressions, through solfeggio; ear training, and written dictation. Students analyze structure and recognition of tertian harmony through keyboard application.

**MUSC 116 - Aural Skills II**

**Credit Hours: 1**

A continuation of MUSC 115.

Prerequisite: MUSC 115 or instructor consent

**MUSC 121 - Introduction to Music**

**Credit Hours: 3**

A survey course designed to introduce the general college student to aspects of music, music creating, and a broad spectrum of music literature and styles.

**MUSC 131 - Brass Instruments**

**Credit Hours: .5-1**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation. Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges.

Note: Can only be taken twice.

**MUSC 133 - Woodwind Instruments**

**Credit Hours: .5-1**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation. Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges.

Note: Can only be taken twice.

**MUSC 135 - String Instruments**

**Credit Hours: .5-1**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation.

Note: Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges. Can only be taken twice.

## **MUSC 137 - Percussion Instruments**

**Credit Hours: .5-1**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation.

Note: Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges. Can only be taken twice.

## **MUSC 140 - Diction for Singing**

**Credit Hours: 1**

Introduces vocal students to IPA (International Phonetic Alphabet), and its use in English, Italian, German and French lyric diction. Required for all first-year music education majors, music majors, music and musical theatre minors, with a vocal concentration.

## **MUSC 141 - Voice**

**Credit Hours: .5-1**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation.

Note: Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges. Can only be taken twice.

## **MUSC 143 - Keyboard**

**Credit Hours: 1**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation.

Note: Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges. Can only be taken twice.

## **MUSC 145 - Composition**

**Credit Hours: 1**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation.

Note: Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges. Can only be taken twice.

## **MUSC 149 - Jazz Improvisation**

### **Credit Hours: 1**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation.

Note: Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges. Can only be taken twice.

## **MUSC 150 - Piano Accompanying (major ensemble)**

### **Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 160 - Southeastern Ohio Symphony Orchestra (major ensemble)**

### **Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements. Can only be taken twice.

## **MUSC 161 - Wind Ensemble (major ensemble)**

### **Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements. Can only be taken twice.

## **MUSC 162 - Concert Choir (major ensemble)**



**Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

**MUSC 163 - Choral Society****Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

**MUSC 164 - Musical Theatre Workshop****Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

**MUSC 165 - Campus Choir****Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

**MUSC 166 - Chamber Singers****Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 167 - Muskingum Valley Symphonic Winds (major ensemble)**

### **Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 168 - Jazz Ensemble**

### **Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 169 - Spirit Band**

### **Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 170 - Chamber Ensembles**

### **Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 181 - Introduction to Music Education**

### **Credit Hours: 2**

Provides an overview of the theories, methodologies, and philosophies of music education from 1700 to the present.

## **MUSC 190 - Piano Class I**

**Credit Hours: 1**

A study of the basic keyboard skills necessary for careers in music.

Prerequisite: Instructor consent

**MUSC 191 - Piano Class II**

**Credit Hours: 1**

A continuation of MUSC 190.

**MUSC 211 - Materials of Music III**

**Credit Hours: 4**

A continuation of MUSC 112.

Prerequisite: MUSC 112 or instructor consent

**MUSC 212 - Materials of Music IV**

**Credit Hours: 4**

A continuation of MUSC 211 and includes form and analysis and compositional techniques.

Prerequisite: MUSC 211 or instructor consent

**MUSC 215 - Aural Skills III**

**Credit Hours: 1**

A continuation of MUSC 116.

Prerequisite: MUSC 116 or instructor consent

**MUSC 216 - Aural Skills IV**

**Credit Hours: 1**

A continuation of MUSC 215.

Prerequisite: MUSC 215 or instructor consent

**MUSC 281 - Woodwind Methods and Pedagogy**

**Credit Hours: 2**

Provides practical study of woodwind instruments with materials and methods of teaching.

## **MUSC 282 - String Methods and Pedagogy**

**Credit Hours: 2**

Provides practical study of string instruments with materials and methods of teaching.

## **MUSC 283 - Brass and Percussion Methods and Pedagogy**

**Credit Hours: 2**

Provides practical study of the brass and percussion instruments with materials and methods of teaching.

## **MUSC 284 - Voice Pedagogy and Practicum**

**Credit Hours: 2**

Introduces the fundamental concepts and implementation of vocal pedagogy practices through literature study, observation, singing, and applied pedagogy (guided teaching).

## **MUSC 290 - Piano Class III**

**Credit Hours: 1**

A continuation of MUSC 191.

## **MUSC 291 - Piano Class IV**

**Credit Hours: 1**

A continuation of MUSC 290.

## **MUSC 295 - Piano Proficiency**

**Credit Hours: 0**

A performance examination of a music major's skills and is a department requirement.

Note: A grade of Satisfactory is noted on the transcript upon successful completion.

## **MUSC 300 - Performance Seminar**

**Credit Hours: 0**

Concentrates on the skill of performance. Also included in the course is the continuous development of the critical listening skills needed for a music major or minor.

Note: Music majors, and minors who have course work still remaining, must register for MUSC 100 or 300.

## **MUSC 301 - Topics in Music**

**Credit Hours: 1-3**

Provides the advanced student an opportunity to study selected topics in music. Examples of emphases could be church music, arranging, marching band techniques, diction, jazz, or pedagogy.

Prerequisite: MUSC 212

Repeatability: The course may be repeated as subject matter changes.

**MUSC 302 - Topics in Music**

**Credit Hours: 1-3**

Provides the advanced student an opportunity to study selected topics in music. Examples of emphases could be church music, arranging, marching band techniques, diction, jazz, or pedagogy.

Prerequisite: MUSC 212

Repeatability: The course may be repeated as subject matter changes

**MUSC 303 - Topics in Music**

**Credit Hours: 1-3**

Provides the advanced student an opportunity to study selected topics in music. Examples of emphases could be church music, arranging, marching band techniques, diction, jazz, or pedagogy.

Prerequisite: MUSC 212

Repeatability: The course may be repeated as subject matter changes

**MUSC 310 - Excursions in World Music**

**Credit Hours: 3**

A survey of music genres from various cultures and ethnicities around the world. Emphasis is placed on the relationship between music and its cultural content.

**MUSC 315 - Instrumentation**

**Credit Hours: 2**

A study of scoring techniques for band, choir, and orchestra.

Prerequisite: MUSC 212 or instructor consent and successful completion of the Junior Qualifying Exam.

**MUSC 321 - Western Music History I**

**Credit Hours: 3**

A detailed study of music from antiquity through Mozart.

Prerequisite: MUSC 212 or instructor consent and successful completion of the Junior Qualifying Exam.

## **MUSC 322 - Music History II**

**Credit Hours: 3**

A detailed study of music from Beethoven through the present day.

Prerequisite: MUSC 212 or instructor consent and successful completion of the Junior Qualifying Exam.

## **MUSC 331 - Brass Instruments**

**Credit Hours: .5-1**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation.

Prerequisite: Take MUSC 131 twice

Note: Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges. Can only be taken twice.

## **MUSC 333 - Woodwind Instruments**

**Credit Hours: .5-1**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation.

Prerequisite: Take MUSC 133 twice

Note: Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges. Can only be taken twice.

## **MUSC 335 - String Instruments**

**Credit Hours: .5-1**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation.

Prerequisite: Take MUSC 135 twice

Note: Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges. Can only be taken twice.

## **MUSC 337 - Percussion Instruments**

**Credit Hours: .5-1**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation.

Prerequisite: Take MUSC 137 twice

Note: Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges. Can only be taken twice.

## **MUSC 341 - Voice**

**Credit Hours: .5-1**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation.

Prerequisite: Take MUSC 141 twice

Note: Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges. Can only be taken twice.

## **MUSC 343 - Keyboard**

**Credit Hours: 1**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation.

Prerequisite: Take MUSC 143 twice

Note: Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges. Can only be taken twice.

## **MUSC 344 - Commercial Recording**

**Credit Hours: 1**

A course designed to provide an introduction to the techniques of sound reinforcement and music recording through instruction and hands-on recording of department concerts and through the mixing of recorded tracks resulting in a CD.

## **MUSC 345 - Composition**

**Credit Hours: 1**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation.

Note: Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges. Can only be taken twice.

## **MUSC 347 - Conducting**

**Credit Hours: 1**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation.

Note: Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges. Can only be taken twice.

## **MUSC 349 - Jazz Improvisation**

### **Credit Hours: 1**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation.

Note: Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges. Can only be taken twice.

## **MUSC 350 - Piano Accompanying (major ensemble)**

### **Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 360 - Southeastern Ohio Symphony Orchestra (major ensemble)**

### **Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Prerequisite: Take MUSC 160 twice

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 361 - Wind Ensemble (major ensemble)**

### **Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Prerequisite: Take MUSC 161 twice

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.



## **MUSC 362 - Concert Choir (major ensemble)**

### **Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Prerequisite: Take MUSC 162 twice

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 363 - Choral Society**

### **Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 364 - Musical Theatre Workshop**

### **Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 365 - Campus Choir**

### **Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 366 - Chamber Singers**

### **Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles

(Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

### **MUSC 367 - Muskingum Valley Symphonic Winds (major ensemble)**

**Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

### **MUSC 368 - Jazz Ensemble**

**Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

### **MUSC 369 - Spirit Band**

**Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

### **MUSC 370 - Chamber Ensembles**

**Credit Hours: 1**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission.

Note: A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

### **MUSC 371 - Conducting I**

**Credit Hours: 2**

The introductory course to conducting a musical ensemble. Emphasis is placed on beat patterns, left hand techniques, and musical leadership.

Prerequisite: MUSC 212, or instructor consent and successful completion of the Junior Qualifying Exam.

**MUSC 372 - Conducting II**

**Credit Hours: 2**

The advanced course in conducting a music ensemble. Emphasis is on rehearsal, visual representation of the aural score, analysis of performance problems, and performance and pedagogical literature.

Prerequisite: MUSC 371

**MUSC 382 - Music Education: Teaching General Music**

**Credit Hours: 2**

Focuses on methods, materials, objectives, skills, and instructional strategies for the development of basic musical concepts in the general music classroom in grades Pre-K-8. Specialized approaches of Dalcroze, Kodály, and Orff are studied.

Prerequisite: MUSC 212 or instructor consent and successful completion of the Junior Qualifying Exam.

Co-requisite: EDUC 301

Note: field observation hours for Pre-K-8 are included.

**MUSC 383 - Music Education: Teaching Vocal Music**

**Credit Hours: 2**

Studies the methods, materials, objectives, and instructional strategies for the teaching of vocal and choral music in grades 4-12.

Prerequisite: MUSC 212 or instructor consent and successful completion of the Junior Qualifying Exam.

Co-requisite: EDUC 301

Note: Field observation hours for grades 4-12 are included.

**MUSC 384 - Music Education: Teaching Instrumental Music**

**Credit Hours: 2**

Studies the administration and teaching of instrumental music in the schools (4-12) and the teaching of general music in grades 9-12.

Prerequisite: MUSC 212 or instructor consent and successful completion of the Junior Qualifying Exam.

Co-requisite: EDUC 301

Note: Field observation hours for grades 9-12 are included.

**MUSC 401 - Senior Recital**

**Credit Hours: 0**

Together with MUSC 445, is the capstone of the music or music education major. All students presenting a senior recital must be enrolled in the appropriate corresponding applied music course during the semester of the recital.

Prerequisite: MUSC 445, instructor consent

**MUSC 445 - Senior Seminar**

**Credit Hours: 1**

Together with MUSC 401, is the capstone of the music or music education major. The Senior Seminar focuses on research, analysis, and writing skills pertaining to the musical arts and the field of music education, and culminates in oral presentations and/or a major analytical research paper.

Prerequisite: Successful completion of the Materials of Music sequence; completion of MUSC 321; completion of or enrollment in MUSC 322; instructor consent.

**MUSC 482 - Music Education: Professional Semester in Elementary Education**

**Credit Hours: 5**

Involves students as practice teachers in an elementary school music program under the supervision and guidance of a cooperating teacher and Muskingum faculty member.

Prerequisite: MUSC 382, MUSC 383, MUSC 384

**MUSC 483 - Music Education: Professional Semester in Secondary Education**

**Credit Hours: 5**

Involves students as practice teachers in a secondary school music program under the supervision and guidance of a cooperating teacher and Muskingum faculty member.

Prerequisite: MUSC 382, MUSC 383, MUSC 384

**MUXP 101 - Muskingum Experience I: First Semester Seminar**

**Credit Hours: 1**

This course provides students with a common academic experience during their first semester at Muskingum. The course offers an extended orientation to the academic environment within a context of common readings, assignments, and activities. The course also introduces students to academic resources on campus and encourages students to engage in self-reflective practices.

**MUXP 151 - Muskingum Experience II Topics**

**Credit Hours: 1**

This course is designed to deepen your connections to Muskingum University and provide you with continued support and engagement. You will learn communication, self-presentation, and interpersonal skills that are transferable to all

classes and to your career after graduation as well as self-management skills, including financial literacy. The course covers resume writing and interviewing skills and shows you how to participate in high-impact experiences such as internships. Other topics may include leadership, citizenship, and healthy living.

Prerequisite: MUXP 101

## **NRSC 201 - Topics in Neuroscience**

**Credit Hours: 1**

Is a seminar-style course team taught each semester by the Neuroscience faculty. It explores in detail a particular topic in the field through reading and discussion of recent published reports. Neuroscience majors must take the course three times.

## **NRSC 305 - Cognitive Neuroscience**

**Credit Hours: 3**

Is a junior-level introduction to human cognition from neuroscientific and evolutionary perspectives. Students begin by learning the historical and philosophical antecedents of the field. Students then develop an understanding and appreciation for cognition and research methodology in the field; topics include perception, attention, memory, language, brain organization and plasticity, and the problem of consciousness.

Prerequisite: BIOL 112 and PSYC 281

## **NRSC 308 - Neuroscience Practicum**

**Credit Hours: 1**

Is a "real world" introduction to current research topics in the discipline. Students conduct several laboratory projects in this course. They also attend the annual meeting of the Society for Neuroscience or a regional neuroscience conference and report on their experience.

Prerequisite: Junior standing and permission of instructor

## **NRSC 368 - Fundamental Neuroscience**

**Credit Hours: 4**

Emphasizes basic neurophysiology, neurochemistry, synaptic function, coordinated organismal functions, and common neurological disorders. Laboratory emphasizes neuroanatomy.

Prerequisite: BIOL 108, BIOL 112, BIOL 226

Cross Listed As: BIOL 368

## **NRSC 386 - Neuropharmacology**

**Credit Hours: 4**

Provides basic explanations concerning how drugs act in the brain. The primary focus will be at the cell/molecular level with a lesser focus on the effects at the organismal level.

Prerequisite: BIOL 108, BIOL 112, BIOL 226, CHEM 111, CHEM 112

## **NRSC 407 - Neuroscience Research I**

### **Credit Hours: 3**

Part of a three-semester sequence of courses in an independent study program designed to provide opportunities to practice inquiry and discovery while intensively investigating a fundamental problem in neuroscience. In the first semester, students search the current scientific literature related to their topic and prepare a review paper and a research proposal. During the senior year, the students conduct an original investigation and produce both a scientific paper and an oral presentation.

Note: They also present a poster at the Annual Science Poster Session.

## **NRSC 408 - Neuroscience Research II**

### **Credit Hours: 2**

Part of a three-semester sequence of courses in an independent study program designed to provide opportunities to practice inquiry and discovery while intensively investigating a fundamental problem in neuroscience. In the first semester, students search the current scientific literature related to their topic and prepare a review paper and a research proposal. During the senior year, the students conduct an original investigation and produce both a scientific paper and an oral presentation.

Prerequisite: NRSC 407

Note: Students present a poster at the Annual Science Poster Session.

## **NRSC 409 - Neuroscience Research III**

### **Credit Hours: 2**

Part of a three-semester sequence of courses in an independent study program designed to provide opportunities to practice inquiry and discovery while intensively investigating a fundamental problem in neuroscience. In the first semester, students search the current scientific literature related to their topic and prepare a review paper and a research proposal. During the senior year, the students conduct an original investigation and produce both a scientific paper and an oral presentation.

Prerequisite: NRSC 408

MAP Only: Students present a poster at the Annual Science Poster Session.

## **NURS 125 - Foundations in Professional Practice I**

### **Credit Hours: 1**

The course is an introduction to the theoretical concepts and foundational principles of nursing. The course will present the practice of nursing as defined and described in the program's philosophy statement and key concept definitions.

Prerequisite: Direct admit to nursing or admitted as a "pre-nursing" student

## **NURS 126 - Foundations in Professional Practice II**

**Credit Hours: 1**

The course is an introduction to the theoretical concepts and foundational principles of nursing as defined and described in the program's philosophy statement and key concept definitions. A professional nursing e-portfolio will be introduced that will continue throughout the nursing program and conclude in the senior capstone course NURS 487.

Prerequisite: Direct admit to nursing or admitted as a "pre-nursing" student

**NURS 226 - Health Assessment****Credit Hours: 3**

Is designed to systematically teach the knowledge and skills needed to perform a comprehensive health history and physical assessment on the adult client. Content related to the techniques of inspection, palpation, percussion and auscultation are taught. Utilization of assessment data that includes physiological, psychosocial, developmental and genetic factors, and skills within diverse cultures in multiple health care settings are emphasized. The analysis of assessment data enables students to enhance clinical reasoning, decision making and communication skills. Students have the opportunity to practice and demonstrate assessment skills learned in the laboratory setting.

Prerequisite: Must meet all nursing progression requirements

**NURS 227 - Fundamentals of Nursing Practice****Credit Hours: 4**

Introduces theories, principles and concepts relative to basic fundamental nursing practice. Students utilize concepts and content taught in the arts and sciences, including health assessment, to begin developing critical thinking skills and nursing care planning in accordance with the nursing process. Psychomotor and interpersonal communication skills are taught, along with principles of safety and infection control using evidence based practice concepts. Students learn and practice psychomotor skills in the nursing laboratory prior to performance in the clinical agency to which they are assigned.

Prerequisite: Must meet all nursing progression requirements

**NURS 230 - Pharmacology****Credit Hours: 3**

The focus of this course emphasizes pharmacodynamics and clinical uses of various classes of drugs in the healthcare setting. Drugs discussed include those used for hypertension, infection, cancer, pain and diseases of the cardiovascular, renal, respiratory, endocrine, gastrointestinal and central nervous systems. This is a theory only course.

Prerequisite: Must meet all nursing progression requirements

**NURS 251 - Introduction to Clinical Practice in Medical-Surgical Nursing****Credit Hours: 7**

Introduces the nursing process of caring for adults and their family with acute and chronic health alterations. The student uses the nursing process to care for the adult medical-surgical patient and their family in a holistic manner using information based on current evidence-based practice. A combination of classroom, laboratory and clinical teaching strategies are used to introduce nursing concepts and content related to physiological adaptation, psychosocial

integrity, pharmacological therapy, cultural competence, ethical practice and leadership. Professional communication using oral, written and information technology is expected.

Prerequisite: Must meet all nursing progression requirements  
Co-requisite: NURS 230

### **NURS 330 - Transitions in Professional Practice (RN-BSN)**

**Credit Hours: 3**

This course provides an introduction to the Bachelor of Science in Nursing philosophy at Muskingum University. Aspects of professional nursing practice will be addressed, including scope of practice, nursing process, cultural awareness, communication applications, writing standards, presentation development, collaboration, and the use of informatics to facilitate proficiency in Evidence Based Practice (EBP).

Prerequisite: Admission to the RN to BSN program track

### **NURS 335 - Health Assessment (RN-BSN)**

**Credit Hours: 3**

This course increases knowledge and skills in performing the client health history and physical assessment. Utilization of assessment skills and data collection across the lifespan, within diverse cultures, and in multiple health care settings will be emphasized. The analysis and synthesis of assessment data will enable students to enhance clinical reasoning, decision-making and communication.

Prerequisite: Admission to the RN to BSN program track

### **NURS 340 - Nursing Research**

**Credit Hours: 3**

Introduces the basic skills necessary to critique nursing research. Focuses on research methodology, interpreting research articles and evaluating the usefulness of findings for evidence-based nursing practice. This is a theory only course.

Prerequisite: Must meet all nursing progression requirements

### **NURS 351 - Clinical Practice in Medical-Surgical Nursing**

**Credit Hours: 7**

Students are expected to apply nursing knowledge and use critical thinking skills based on evidence-based nursing practice to care for adults and their family with acute and chronic health alterations. A combination of classroom, laboratory and clinical teaching strategies are used to continue building from prior program coursework on the concepts and content related to physiological adaptation, psychosocial integrity, pharmacological therapy, culture competence, ethical practice and leadership. Professional communication using oral, written and information technology is expected.

Prerequisite: Must meet all nursing progression requirements

### **NURS 360 - Mental Health and Family Nursing**



**Credit Hours: 4**

The purpose of this course is to apply the concepts of mental health to individuals and groups. The concepts to be emphasized include therapeutic communication, caring, cultural competence, evidence-based research practices and leadership/management affecting selected mental health alterations. This course includes theory and clinical practice.

Prerequisite: Must meet all nursing progression requirements

Prerequisite or Corequisite: Must meet all nursing progression requirements.

**NURS 375 - Nursing Care of Parents, Newborns and Children****Credit Hours: 8**

This course addresses the needs of child-bearing parents, newborns and children as they progress through the stages associated with health promotion, wellness and illness in normal age related changes, pregnancy, child development and rearing from conception through adolescence. The student uses critical thinking skills in the application of the nursing process with parents, families in childbirth, postpartum, and newborns through adolescence. Nursing implications relevant to physiological, developmental and genetic factors that influence the care of parents and children are covered. The nursing lab provides students the opportunity to learn and apply nursing skills relevant to the care of newborns through adolescence and of pregnant women. Clinical practice is provided in maternity and pediatric settings commensurate with the course content.

Prerequisite: Must meet all nursing progression requirements

**NURS 430 - Perspectives in Global Health and Nursing****Credit Hours: 3**

This course provides an overview of major health problems from a global perspective. It identifies health priorities of the 21st Century, with an emphasis on improved health for all. The course discusses how healthcare systems operate in different countries and provides examples of organizations that address global health issues. This is a theory only course.

Prerequisite: Must meet all nursing progression requirements and have upper division status in nursing.

**NURS 451 - Nursing Care of Adults with Complex Health Problems****Credit Hours: 7**

Students analyze and apply the concepts of physiological adaptation, psychosocial integrity, pharmacological therapy, cultural competence, ethical practice and leadership in the management of care for adults with complex multi-system health alterations. A combination of classroom laboratory and clinical teaching strategies are used to plan and implement evidence-based nursing care for the complex patient and their family. Professional communication using oral, written and information technology is expected.

Prerequisite: Must meet all nursing progression requirements

**NURS 460 - Community Health Nursing****Credit Hours: 4**

This course focuses on the concepts of public health, epidemiology and community health nursing with emphasis on

health promotion and disease prevention. An assessment of a rural community is completed. Cultural influences, chronic health problems, communicable diseases, disaster preparedness, health financing and environmental issues are examined in relation to community and family health practices. Health risks of individuals and families in the community are explored in terms of teaching/learning activities, caring ethics, nursing process and research through evidence-based practice. This course includes theory and clinical practice.

Prerequisite: Must meet all nursing progression requirements

## **NURS 470 - Contemporary Issues in Nursing and Health (RN-BSN)**

### **Credit Hours: 3**

This course examines the history and contemporary status of the American healthcare system as it relates to social, economic, cultural, political, and educational forces affecting nursing and health care. The role of the nurse is explored related to professional, legal, and ethical responsibilities. Nursing theorists are discussed and analyzed in terms of applicability for nursing practice. The student will also prepare for career opportunities and credentialing issues for life-long learning.

Prerequisite: Admission to the RN to BSN program track

## **NURS 480 - Nursing Leadership and Management (RN-BSN)**

### **Credit Hours: 4**

This course emphasizes development of leadership skills in nursing practice. Organizational, leadership, management and change theories are examined. Effective group leadership skills to assist in directing and/or providing safe, ethical care for groups of patients will be discussed. A significant component of the course will be the completion of an evidence based clinical project. Theory and clinical course.

Prerequisite: Successful completion of NURS 330, NURS 335, NURS 340, NURS 430, and NURS 470

## **NURS 486 - Nursing Leadership and Management**

### **Credit Hours: 3**

Development of leadership skills in nursing practice is emphasized. Organizational leadership, management and change theories are examined as they relate to the practice of nursing in dynamic and complex healthcare delivery systems. Analysis of ethical, political, legal, and social issues that influence healthcare management are explored. Students are expected to analyze practical leadership and management case scenarios and substantiate their analyses with evidence from the literature. An evidence-based project is completed that includes leadership concepts and theories covered in the course.

Prerequisite: Must meet all nursing progression requirements

## **NURS 487 - Nursing Senior Capstone: Preparation for Licensure and Practice**

### **Credit Hours: 7**

Focuses on the application of nursing content as it relates to preparation for licensure and entry into practice. Opportunities for socialization into the professional nursing role are provided. Students are expected to function with a high degree of independence, collaborate with other healthcare professionals, use effective group/leadership skills and direct and/or provide safe, ethical care for their patients. Students are required to successfully complete a clinical

experience, and apply the nursing process to patients in the healthcare setting. At the conclusion of the course students take a comprehensive predictor exam, and submit a nursing program objectives portfolio.

Prerequisite: Must meet all nursing progression requirements

## **NURS 490 - Special Topics**

**Credit Hours: 1-3**

This elective option is reserved for selected topics in Nursing. The course title, description, and syllabus are subject to approval of the instructor and the Chair of the Department.

Prerequisite: Upper division status in Nursing or permission of instructor

## **NUTR 131 - Introduction to Nutrition**

**Credit Hours: 3**

This course will provide a detailed accessible examination of human nutrition and metabolism to provide the foundation to understanding nutrition sciences and the human body.

## **NUTR 231 - Nutrition Across the Lifespan**

**Credit Hours: 3**

Presents the chemistry, digestion, absorption and metabolism of nutrients. Nutritional needs of the individual throughout the lifespan are examined. Application of nutritional needs to healthy individuals and those who have common, chronic diseases are presented.

## **NUTR 332 - Sport Nutrition and Supplementation**

**Credit Hours: 3**

Explores the science behind performance enhancement through better nutrition and dietary supplementation. New discoveries in the nutraceutical benefits of foods, vitamins, and minerals are highlighted.

Prerequisite: NUTR 131

## **PBRL 201 - Introduction to Public Relations**

**Credit Hours: 3**

Examines contemporary public relations practice, values, and principles; explores professional ethics, strategy, planning, and tactics of effective public relations practice; and surveys the goals and practices of major settings for public relations.

## **PBRL 315 - Case Studies and Campaigns**

**Credit Hours: 3**

Examines contemporary public relations case studies to test theories, illustrate challenges, and observe tactics and

strategies. Explores the creation and implementation of public relations campaigns through applied skills in research, analysis, and planning.

### **PBRL 399 - Internship**

**Credit Hours: 3**

Involves a supervised experience in the student's major. The program is closely supervised by faculty members and an on-site director.

Prerequisite: Junior standing, 2.5 GPA and instructor permission.

Cross Listed As: DMD 399, JOURN 399, MEDIA 399

Note: Credit counts as 3 of the 16 internship hours which may be applied to graduation requirements. Graded S/U.

### **PBRL 495 - Seminar**

**Credit Hours: 3**

Exposes students to an intensive study in a selected area of emphasis. The first four weeks are devoted to the development of a project prospectus. The remainder of the semester is given to independent study under the guidance of an appropriate instructor.

Prerequisite: COMM 360

### **PE 101 - Concepts of Wellness**

**Credit Hours: 1**

Develops an understanding of basic exercise physiology and physical training principles. Students learn to assess their own personal level of physical fitness and the benefits of proper physical activity. At the conclusion of the course, students are ready to continue a lifetime of healthy physical fitness activity. Appropriate for adolescent level students.

### **PE 102-140 - Physical Education Service Courses**

**Credit Hours: 1**

Enable students to fulfill individual sports, team sports, and activity interests by covering a wide variety of activities such as aerobic fitness, archery, badminton, cheerleading and dance, flag football, lifeguard training, water safety instructor, tennis, golf, racquetball, soccer, softball, and varsity athletics. A maximum of three activities may be counted toward graduation requirements. Varsity athletes may take their respective varsity sport in any year of participation.

Repeatability: No activity may be repeated for credit.

### **PE 151 - Practica**

**Credit Hours: 1**

Are taken by students interested in training or working as student assistants with various sports.

Note: A maximum of three practica may be taken for major or minor credit. Graded S/U.

## **PE 220 - Lifeguarding/Water Safety Instructor**

### **Credit Hours: 2**

Teaches the methods prescribed by the American Red Cross to save a victim of multi-age in need and ensure safety in an aquatic environment. Special attention is paid to the safety considerations and legal ramifications presented to the lifeguard.

Note: Counts as a service course.

## **PE 251 - Practica**

### **Credit Hours: 1**

Are taken by students interested in training or working as student assistants with various sports.

Note: A maximum of three practica may be taken for major or minor credit. Graded S/U.

## **PE 319 - Motor Learning and Adaptive Physical Education for Early Childhood**

### **Credit Hours: 3**

Is designed to provide the future educator with the necessary foundation of fundamental movement concepts and principles for children grades PreK to 5. Special emphasis is placed upon the use of developmentally appropriate practice to enhance the acquisition of more complex motor skills and patterns. In addition, educators are given specific strategies necessary in the educating of children who require skill adaptation and the use of prescriptive exercise and equipment. Educators attempt to establish a positive attitude and appreciation for regular health-related physical activity throughout the child's lifespan. Lastly, the educator experiences first hand the importance of movement activities and how they assist in the child's psychological, physical, intellectual, and social development.

Note: Required field experience: 15 hours.

## **PE 321 - Motor Learning and Adaptive Physical Education for Middle Childhood**

### **Credit Hours: 3**

Presents methods and materials for complete physical education instruction for children ages 9-14. Emphasis is on movement education, movement exploration, physical fitness, dancing, and specialized sports skills of basketball, football, floor hockey, soccer, softball, track and field, and volleyball. Practical teaching experience is included, and teaching units are developed.

Note: Required field experience: 15 hours.

## **PE 341 - Principles of Physical Education, Evaluation and Measurements**

### **Credit Hours: 3**

Deals with basic concepts, philosophical foundation, and subsequent applications in physical education for multi-age students. Included are specific testing, measurement, and evaluation procedures utilized in the classroom.

## **PE 351 - Practica**

**Credit Hours: 1**

Are taken by students interested in training or working as student assistants with various sports.

Note: A maximum of three practica may be taken for major or minor credit. Graded S/U.

**PE 416 - Teaching Physical Education Activities**

**Credit Hours: 4**

Is concerned with the methods and materials for teaching archery, badminton, bowling, racquetball, golf, dance, swimming, and tennis. Included is practice in teaching and conducting class activities for both middle and adolescent level students.

Note: Required field experience: 20 hours.

**PE 450 - Independent Elective**

**Credit Hours: 1-3**

Enables a student to work cooperatively with a staff member in a directed study in physical education, athletics, athletic training, recreation, or other areas with the approval of the department chair and the cooperating instructor.

**PE 451 - Practica**

**Credit Hours: 1**

Are taken by students interested in training or working as student assistants with various sports.

Note: A maximum of three practica may be taken for major or minor credit. Graded S/U.

**PE 470 - Administration, Organization, and Supervision of Health, Physical Education and Sports Programs**

**Credit Hours: 3**

Is designed to deal with the various methods of implementation for programs in health, physical education, intramurals, and sports. Special emphasis is also placed upon the supervision and evaluation procedures of such programs.

**PE 490 - Student Teaching Seminar**

**Credit Hours: 1**

Is taken during the professional semester to enhance the student teaching experience for the multi-age students. Student teachers discuss specific issues and concerns they are currently experiencing in the classroom.

**PHEN 100 - Physics for Video Games**

**Credit Hours: 3**

An introduction to the laws of physics needed to produce video games with compelling realism. Topics include kinematics, Newton's laws of motion, conservation of momentum, conservation of energy, rotational dynamics, video analysis, measurement, curve fitting, graphical interpretation, programming and simulation development. No programming experience is required.

Prerequisite: High school algebra

## **PHEN 101 - Conceptual Physics**

**Credit Hours: 4**

A conceptual-based introduction to classical physics. Topics include mechanics, properties of matter, thermodynamics, waves, sound, electricity, magnetism, and optics.

Prerequisite: High school algebra

## **PHEN 110 - Introduction to Physics and Engineering**

**Credit Hours: 2**

This course includes fundamentals of engineering problem-solving including skills from mathematics, science, and computing. Introduction to technical drawings and the engineering design process through team-based activities.

## **PHEN 111 - Career Development in Physics and Engineering**

**Credit Hours: 1**

This course focuses on physics and engineering careers, and what they "do". Presents various disciplines in both fields and associated occupations through class discussions, presentations by guest speakers, and other activities. Basics of ethics, globalization, leadership, graduate study, entrepreneurship, and presentation and communication skills are studied. Job search tools, such as resumes, interviews and networking will also be covered. A professional e-portfolio will be introduced.

## **PHEN 115 - Introductory Physics I**

**Credit Hours: 4**

This is an algebra-based presentation of mechanics, thermodynamics, and fluid mechanics.

Prerequisite: MATH 170 or higher

## **PHEN 116 - Introductory Physics II**

**Credit Hours: 4**

This course is an algebra-based presentation of oscillations, waves, electricity and magnetism and optics.

Prerequisite: PHEN 115

## **PHEN 121 - Classical Physics I**

**Credit Hours: 4**

This course is for science and engineering majors: a calculus-based presentation of kinematics, mechanics, and thermodynamics.

Prerequisite or Corequisite: MATH 190

**PHEN 122 - Classical Physics II**

**Credit Hours: 4**

This course is for science and engineering majors: a calculus-based presentation of sound, light, electricity, and magnetism.

Prerequisite: MATH 190 and PHEN 121

Prerequisite or Corequisite: MATH 200

**PHEN 150 - Introduction to Astronomy**

**Credit Hours: 4**

An introduction to the science of astronomy and the scientific method. Topics include the history of astronomy, light and matter, astronomical instruments, the solar system, stellar characterization, stellar evolution, and the interstellar medium. The course concludes with a brief survey of galaxies and cosmology. A weekly laboratory may be complemented by outdoor observing.

**PHEN 203 - Modern Physics**

**Credit Hours: 4**

A survey of 20th century physics: quantum mechanics with applications to nuclear, atomic, molecular, and solid state physics.

Prerequisite: PHEN 122 and MATH 200

**PHEN 210 - Statics**

**Credit Hours: 4**

This course studies the analysis of forces acting on particles, rigid bodies, trusses, frames, and machines in static equilibrium with applied forces and couples. Topics covered includes force vectors, equilibrium of a particle, equivalent systems of forces, equilibrium of a rigid body, structural analysis, internal forces, friction, analysis of the equilibrium of rigid bodies subjected to fictional force, centroids and moments of inertia.

Prerequisite: PHEN 121

Co-requisite: MATH 200

**PHEN 211 - Dynamics**

**Credit Hours: 3**



This course studies the kinematics and kinetics of a particle for rectilinear and curvilinear motion. Planar kinematics and planar kinetics of rigid bodies, including equations of motion and principles of energy and momentum. Topics covered includes velocity, acceleration, relative motion, work, energy, impulse, and momentum.

Prerequisite: PHEN 210, MATH 200

## **PHEN 235 - Electrical Circuit Analysis and Design**

**Credit Hours: 4**

Introduction to electrical circuit analysis and design of passive and active circuits under Direct Current (DC) and Alternating Current (AC). Linear circuit analysis techniques for various circuit topologies, including three-phase circuits, are introduced. Specific topics include the concepts of current, voltage, resistance, capacitance, inductance, power, energy, transient response of first- and second-order circuits using time-domain methods, and calculation of AC steady-state response using phasors and immittances. Laboratory work and computer-aided analysis techniques are designed to correlate with circuit analysis theory and design.

Prerequisite: PHEN 122, MATH 200

## **PHEN 300 - Material Science**

**Credit Hours: 4**

Examines the relationship between atomic structure, crystal structure, and microstructure of solids with their physical properties (mechanical, thermal, optical, electrical, and magnetic).

Prerequisite: PHEN 203

## **PHEN 310 - Optics**

**Credit Hours: 4**

Studies the ray, wave, and photon nature of light and selected optical instruments.

Prerequisite: PHEN 203

## **PHEN 320 - Thermodynamics**

**Credit Hours: 4**

Examines the properties of a pure substance, work and heat, the first law of thermodynamics, control volume analysis, entropy, the second law of thermodynamics, power and refrigeration systems and heat transfer.

Prerequisite: PHEN 121, MATH 200

## **PHEN 330 - Principles of Design**

**Credit Hours: 3**

Introduces General Engineering students to the design process: formulation of a problem, creative approaches to solving the problem, analysis, materials selection, and economics.

Prerequisite: Declared major or minor in Engineering Science or instructor permission

## **PHEN 340 - Theoretical Physics I**

**Credit Hours: 3**

Introduces the Lagrangian and Hamiltonian formulations of mechanics and the formalism of quantum mechanics.

Prerequisite: PHEN 203, PHEN 211, MATH 230

## **PHEN 350 - Special Topics in Physics and Engineering**

**Credit Hours: 1-3**

Prerequisite: Declared major or minor in Engineering Science or Physics or instructor permission

## **PHEN 360 - Strength of Materials**

**Credit Hours: 3**

An introduction to the fundamental concepts and mechanics of deformable solids. Topics include stresses and strains in solids, material behavior, shear forces and bending moments, deflection of beams, torsion of circular shafts, Mohr's circle for plane stress, pressure vessels, column buckling, statically indeterminate structures, centroids and moments of inertia.

Prerequisite: PHEN 210

## **PHEN 370 - Electromagnetics**

**Credit Hours: 3**

Studies electricity, magnetism, and their interrelationships. Applications to the design and operation of electromagnetic components and systems are emphasized.

Prerequisite: PHEN 122, MATH 310

## **PHEN 405 - Signals and Systems**

**Credit Hours: 3**

An introduction to basic concepts of signals, system modeling, and system classification. Convolution, response of linear time-invariant (LTI) systems, impulse response are presented. Emphasis is given to frequency-domain analysis of continuous-time and discrete-time signals and systems: Fourier series, Fourier, Laplace and z-transforms.

Prerequisite: PHEN 235, MATH 320

## **PHEN 410 - Measurements**

**Credit Hours: 3**

An introduction to sensors, interface electronics, data acquisition, calibration and response, probability, statistics, uncertainty analysis and regression.

Prerequisite: PHEN 235

## **PHEN 415 - Control Systems**

**Credit Hours: 3**

Introduces the analysis and design of control systems. Characteristics, performance, and stability of feedback control systems are studied. Mathematical and state-variable modeling and the root locus and frequency response methods are emphasized.

Prerequisite: PHEN 405

## **PHEN 420 - Fluid Mechanics**

**Credit Hours: 4**

An introduction to the fundamental principles and applications of hydrostatics and fluid flow.

Prerequisite: PHEN 210, MATH 320

## **PHEN 425 - Introduction to Electrical Power Systems**

**Credit Hours: 3**

An introduction to the analysis of magnetic circuits and polyphase balanced power systems. Topics include transformers and power transmission lines.

Prerequisite: PHEN 370

## **PHEN 430 - Theoretical Physics II**

**Credit Hours: 3**

Introduces statistical thermodynamics and elaborates on the formalism of electromagnetism.

Prerequisite: PHEN 320, PHEN 370

## **PHEN 435 - Engineering Economics, Ethics, and Society**

**Credit Hours: 3**

This course presents the broad knowledge for engineers about the topics of economics, ethics, and their effect on society. Topics include application of economic analysis and decision theory to evaluate alternatives of planning, development, construction, management of engineering projects, and discussion of ethical issues in the engineering practice.

Prerequisite: PHEN 330 or instructor permission

## **PHEN 490 - Introduction to General Engineering Senior Project**

### **Credit Hours: 1**

This course prepares General Engineering students for their senior project by stepping them through the process of writing and presenting a proposal for a design project. Students are required to (1) periodically present their progress on preparing their proposal, (2) submit their finished proposal, and (3) present it to students in the Introduction to Physics and Engineering course.

Prerequisite: PHEN 330 or instructor permission

## **PHEN 491 - Introduction to Physics Senior Project**

### **Credit Hours: 1**

This course prepares Physics students for their senior project by stepping them through the process of writing and presenting a proposal for a research project. Students are required to (1) periodically present their progress of preparing their proposal, (2) submit their finished proposal, (3) present it to students in the Introduction to Physics and Engineering course.

Prerequisite: PHEN 340

## **PHEN 492 - Introduction to Physics Education Senior Project**

### **Credit Hours: 1**

This course is an introduction to Physics Education Senior Project and prepares Physics Education students for their senior project by stepping them through the process of writing and presenting a proposal for a research project. Students are required to (1) periodically present their progress on preparing their proposal, (2) submit their finished proposal, and (3) present it to students in the Introduction to Physics and Engineering course.

Prerequisite: EDUC 394

## **PHEN 495 - General Engineering Senior Project**

### **Credit Hours: 3**

The capstone course for the General Engineering program. Working as individuals or in teams in consultation with departmental faculty, students execute the design they proposed in the Introduction to General Engineering Senior Project course. Students are required to (1) periodically present their progress on implementing their proposal, (2) present a poster that describes their design project for the Homer A. Anderson Family Science Colloquium series, and (3) submit a prototype and a final report for their design.

Prerequisite: PHEN 490

## **PHEN 496 - Physics Senior Project**

### **Credit Hours: 3**

The capstone course for the Physics program. Working as individuals or in teams in consultation with departmental faculty, students execute the research project they proposed in the Introduction to Physics Senior Project proposal.

Students are required to (1) periodically present their progress on implementing their proposal, (2) present a poster that describes their research project for the Homer A. Anderson Family Science Colloquium series, and (3) submit a final report for their research project.

Prerequisite: PHEN 491

## **PHEN 497 - Physics Education Senior Project**

**Credit Hours: 3**

The capstone course for the Physics Education program. Working as individuals or in teams in consultation with departmental faculty, students execute the research project they proposed in the Introduction to Physics Education Senior Project proposal. Students are required to (1) periodically present their progress on implementing their proposal, (2) present a poster that describes their research project for the Homer A. Anderson Family Science Colloquium series, and (3) submit a final report for their research project.

Prerequisite: PHEN 492

## **PHIL 101 - Introduction to Western Philosophy**

**Credit Hours: 3**

Introduces students to some of the key writers and concepts in philosophy, with a special emphasis on Western Philosophy (i.e. European and American). Topics could include human freedom, personal identity, the nature and existence of God, the problem of evil, the nature of knowledge, theories of truth, and approaches to values.

## **PHIL 202 - Logic and Critical Thinking**

**Credit Hours: 3**

Examines formal and informal techniques for evaluating arguments in order to improve critical thinking skills. Topics include informal fallacies of reasoning, uses and abuses of language, arguments in context, symbolic logic, and validity.

## **PHIL 203 - Introduction to Ethics**

**Credit Hours: 3**

Critically examines ethical theories of the criteria used to make justified and responsible ethical decisions. Considers difficult moral problems connected to topics such as killing, lying, fairness, sexual morality, environmental concerns, and professional ethics.

## **PHIL 305 - Biomedical Ethics**

**Credit Hours: 3**

Explores moral issues relating to medicine and biology. Examples of issues considered include euthanasia, genetic engineering, disabilities, and allocation of healthcare resources. Students explore arguments about these issues using the concepts and principles of ethical theory.

## **PHIL 325 - Western Philosophy: The Ancients**

**Credit Hours: 3**

Investigates Greek and Roman philosophy, with the possibility of including early Christian philosophy, in order to help students understand the origins of Western Philosophy. Includes figures such as Plato, Aristotle, Augustine, and Aquinas, as well as movements such as Stoicism and Epicureanism, with a focus on the role of rational inquiry in the quest for human flourishing.

**PHIL 327 - Western Philosophy: The Early Moderns**

**Credit Hours: 3**

Examines philosophies from 1600-1800 such as rationalism (Descartes, Spinoza), empiricism (Locke, Hume, Berkeley) and Kant's critical philosophy. Focuses on this period's response to scientific and political revolutions.

**PHIL 331 - Environmental Ethics**

**Credit Hours: 3**

Explores the nature and basis of our ethical obligations regarding the natural environment. Considers views of these obligations ranging from the human-centered (anthropocentrism), to the moral considerability of animals (animal liberation), to the notion that we have direct obligations to all living things or whole ecosystems (ecocentrism). Provides the opportunity to use these ethical perspectives to evaluate environmental policies, laws, or agendas.

**PHIL 342 - Religions and Philosophies of Asia**

**Credit Hours: 3**

Deals with the different forms of religious belief around the world-especially Hinduism, Buddhism, Confucianism, Taoism, Shintoism, and Islam.

Cross Listed As: RELG 342

**PHIL 343 - Social and Political Philosophy**

**Credit Hours: 3**

Considers theories of the nature and legitimacy of the state and its laws. Also deals with topics such as the rights and responsibilities of citizens, ethics in political decision-making, economic justice, punishment, race and gender oppression, political and cultural identity, and the value and meaning of democracy.

Cross Listed As: POLS 343, SOCI 335

**PHIL 350 - Later Modern Philosophy**

**Credit Hours: 3**

Examines topics about the nature of knowledge and reality from the period of the Nineteenth century through the early Twentieth century. Examples of topics include the nature and existence of God, the nature of mind, and the courses of knowledge.

**PHIL 355 - Comparative Philosophy**

**Credit Hours: 3**

This course examines two or more philosophical traditions in a comparative context. Fosters deeper understanding of philosophical traditions by articulating their assumptions from the perspectives of others. Examines themes such as the cultural conditions of knowledge and values, ethnocentrism, and marginalization.

**PHIL 360 - Topics in Metaphysics or Epistemology**

**Credit Hours: 3**

Explores a historically recent (i.e. 20th/21st century) topic in either Metaphysics or Epistemology. Possible Metaphysics topics include (but are not limited to) recent conceptions of a Higher Power, the Nature of Being, Social Constructivism, and the supposed Death of Metaphysics. Epistemology topics may include exploring Logistical Positivism, Philosophy of Mind, the possibility of Artificial Intelligence, and Philosophy of Language.

**PHIL 361 - Topics in Moral Philosophy**

**Credit Hours: 3**

Provides students the opportunity for advanced study of moral philosophy. Topics range from theoretical questions about the status of morality to practical questions about specific moral problems. Descriptions of the course topic for a given semester are available in the course schedule bulletin and on the Religion and Philosophy Department website.

**PHIL 362 - Ethics and Technology Issues**

**Credit Hours: 3**

This course examines the way in which rapid advances in technology have changed our ethical relationship with each other. Beginning with an overview of the central questions and theories of morality, this course challenges students to explore how these theories might be applied to social media, rapid communication, and advances in automation. Topics include: social media influencers as role models; online harassment and bullying; determining real from fake information; and the responsibilities companies have to protect the community as they develop new technologies.

**PHIL 403 - Directed Readings in Philosophy**

**Credit Hours: 1-3**

This course gives the student an opportunity to do intensive readings in areas of philosophy selected in consultation with the department.

**PHIL 495 - Senior Seminar Research in Philosophy**

**Credit Hours: 1**

Involves research necessary for the completion of the senior seminar. Such preliminary research includes extensive reading, compilation of a bibliography, composition of a thesis statement, and the creation of an initial outline. Students are asked to demonstrate their progress in regular meetings with the instructor and/or department

**PHIL 496 - Senior Seminar**

**Credit Hours: 3**

Involves research necessary for the completion of the senior seminar. Such preliminary research includes extensive reading, compilation of a bibliography, composition of a thesis statement, and the creation of an initial outline. Students are asked to demonstrate their progress in regular meetings with the instructor and/or department

Prerequisite: PHIL 495

**POLS 111 - American Political Systems****Credit Hours: 3**

Introduces students to the institutions, processes, and values that constitute the American political system. In dealing with such topics as First Amendment rights, Congress, the Presidency, parties and interest groups, bureaucracy, and public policy, some time is spent in examining select aspects of the social and political background to American politics.

**POLS 121 - Introduction to Public Administration and Policy****Credit Hours: 3**

Introduces students to the broad environment in which public policies are made in Europe and the United States. The relationship between the social ends desired and the administration employed and the difficulties of transferring the Western model of administration to other cultures are developed as themes. The intimate link between government administration and civilization is explored, and students are exposed to major elements of public administration, including administrative processes, organizational theory, human relations, and implementation.

**POLS 131 - Introduction to Comparative Politics****Credit Hours: 3**

Introduces students to foundational concepts and dynamics in the field of comparative politics. The course discusses patterns of political behavior, the essential elements of a political system, the institutions of different regimes, and the various ways in which states reconcile freedom, order, and equality. Numerous political systems are studied in comparative context. Both democracies and non-democracies are examined, with attention to the process of democratization in different systems.

**POLS 151 - Introduction to International Relations****Credit Hours: 3**

Introduces students to foundational concepts and dynamics in the field of international relations. Topics focus on the nature of interaction between political entities on the world stage, including states, IGOs, NGOs, and other entities. Topics covered include globalization and its consequences, the nature of East-West and North-South relations, the international economic system, the causes and consequences of war, and the international paths to peace.

**POLS 240 - Introduction to Research Methods****Credit Hours: 3**

This course covers the basics of a cross-section of research methods used in Criminal Justice, Political Science, and



other social sciences. The research methods covered include a basic quantitative method, a qualitative method, a field research method, and components of conducting a literature review. Students will learn problem formulation, hypothesis construction, and hypothesis testing. The course emphasizes the consumption of social science research and research methods skill development to be used in upper level Criminal Justice and Political Science courses.

Cross Listed As: CRMJ 240

## **POLS 310 - US National Security**

### **Credit Hours: 3**

Examines the nature of national and homeland security in the United States, including actors, institutions, and the impact of national security structures and behavior on the US and the world. Areas of concentration include the history of national security issues and concerns, changes in the post-9/11 world, homeland security issues, intergovernmental coordination and conflict, domestic and global implications of US policy, and both current and future challenges to US national security.

## **POLS 311 - Congress and the Presidency**

### **Credit Hours: 3**

Provides an understanding of the central policy-making institutions of the federal government: Congress and the Presidency. Attention is given to the constitutional power of Congress and the Presidency; the separation and delegation of powers; the evolution of powers and the inter-institutional power relationship; the policy making process; and historical and contemporary political polarization.

## **POLS 312 - Constitutional Law Governmental Powers**

### **Credit Hours: 3**

Focuses on the activity of the Supreme Court in interpreting the meaning of the Constitution through case law specific to the areas of governmental powers. After examining the powers and activities of the Court, specific areas of law are examined. These include powers and limitations of each branch, separation of powers, checks and balances, issues of federalism, taxing and spending powers, and economic powers.

## **POLS 313 - Criminal Procedure and Law**

### **Credit Hours: 3**

This course involves the convergence of law enforcement, courts, legislation, and the Constitution. Students study constitutional rights of individuals and limitations on police authority as interpreted by the courts. Additionally, students study crime definitions and elements of crime as written by legislatures and interpreted by courts. Substantive law of Ohio is emphasized.

Cross Listed As: CRMJ 344

## **POLS 314 - Political Communication**

### **Credit Hours: 3**

Focuses on how communication manifests itself through politics. Attention is given to the nature and impact of mass

media, which informs, shapes, and legitimizes political attitudes. Emphasis is given to theories of attitude formation and change, mass media as instruments of political communication and opinion leadership, how the media shapes public perceptions, the influence of political communication on public policy, and the media as a tool of political influence and control.

## **POLS 317 - Constitutional Law II: Civil Rights and Liberties**

### **Credit Hours: 3**

Focuses on the activity of the Supreme Court in interpreting the meaning of the Constitution through case law specific to the areas of civil rights and civil liberties. After examining the powers and activities of the Court, specific areas of law are examined. These include civil liberties (religion, speech, privacy, etc.), rights of the accused (search and seizure, due process, fair trial, etc.), and civil rights (equal protection, discrimination, etc.).

## **POLS 319 - Political Parties and Elections**

### **Credit Hours: 3**

Examines political parties found in democratic nations including multi-party systems with an emphasis on the case in the United States, and the meaning of parties for governing, political participation, and citizenship. Different election processes, election law, political finance, and the effects on outcomes are also studied.

## **POLS 321 - Public Administration**

### **Credit Hours: 3**

Studies the structures and processes for formulating and implementing public policies. Emphasis is given to the role of the national-level bureaucracy. State and local managerial and administrative concerns are addressed broadly and through specific illustrative examples.

## **POLS 322 - Public Policy**

### **Credit Hours: 3**

Establishes a framework for the policy cycle and applies it to selected policy concerns. The nature of public policy, making public policy, substantive policy issues, and policy analysis are explored.

## **POLS 323 - Administrative Law**

### **Credit Hours: 3**

Provides an understanding of the legal concepts that define what has been called "the bureaucratic state." Students examine the law governing the creation of, powers of, and limitations upon administrative agencies of all sorts.

## **POLS 324 - Urban Politics**

### **Credit Hours: 3**

Focuses on the political and policy choices and the constraints cities face. Students are provided a theoretical base to analyze cities in terms of the issues they face, the factors that affect them, and the structure that they operate in.

Important policy issues such as smart-growth strategies, economic development, and downtown revitalization are stressed.

## **POLS 325 - Public Sector Human Resource Management**

**Credit Hours: 3**

Examines the environment of public employment. Differences between the public and private sector, the historical growth of the personnel system in the public sector, and topics in administration, staffing, and productivity are explored. Public sector processes for recruitment, selection, development, motivation, evaluation, compensation, and discipline are given particular attention.

## **POLS 326 - Regional Planning**

**Credit Hours: 3**

Introduces students to planning at the city level and offers a unique opportunity to apply directly what has been learned in the classroom. Students are exposed to the major ideas behind regional planning, including land use planning, MPDUs and regional coalitions.

## **POLS 328 - Applied Policy: Occupational Safety and Health**

**Credit Hours: 3**

Provides students with the tools necessary to develop and design an effective occupational and safety health program in a wide variety of industries to mitigate risk and protect workers. The course is designed to give students training in policy development and program implementation which can both be used in a multitude of settings and serve as a transferable skill.

## **POLS 331 - Politics of Western Europe**

**Credit Hours: 3**

Studies such states as the United Kingdom, France, Germany, and others in depth, with comparisons being drawn among them. The emphasis is on the distribution of power and the organization for governing in parliamentary, presidential, and related democracies.

## **POLS 334 - Ethnic Conflict and Nationalism**

**Credit Hours: 3**

Examines the roles of ethnicity and national identity in constructing the modern world, ethnic conflicts, racism, and separatism through discussion of theoretical articles and real-world cases. The course includes the study of waves of national and current ethnic conflicts.

## **POLS 336 - Russian Politics and Society**

**Credit Hours: 3**

This course introduces students to political and social issues in the Russian Federation of democratization, nation-building, and building capitalism from the ground up. The course recaps Russian and Soviet history before discussing

some of the issues the country faces. These issues include territorial disintegrated, ethnic conflict, demographic change, gender roles, corruption, and other issues of contemporary significance.

Cross Listed As: SOCI 336

## **POLS 342 - Ethical Issues in Politics**

### **Credit Hours: 3**

Examines the ethical aspects of some of the difficult political issues facing the United States and the world community, including such topics as the influence of money on political systems, the role of ethics in addressing domestic social welfare issues, the moral aspects of humanitarian and economic development issues, and ethical concerns relating to issues of war and peace.

## **POLS 343 - Social and Political Philosophy**

### **Credit Hours: 3**

Considers theories of the nature and legitimacy of the state and its laws. It also deals with topics, such as the rights and responsibilities of citizens, ethics in political decision-making, economic justice, punishment, race and gender oppression, political and cultural identity, and the value and meaning of democracy.

Cross Listed As: PHIL 343, SOCI 335

## **POLS 352 - American Foreign Policy**

### **Credit Hours: 3**

Examines the actors, institutions, and the impact of foreign policy structures and behavior on the US and the world. Issue areas given significant attention include the history of AFP, issues of consensus and conflict, pre- and post-9/11 dynamics, inside and outside actors/influences, the impact of politics on policy, national and homeland security issues relating to foreign relations, and both current and future challenges of American foreign policy.

## **POLS 354 - Model United Nations**

### **Credit Hours: 3**

Introduces students to the United Nations as an institution, as well as to many of the problems and challenges faced by the international community that the UN addresses. As part of the course, students attend an off-campus Model United Nations simulation, where they take on the role of a particular country and interact with students from other universities representing different countries. A significant portion of the course content is specific to preparation for this off-campus Model UN simulation.

Note: Due to this additional practicum experience, there are additional costs associated with this course.

## **POLS 355 - Model United Nations Practicum**

### **Credit Hours: 1**

Allows students to gain college credit for attending the Model United Nations conference. Students must educate themselves about the country they are representing and prepare independently to attend the conference. Students in the

Model UN Practicum must periodically liaise with their peers taking the course for the first time, on a to-be-announced schedule.

Prerequisite: POLS 354

Note: Due to the nature of this experience, there are additional costs associated with this course.

## **POLS 356 - War, Peace, and Security**

**Credit Hours: 3**

Examines the nature of international security, including issues related to war and other forms of military and political conflict. Relevant institutions and actors are discussed, as are prominent challenges to peace and security in the international environment. The ethical implications of these challenges are examined, as are the prospects and possibilities for peace and security on the global stage.

## **POLS 358 - Russian Foreign Policy**

**Credit Hours: 3**

Exposes students to the intricacies of formulating, constructing, and executing Russian Foreign Policy, as well as a consideration of the means by which Moscow seeks to achieve its goals on the international stage. Students consider the different sources and challenges of Russian Foreign Policy coming from Russia's unique geographical, historical, and ideational position.

## **POLS 362 - Race, Crime, and Justice**

**Credit Hours: 3**

Explores the connection between the American criminal justice system and race. Attention is given to the nature and impact of the historical and contemporary criminal justice system, public policy, and public opinion. The course focuses on the use of data, theory, and research to understand individual behavior and American institutions.

## **POLS 365 - International Sport and Politics**

**Credit Hours: 3**

Introduces students to connections and influences between politics and international sport (sporting mega events), including state motives and aims in hosting such mega events. The course begins by considering sports in general before looking at international sport, such as the Olympics and the World Cup.

## **POLS 370 - Topics in Political Science**

**Credit Hours: 3**

Provides students with a semester-long study of a topic of interest under the direction of a departmental faculty member. Topical offerings provide an opportunity for intensive study in a field of interest to the student.

## **POLS 372 - Politics in Film**

**Credit Hours: 3**

Uses popular films to introduce important political issues and processes to a broad set of students. Movies are complemented with readings that center discussion on the political issues that emerge from the films.

### **POLS 377 - Hate Crimes**

**Credit Hours: 3**

This course introduces students to issues and facts regarding hate crimes in the United States and around the world, including reporting, policing, victims, laws, and socio-political causes of hate crime. The course also involves some consideration of international connections between hate groups and the role the internet plays in facilitating hate domestically and internationally.

### **POLS 380 - Topics: Off-Campus Study**

**Credit Hours: 3**

Provides students with an off-campus structured, faculty-led learning experience in the U.S. or abroad.

Prerequisite: Instructor permission required

### **POLS 387 - Internship in Political Science**

**Credit Hours: 1-3**

Involves a supervised work-study experience in a political structure or environment outside the University. Supervised jointly from within the respective political entity and the Political Science Department, the internship may take place in a private organization or business if it deals directly with the organization's involvement with political or governmental affairs.

### **POLS 481 - Student/Faculty Collaborative Research in Political Science**

**Credit Hours: 3**

Students work one-to-one with a faculty member on a professional project. The final project/paper will list both the faculty member and the student as co-authors. Students are expected to present their findings with the faculty member at a professional conference.

Prerequisite: Instructor permission required

### **POLS 490 - Senior Seminar**

**Credit Hours: 3**

Students in this team-taught course complete a mini-research project (individual or team-based depending on the type of research being conducted) for each of the four interrelated topics, and practice multiple ways of conducting research and answering questions. The unifying theme is the integration of knowledge. Students approach problems from different disciplinary perspectives, solve them in differentiated ways, and demonstrate how the knowledge they have gained in their major courses can be applied in multiple and diverse settings.

Prerequisite: CRMJ 240 or POLS 240

## **PSYC 101 - Introduction to Psychology**

**Credit Hours: 3**

Presents basic concepts in the scientific study of behavior including motivation, sensation and perception, learning, cognition, development, social, and personality.

## **PSYC 110 - Exploring Psychological Science**

**Credit Hours: 1**

Deals with selected topics offered in a seminar format.

Prerequisite or Corequisite: PSYC 101, freshman or sophomore standing, and permission of instructor

## **PSYC 151 - General Experimental Psychology**

**Credit Hours: 4**

Emphasizes fundamental concepts of research. Students conduct classic psychological experiments in perception, cognition, physiological, learning, and social psychology and write lab reports in APA (American Psychological Association) style.

Prerequisite: PSYC 101

Note: Includes a lab.

## **PSYC 205 - Child Development**

**Credit Hours: 3**

Presents a systematic study of physical, social, cognitive, and personality development from conception through the elementary school years. Emphasis is on learning different theoretical perspectives.

Prerequisite: PSYC 101

Note: Students are encouraged to complete the one credit course, PSYC 220 simultaneously.

## **PSYC 208 - Lifespan Development**

**Credit Hours: 3**

Is an overview of psychological theories and empirical research used in the study of human development to describe, understand, and explain development from conception to death. Emphasis is placed upon normal growth and milestones achieved in the physical, cognitive, social and emotional systems.

## **PSYC 220 - Preschool Practicum**

**Credit Hours: 1**

Provides supervised experience in the application of psychological principles. Students work in the department's Center for Child Development four hours per week and participate in a variety of in-service training programs.

Note: Graded S/U.

## **PSYC 222 - General Practicum**

### **Credit Hours: 1**

Provides supervised experience in the application of psychological principles. Students work in one of the department laboratories, an outside laboratory, a counseling center, a mental health clinic, or other human service agency.

Prerequisite: Permission of instructor

Note: The course requires four hours of practical experience per week (or 40 clock hours, depending on the placement) and participation in a variety of in-service training programs. Graded S/U.

## **PSYC 231 - Applied Statistics**

### **Credit Hours: 3**

Designed for the practical application of descriptive (measures of central tendency and variance) and inferential statistics (t-tests, ANOVAs, correlations, and regressions). The emphasis of the class is on the abilities to use statistical software (Excel) to organize data, conduct basic statistical analysis, interpret statistical findings and present statistical results.

## **PSYC 232 - Behavioral Statistics**

### **Credit Hours: 3**

Deals with experimental design, statistical analysis, and the mathematics of probability as they are related to the scientific analysis of behavior.

## **PSYC 281 - Physiological Psychology**

### **Credit Hours: 3**

Studies the basic principles of brain organization and function. Emphasis is placed on understanding the relationships between brain activity and behavior.

Prerequisite: PSYC 101

## **PSYC 290 - Theories of Personality**

### **Credit Hours: 3**

Examines contemporary models used to describe, explain and predict people's behavior, thoughts, and emotions.

Prerequisite: PSYC 101

## **PSYC 304 - Learning and Memory**

### **Credit Hours: 3**



Introduces the student to classical and modern concepts of learning and memory across all levels at which learning and memory is studied, in both animals and humans. Topics include the role of the nervous system, behavioral tests of learning and memory, and clinical disorders that affect learning and memory.

Prerequisite: PSYC 101

## **PSYC 305 - Cognitive Psychology**

**Credit Hours: 4**

Investigates mental processes related to the areas of perception, organization, retention, and subsequent use of stimulus information. Specifically, readings address the issues of perception, memory, attention, imagery, thinking, and problem solving.

Prerequisite: PSYC 101, PSYC 151, PSYC 232

Note: Includes a lab with experiments on computers.

## **PSYC 308 - Adolescence and Youth**

**Credit Hours: 3**

Examines the biological, social, personality, and cognitive changes that occur during adolescence and young adulthood. Emphasis is placed on research that is concerned with current challenges adolescents and young adults face.

Prerequisite: PSYC 101

## **PSYC 309 - Adulthood and Aging**

**Credit Hours: 3**

Examines the biological, social, personality, and cognitive changes that occur during adulthood and later years of the human life span. The continuation of development throughout the life span from middle adulthood until death is emphasized. The impact of earlier stages and choices in the life span are discussed as well.

Prerequisite: PSYC 101

## **PSYC 321 - Social Psychology**

**Credit Hours: 3**

Examines psychological principles and concepts involved in causal attribution, social cognition, attitude formation and change, social influence, and interpersonal relationships.

Prerequisite: PSYC 101 and one additional psychology course

Cross Listed As: SOCI 321

## **PSYC 351 - Advanced Experimental Psychology**

**Credit Hours: 4**

Gives the student experience in applying the scientific method to design and methodological issues in psychology.

Emphasis is placed on reading and critiquing research articles and conducting an independent research project.

Prerequisite: PSYC 151, PSYC 232, junior standing

Note: Includes a lab

## **PSYC 359 - Psychological Testing**

**Credit Hours: 4**

Provides the knowledge and skills necessary to create a psychological test and evaluate its effectiveness. Test construction, reliability, and validity are explored. Popular measures of personality, intelligence, and attitudes are demonstrated and examined.

Prerequisite: PSYC 101, PSYC 232

Note: Includes a lab.

## **PSYC 361 - Sensation and Perception**

**Credit Hours: 4**

Surveys the relationship between the various sensory modalities and behavior. The emphasis is on the interaction between such variables as basic sensory neurophysiology, environmental factors, personal experiences, and the ultimate process of perception.

Prerequisite: PSYC 101, PSYC 151

Note: Includes a lab.

## **PSYC 363 - Abnormal Psychology**

**Credit Hours: 3**

Presents the behavioral, cognitive, and emotional disorders confronted by mental health professionals. Students learn to apply current methods of assessing maladaptive behavior and to use psychological theories to explain psychological problems.

Prerequisite: PSYC 101

## **PSYC 371 - Psychopharmacology**

**Credit Hours: 4**

Begins with an overview of the nervous system and neurotransmitters. The course then focuses on the various classes of legal and illegal drugs by studying their effects on the nervous system and the behavior of animals and humans.

Prerequisite: PSYC 101, PSYC 151

Note: Includes a lab.

## **PSYC 390 - Counseling Theory and Process**

**Credit Hours: 3**

Is designed to broaden the student's knowledge and understanding of counseling through lectures, readings, and an experiential lab component. The student learns the basic theoretical perspectives of counseling, the fundamental process of counseling, and the relationship between theory and process. The lab component engages the student in rudimentary skill building in the area of counseling. The theories and procedures presented in the course can be adapted to and used in a wide variety of settings, including social work, education, and traditional psychological service settings.

Prerequisite: PSYC 101

## **PSYC 397 - Mental Health Internship**

### **Credit Hours: 2**

Requires 80 hours of practical experience and a written report, and is typically completed during the junior year. The internship experience is directed by a departmental advisor and an on-site supervisor with placement in a local human services agency or hospital.

Prerequisite: Permission of instructor

## **PSYC 398 - Research Internship**

### **Credit Hours: 2**

Provides opportunity to engage in independent research under the direction of a department faculty member. Students are required to make a final professional report of their findings.

Prerequisite: Permission of instructor

## **PSYC 399 - Developmental/Educational Internship**

### **Credit Hours: 2**

Requires 80 hours of practical experience and a written report, and is typically completed during the junior year. The internship experience is directed by a departmental advisor and an on-site supervisor. Placements include human services agencies and schools, or the department's Center for Child Development.

Prerequisite: Permission of instructor

## **PSYC 406 - Psychology of Law**

### **Credit Hours: 3**

Examines the relationship between the study of psychology and the legal system including the role of the psychologist as an expert witness, the psychological research on eyewitness testimony, scientific jury selection, and jury decision making.

Prerequisite: PSYC 101

## **PSYC 409 - Topics in Psychology**

**Credit Hours: 3**

Deals with selected topical courses offered in a seminar format.

**PSYC 419 - Readings in Psychology**

**Credit Hours: 1-3**

1-3 credit hours depending on the semester offering. Offers the student an opportunity to read extensively and discuss with department faculty topics not offered as part of the existing Psychology curriculum.

Prerequisite: Junior or senior standing and permission of the instructor; prerequisites may vary for different classes.

**PSYC 430 - Psychology of Injury**

**Credit Hours: 3**

Is designed to explore theories associated with the psychological ramifications, reactions, and adjustments required following a sport injury. Students will explore the various assessments and intervention opportunities available for coaches, athletic trainers, and sport psychology professionals.

Prerequisite: PSYC 101

**PSYC 493 - Comprehensive Review**

**Credit Hours: 2**

Is a weekly review of current research and student projects. Students write and present research proposals that serve as the basis for their senior studies project. Required of all senior Psychology majors, the course is completed when the student submits an acceptable literature review with a research proposal and passes a standardized, comprehensive examination in psychology.

Prerequisite: PSYC 351; senior standing in psychology

**PSYC 495 - Senior Studies**

**Credit Hours: 2**

Continues a weekly review of current research and student projects in addition to an independent study program that provides opportunities to practice inquiry and discovery while intensively researching some fundamental issue or problem in behavior. The individualized studies culminate in an empirical investigation, a written report, a poster, and an oral presentation to the department. The course is an extension of the Comprehensive Review projects which are continually presented during weekly review sessions.

Prerequisite: Senior standing in Psychology and completion of the research proposal for PSYC 493

**RELG 150 - Biblical Theology**

**Credit Hours: 3**

Surveys major biblical writings to discern the patterns they present about God, God's acts and God's purposes. Special attention is given to ways of reading the Bible that give priority to its literary and cultural contexts.

### **RELG 153 - World Religions**

**Credit Hours: 3**

Studies the principal doctrines, historical development, and contemporary practice of the major traditions.

### **RELG 251 - The World of Islam**

**Credit Hours: 3**

Studies the central doctrines, historical development, and current practice of Islam.

### **RELG 252 - The Judeo-Christian Tradition**

**Credit Hours: 3**

Surveys in historical context the western religions of Judaism and Christianity. Special attention is given to modern manifestations of these two great religious traditions.

### **RELG 253 - Ethics, Reason, and the Bible**

**Credit Hours: 3**

Explores the ethical systems found in the Bible.

### **RELG 260 - Introduction to Christian Theology**

**Credit Hours: 3**

Studies the central doctrines of Christianity as they have developed through the history of the church. Key points of discussion and major thinkers are covered, and students are led to identify and articulate their stance with regard to each doctrine. The contemporary theological scene is introduced as well.

### **RELG 261 - Women and the Bible**

**Credit Hours: 3**

Explores the often ambivalent relationship between women and the Bible. It examines what the Bible says about women, how women are portrayed in biblical texts, and how women readers have broadened our understanding of the Bible.

### **RELG 290 - Topics in Religious Understanding**

**Credit Hours: 3**

Examines a particular topic relevant to religious understanding, chosen by the instructor, that will enable students to probe the important ways in which religion impacts their lives and the lives of others.

## **RELG 301 - Old Testament Literature**

**Credit Hours: 3**

Studies the library of books bequeathed to us in words from ancient Israel. Through literary and historical criticism the message of the Law, the Prophets, and the Writings is discovered in the world of biblical literature.

## **RELG 302 - History and the Bible**

**Credit Hours: 3**

Studies the physical, cultural, and literary remains that help us understand and interpret Old and New Testament literature.

## **RELG 303 - New Testament Literature**

**Credit Hours: 3**

Studies the library of books bequeathed to us in words from the early Christian church. Through literary and historical criticism the message of the Gospels, the Acts of the Apostles, the Letters, and the Revelation is discovered in the world of biblical literature.

## **RELG 304 - Jesus in the New Testament**

**Credit Hours: 3**

Studies the person and work of Jesus as presented in the entire New Testament.

## **RELG 342 - Religions and Philosophies of Asia**

**Credit Hours: 3**

Deals with the different forms of religious belief around the world-especially Hinduism, Buddhism, Confucianism, Taoism, Shintoism, and Islam.

Cross Listed As: PHIL 342

## **RELG 352 - Religion and Film**

**Credit Hours: 3**

Examines how religious perspective influences the way film is made and understood. This course engages in the cross-cultural examination of religions and cinema.

Note: Offered in alternate years.

## **RELG 353 - Religion and Gender**

**Credit Hours: 3**

Explores cross-cultural religious communities by focusing on the interplay between religion and gender. Special consideration is given to the role of myths and symbols in determining power and gender relations.

### **RELG 356 - Death and Dying in the World Religions**

**Credit Hours: 3**

Studies the ways various religions deal with death and dying. Attention is paid to beliefs and practices of contemporary religious practitioners.

### **RELG 360 - Topics in Religion**

**Credit Hours: 1-3**

Allows students to explore special areas of religious study in more depth than regular course offerings can provide.

### **RELG 393 - Global Issues and Values**

**Credit Hours: 3**

Surveys selected natural issues (such as energy, population, and food supply), political issues (such as human rights, refugees, peace) and particular problems (such as those concerning the Palestinians, South Africa, multi-national corporations)-asking what values are operative and what values are required for responsible citizenship in the global village.

### **RELG 395 - World Mythology**

**Credit Hours: 3**

Focuses on myths and mythic categories important to religions around the world. This course is a cross-cultural examination of contemporary and classical myths from diverse cultures.

### **RELG 398 - Internship in Religion**

**Credit Hours: 1-2**

Provides a supervised experience in which a student works in a multifaith context, a religious organization or non-profit agency, or a chaplaincy context (correctional institute, military, hospital or higher education). The aim is to allow students to use religious knowledge in paid vocational contexts. The course number sequence allows for internships covering up to two semesters, consecutive or non-consecutive. Must be approved and supervised by instructor with relevant content background to the internship. Students must have taken appropriate courses relevant to the internship.

### **RELG 399 - Continuing Internship in Religion**

**Credit Hours: 1-2**

Provides a supervised experience in which a student works in a multifaith context, a religious organization or non-profit agency, or a chaplaincy context (correctional institute, military, hospital or higher education). The aim is to allow students to use religious knowledge in paid vocational contexts. The course number sequence allows for internships covering up to two semesters, consecutive or non-consecutive. Must be approved and supervised by instructor with relevant content background to the internship. Students must have taken appropriate courses relevant to the internship.

## **RELG 401 - Directed Readings in Religion**

**Credit Hours: 1-3**

Provides the opportunity for intensive reading in areas of religion selected in consultation with the department.

## **RELG 495 - Senior Seminar Research in Religion**

**Credit Hours: 1**

Involves research necessary for the completion of the senior seminar. Such preliminary research includes extensive reading, compilation of a bibliography, composition of a thesis statement, and the creation of an initial outline. Students are asked to demonstrate their progress in regular meetings with the instructor and/or department.

## **RELG 496 - Senior Seminar**

**Credit Hours: 3**

Involves writing an extensive research paper on a focused topic. Students are asked to demonstrate their progress in regular meetings with the instructor and/or department. This course culminates in an oral defense of the project.

Prerequisite: RELG 495

## **SOCI 101 - The Sociological Perspective**

**Credit Hours: 3**

Provides an introduction to the traditions, concepts, and methods of social inquiry. Students examine such topics as culture, social interaction, deviance, inequality, and social change.

## **SOCI 120 - Perspectives in Multicultural Leadership**

**Credit Hours: 1**

Provides an opportunity for students to examine leaders in the community and identify their own strengths to assist others. Through service-oriented action, students come to a greater understanding of being socially responsible in a multicultural setting.

Prerequisite: Completion of LEAP Workshop or permission of instructor

## **SOCI 216 - Social Problems in Contemporary America**

**Credit Hours: 3**

Examines the origins and consequences of some of the major social problems and dilemmas facing Americans today. Behavior related to problems such as race, class and gender, chemical dependency, sexual variation, crime, and the environmental crisis are studied from the sociological perspective.

## **SOCI 270 - American Corrections**



**Credit Hours: 3**

Uses a sociological perspective to examine the history, institutions, and practice of American corrections; specifically, issues of incarceration, probation, prisoner release, and criminal justice are covered.

Prerequisite: SOCI 101

Cross Listed As: CRMJ 270

**SOCI 301 - American Society: Class and Culture**

**Credit Hours: 3**

Surveys some of the major theories and scholarly studies on social stratification, national power structure, and corporate culture.

Prerequisite: SOCI 101 or SOCI 216

**SOCI 320 - Racial and Cultural Minorities**

**Credit Hours: 3**

Examines the way in which certain groups in society are defined as minorities and subjected to discrimination. The social-psychological, historical, cultural, and sociological sources of prejudice and discrimination are covered as well as the dynamics of change in relations between dominant and minority groups.

Prerequisite: SOCI 101

**SOCI 321 - Social Psychology**

**Credit Hours: 3**

Examines psychological principles and concepts involved in causal attribution, social cognition, attitude formation and change, social influence, and interpersonal relationships.

Prerequisite: PSYC 101 and one additional Psychology course

Cross Listed As: PSYC 321

**SOCI 330 - Human Sexuality**

**Credit Hours: 3**

Explores the social influences that impact concepts of sex, sexuality, reproduction and gender. Emphasis is placed on historical, political, global and technological issues. The course also includes fundamental instruction in reproductive anatomy and physiology.

Prerequisite: SOCI 101

**SOCI 335 - Social and Political Philosophy**

**Credit Hours: 3**

Considers theories of the nature and legitimacy of the state and its laws, the rights and responsibilities of citizens and groups, ethics in political decision-making, economic justice, punishment, race and gender oppression, the nature and value of political and cultural identity, and the value and meaning of democracy.

Cross Listed As: PHIL 343, POLS 343

### **SOCI 336 - Russian Politics and Society**

**Credit Hours: 3**

This course introduces students to political and social issues in the Russian Federation of democratization, nation-building, and building capitalism from the ground up. The course recaps Russian and Soviet history before discussing some of the issues the country faces. These issues include territorial disintegrated, ethnic conflict, demographic change, gender roles, corruption, and other issues of contemporary significance.

Cross Listed As: POLS 336

### **SOCI 342 - Gender, Film, and Society**

**Credit Hours: 3**

Applies a sociological lens to gendered aspects of film and their societal correlates.

Prerequisite: SOCI 101

### **SOCI 345 - Sociology of the Family**

**Credit Hours: 3**

Examines the various forms and functions of the family in the United States as well as other cultures. The developmental cycle of the family is followed through mate-selection, marriage, parenthood, and old age. Family change is also analyzed by covering such topics as industrialization and sex roles.

Prerequisite: SOCI 101

### **SOCI 350 - Social Change in an International Perspective**

**Credit Hours: 3**

Focuses on the international aspects of social change such as the gap between the rich and poor countries, social movements in Third World countries, and the theoretical perspectives that illuminate and explain such change. Case studies are drawn from current events.

Prerequisite: SOCI 101

### **SOCI 352 - Selected Topics in Sociology**

**Credit Hours: 3**

Presents an opportunity to read and discuss in depth topics not covered or only partially covered in regular courses.

Prerequisite: SOCI 101

### **SOCI 360 - Social Research Methods**

**Credit Hours: 3**

Introduces the student to the research process through the analysis of research designs and the various methods of collecting data and of drawing inferences from that data. Emphasis is placed on practical experience in developing research skills.

Prerequisite: SOCI 101

### **SOCI 369 - Peacemaking**

**Credit Hours: 3**

Takes a multidisciplinary approach towards peacemaking. This course moves back and forth between personal applications in one's daily life on the one hand and more academic applications of the social sciences (sociology, anthropology, history, psychology and criminal justice) and humanities on the other. Emphasis on writing and class discussion.

### **SOCI 370 - Environmental Sociology**

**Credit Hours: 3**

Constructs a framework for the study of how cultures and societies influence and in turn are shaped by the natural environment.

Prerequisite: SOCI 101

### **SOCI 422 - Sociological Theory**

**Credit Hours: 3**

Offers a descriptive and analytical survey of intellectual traditions and trends in the discipline of sociology from its origin to the present.

Prerequisite: SOCI 101

### **SOCI 490 - Round Table**

**Credit Hours: 1**

Encourages free and open conversation between students and faculty on sociological issues and applications.

Prerequisite: 15 hours in sociology/anthropology

Note: Graded S/U.

### **SOCI 495 - Senior Studies**

**Credit Hours: 2**

Provides an opportunity for the student to engage in the groundwork for guided independent study on an approved topic.

Prerequisite: SOCI 101

**SOCI 496 - Senior Studies**

**Credit Hours: 2**

Enables the student to complete a guided independent study on an approved topic.

Prerequisite: SOCI 495

**SPAN 111 - Beginning Spanish I**

**Credit Hours: 3**

Develop communicative skills while exploring the Spanish-speaking world. Students will learn how to have a basic conversational exchange, write emails in Spanish, and better understand immigrant communities in the U.S. Language instruction and cultural readings are designed to prepare students to work and communicate with people from different cultures.

Note: This course is intended for students with no prior knowledge of Spanish or those who have had two years or less of high school Spanish.

**SPAN 112 - Beginning Spanish II**

**Credit Hours: 4**

Enhance and further develop your communicative proficiency in Spanish as well as intercultural competency in the Hispanic world. In addition to the regular class meeting, students will meet once a week with a language assistant from Latin American or Spain to develop conversational skills.

Prerequisite: SPAN 111 or 2-3 years of high school Spanish

**SPAN 123 - Hispanic Literature and Film**

**Credit Hours: 3**

Prerequisite: This course, which is taught in English, will introduce students to Hispanic society through literature and film. Class discussions, readings, and film will include detective tales, humor, magical realism, social issues, and gender expression. Films in Spanish will include English subtitles. Students will have the options to complete readings in English or Spanish.

**SPAN 211 - Intermediate Spanish I**

**Credit Hours: 4**

Continues to develop your communicative proficiency in Spanish while exploring the cultural, social, and linguistic

diversity of the Hispanic world. Students explore the diversity of practices, products, and perspectives found within contemporary Spanish-speaking societies. Topics may include gender, multiculturalism, ethnicity, family, religion, literature, art, music, gastronomy, education, economics, and politics.

Prerequisite: SPAN 112 or 4 years of high school Spanish

Note: Students meet once a week with a language assistant from Latin America or Spain.

## **SPAN 212 - Intermediate Spanish II**

**Credit Hours: 4**

This course continues to develop your communicative proficiency in Spanish while exploring the cultural, social, and linguistic diversity of the Hispanic world. Students study the diversity of practices, products, perspectives found within contemporary Spanish-speaking societies. Topics may include gender multiculturalism, ethnicity, family, religion, literature, art, music, gastronomy, education, economics, and politics.

Prerequisite: SPAN 211 (or equivalent transfer credit) or a score of 4 on the AP Spanish Language and Culture exam.

Note: Students meet once a week with a language assistant from Latin American or Spain.

## **SPAN 240 - Business Spanish**

**Credit Hours: 3**

Introduces the language and culture of business in a Hispanic context. Topics include marketing, banking, accounting, trade, business communication, and the role of government.

Prerequisite: SPAN 212, its equivalent, or permission of the instructor.

## **SPAN 251 - Spanish Table**

**Credit Hours: 1**

This course is a weekly meeting designed to increase fluency and expand vocabulary through small group discussions and cultural activities (e.g. cooking a typical meal, playing a board game in Spanish, etc).

Prerequisite: SPAN 111, equivalent transfer credit or 1-3 years of high school Spanish.

Note: The course may be taken up to three times for credit but applied to the major or minor only twice.

## **SPAN 291 - Advanced Spanish Table**

**Credit Hours: 1**

A weekly discussion designed to expand vocabulary and increase the speaking proficiency of students at or above the advanced-intermediate level.

Prerequisite: SPAN 212, its equivalent or permission of instructor.

Note: The course is typically led by a Language Assistant from partner institutions in Argentina or Spain.

Repeatability: May be taken up to three times for credit but applied to the major or minor only twice (can consist of two 251s; two 291s, or one of each).

## **SPAN 301 - Advanced Spanish: Conversation and Pronunciation**

**Credit Hours: 3**

This course is designed to develop and expand communicative proficiency in Spanish with an emphasis on the variety of Spanish dialects as well as pronunciation, intonation, rhythm, and lexical usage. Students will engage in storytelling, presentations, and debates about general interest topics as well as Hispanic cultures, in order to gain the necessary vocabulary to participate in Spanish conversation at an advanced level.

Prerequisite: SPAN 212, its equivalent transfer credit, or permission of the instructor.

**SPAN 302 - Advanced Spanish: Grammar and Composition****Credit Hours: 3**

This course combines a writing course with a review of Spanish grammar. Students will learn to write in a variety of informal and formal contexts, preparing them for professional communication in Spanish.

Prerequisite: SPAN 212, its equivalent, or permission of instructor.

Note: Given different contracts, the course may be taken twice for credit.

**SPAN 303 - Panoramas of Hispanic Literature I****Credit Hours: 3**

Introduces major literary movements, principal writers, and outstanding works of Spanish peninsular literature.

Prerequisite: SPAN 302 or permission of instructor

**SPAN 304 - Panoramas of Hispanic Literature II****Credit Hours: 3**

Introduces the major literary movements, principal writers and outstanding works of Latin American and literatures by Hispanics in the United States.

Prerequisite: SPAN 302 or permission of instructor

**SPAN 310 - Study Abroad Seminar****Credit Hours: 1**

Satisfies the study abroad requirement for the major. Students attend preparatory meetings and participate in assignments designed to maximize the value of the required study abroad experience. Before departure, students engage in readings and discussions. After study abroad, students submit a reflection paper and/or assigned written work related to their formal and informal learning gained during the stay.

**SPAN 325 - Hispanic Civilization****Credit Hours: 3**

Explores the geographic, ethnic, and cultural diversity of the Spanish-speaking world including the Hispanic heritage of the United States.

Prerequisite: SPAN 212, its equivalent, or permission of instructor.

Repeatability: The course may be repeated for credit as the subject matter changes

## **SPAN 360 - Topics in Hispanic Language and Culture**

**Credit Hours: 1-3**

Provides an opportunity to study a linguistic, literary, or cultural topic related to the Spanish-speaking world. Courses in topical areas not offered in the regular curriculum may be offered on a rotating basis.

Prerequisite: Sophomore standing and permission of instructor

Repeatability: The course may be repeated for credit as subject matter changes.

## **SPAN 431 - Hispanic Culture Seminar**

**Credit Hours: 3**

Provides the advanced student an opportunity to study in depth an aspect of Hispanic culture, which may include: literature, art, business culture, or another approved topic. The course serves as a capstone for the Spanish major.

Prerequisite: Two Spanish courses numbered above SPAN 302 (one of which must be SPAN 303 or SPAN 304) or permission of instructor

## **SPCOM 221 - Sports Communication**

**Credit Hours: 3**

Designed to introduce the field of sports communications and the role it plays in intercollegiate and professional athletics. The course will deal with the workings and process behind executing proper techniques of sport information and media relations.

## **SPCOM 240 - Sports Media**

**Credit Hours: 3**

Exposes students to the craft of sports journalism, from print to online to social media to broadcast. Students will learn to develop sources, understand different forms of stories, how to write, report and analyze sports.

## **SPCOM 321 - Social Media and Technology in Sports**

**Credit Hours: 3**

Focuses on developing the skills needed to manage NCAA events using the latest communication innovations available for collegiate athletics.

Prerequisite: SPCOM 221

## **SPCOM 331 - The Art of Sports Broadcasting**

**Credit Hours: 3**

This course explores the processes of broadcasting in multiple sport environments and emphasizes topics such as professional sports broadcasting, sports talk radio, play-by-play vs. color commentary, broadcasting for non-mainstream sports, gender/ethnicity issues in broadcasting, broadcasting ethics, broadcasting critiques.

**SPCOM 341 - Sports Planning and Promotion**

**Credit Hours: 3**

Focuses on special event planning, processes, and management practices. Students will develop the skills necessary to manage all aspect of a sporting or special event, including planning and logistics, scheduling and marketing, and risk management.

**SPCOM 390 - Topics in Sports Communication**

**Credit Hours: 3**

This course wil explore trends and topics in the sports industry as they relate to the evolving field of sports communication.

Repeatability: Course can be repeated for credit as topics change.

**SPCOM 401 - Sports Communication Practicum**

**Credit Hours: 1**

Provides hands-on experience in the sports communication field. Working in professional settings, students hone the skills learned in their preparatory classes.

Prerequisite: Permission of instructor

**SPCOM 495 - Seminar in Sports Communication**

**Credit Hours: 3**

This is the capstone course for students completing the sports communication major. The students engage in an in-depth research study that links their general course work, their specialized training and their clinical experience. Topics are selected in consultation with the supervising faculty member.

Prerequisite: Permission of instructor

**SPST 105 - Introduction to Sports Analytics**

**Credit Hours: 3**

Is designed to provide the foundations of statistics through the study of sports. Topics include both descriptive and inferential statistics and probability theory. Emphasis is placed on critical thinking in the use of statistics to make decisions.

**SPST 201 - Facility Management**



**Credit Hours: 3**

This course will introduce management theories and provide practical experiences in the design, development, operation, maintenance and administration of various recreational facilities. This course will examine a variety of sport events and venues such as indoor stadiums, athletic field complexes, and community facilities. Management topics will include but are not limited to personnel communication, risk management, budgeting, and the management of physical resources.

**SPST 202 - Sports Governance****Credit Hours: 3**

This course will provide an overview of governance structures within professional and amateur sport organizations. Students will explore policy elements and issues within scholastic, amateur, campus recreation, intercollegiate athletics, professional sport, and Olympic sport. This course will examine the mission, structure and function of sport governing bodies such as the NCAA, NAIA, Professional player's associations, and the IOC.

**SPST 203 - Foundations of Athletic Skill****Credit Hours: 3**

This course instructs the fundamental skills of the individual sports of archery, badminton, bowling, dance, racquetball, and tennis. Instructs fundamental skills of the team sports of basketball, soccer/speedball, softball, volleyball, field hockey (women), and football (men). Special emphasis is placed upon instruction and practice to allow for development of participants skill level.

**SPST 302 - Sports Administration Practicum****Credit Hours: 1**

This course provides hands-on experience in the sport administration field. Working in professional settings, students hone the skills they learned in their preparatory classes.

Prerequisite: Permission of Instructor

Repeatability: This course may be repeated for credit.

**SPST 303 - Coaching Practicum****Credit Hours: 1**

This course provides hands-on experience in the sports coaching field. Work in professional settings, students hone the skills they learned in their preparatory classes. Practicum hours may not be completed in season of the sport a student is participating in at the varsity or junior varsity level.

Prerequisite: Permission of instructor

Repeatability: Student may take the class no more than 3 times for credit.

**SPST 344 - Legal Issues in Sport****Credit Hours: 3**

Provides an introduction to the major legal factors influencing sports and athletics, including gender and Title IX; safety, risk management, and liability; children, special populations, and ADA compliance, and employment issues.

### **SPST 355 - Sports Ethics**

**Credit Hours: 3**

This course explores the various ethical issues in the area of sport and athletics. The class presents the framework for arriving at ethical decisions and actions, while uncovering the pressures to act in an unethical manner.

### **SPST 402 - Sport Administration Practicum**

**Credit Hours: 1**

Provides hands-on experience in the sport administration field. Working in professional settings, students hone the skills they learned in their preparatory classes.

Prerequisite: Permission of Instructor

### **SPST 403 - Coaching Practicum**

**Credit Hours: 1**

Provides hands-on experience in the sports coaching field. Working in professional settings, students hone the skills they learned in their preparatory classes.

Prerequisite: Permission of Instructor

### **SPST 418 - Coaching Team Sports**

**Credit Hours: 3**

This course will provide an overview of the concepts that are essential in the preparation of sport coaching. Students will evaluate the current theoretical perspectives in the field of sport psychology and critically evaluate the current research in coaching sports. Topics include developing a coaching philosophy, evaluating theories in motivation, understanding team dynamics, communicating effectively, and improving player performance.

### **SPST 441 - Sports Management**

**Credit Hours: 3**

This course involves the study of sports business from a managerial and marketing perspective. Studies include the concepts, tactics, and issues across two main thrusts in sports business: (1) the managing and marketing of goods and services directly to consumers of sports, and (2) the managing and marketing of other consumers and industrial goods and services through the use of sport promotion.

Prerequisite: BUSI 221, BUSI 241

### **SPST 490 - Coaching Colloquium**

**Credit Hours: 1**

This course will provide essentials for preparing to coach in a K-12 setting. Students will complete training in topics such as concussions in sports, fundamentals of coaching high school sports, sport injury prevention, sudden cardiac arrest and other topics. Successful completion of the course will aid in students being able to obtain OHSAA Coach Certification.

**SPST 496 - Seminar in Sport Administration****Credit Hours: 3**

The capstone course for students completing the Sport Administration major. The students engage in an in-depth research study that links their general course work, their specialized training and their clinical experience. Topics are selected in consultation with the supervising professor.

Prerequisite: Permission of instructor

**THEA 103 - Practicum in Theatre****Credit Hours: 1**

Provides laboratory or workshop experiences in technical theatre, design, acting, directing, theatre management history, or criticism.

Restrictions: maximum of two hours per year; maximum of four hours toward major or minor.

Note: Registration is by permission of production directors. Graded S/U. Exception: concurrent enrollment in THEA 403 and THEA 496 requires a letter grade.

**THEA 151 - Introduction to Theatre****Credit Hours: 3**

Surveys theatre history and the arts of acting, directing, designing, playwriting, and criticism for a greater understanding of theatre in the world.

**THEA 195 - Topics in Theatre****Credit Hours: 1-3**

This is an introductory course focused upon a variety of subjects in theatre. Topics such as theatre management and technical skills may be offered.

Repeatability: This class may be repeated for credit as content changes, with up to 6 credit hours counting toward graduation.

**THEA 203 - Practicum in Theatre****Credit Hours: 1**

Provides laboratory or workshop experiences in technical theatre, design, acting, directing, theatre management history, or criticism.

Restrictions: maximum of two hours per year; maximum of four hours toward major or minor.

Note: Registration is by permission of production directors. Graded S/U. Exception: concurrent enrollment in THEA 403 and THEA 496 requires a letter grade.

## **THEA 205 - Portfolio Review**

### **Credit Hours: 1**

Assists students in creating, presenting and discussing a professional, digital technical portfolio as preparation for professional technical interviews.

Repeatability: May be repeated three times credit.

## **THEA 223 - Auditioning**

### **Credit Hours: 1**

Examines audition technique for monologues, cold readings, improvisation, and vocal performance. Students prepare headshots and resumes, develop a repertoire of monologues and songs, and audition for professional employment.

Repeatability: May be repeated once for credit.

## **THEA 230 - Stage Management**

### **Credit Hours: 3**

An overview of the duties and work of a stage manager in the theatrical process. Students will learn to create the tools utilized by a working stage manager and gain an understanding of the role of a stage manager in the theatrical process. This course is recommended for a student interested in management, directing, or technical theatre.

## **THEA 245 - Technical Production**

### **Credit Hours: 3**

Involves students through lecture and laboratory work in the technical process of creating theatre. Topics include: reading working drawings and interpreting design, basic carpentry, painting, props technology, sewing, elementary lighting technology, general problem solving, and the safe and proper use of all equipment needed to complete production tasks. Participation in theatre productions is required.

## **THEA 265 - Design I: Explorations in Theatre Design**

### **Credit Hours: 3**

An introductory exploration of the role of design in the theatrical process. The class will focus on interpreting theatrical works through visual research, storytelling, and communication, as well as the initial tools used in each area of design to create and explain these stories. Students will be given hands on experience in all areas of design and will be given the tools needed to choose an area of focus for a final project in Scenic, Costume, or Lighting Design. At the end of the semester they will complete a basic design packet and portfolio in their area of choice.

## **THEA 275 - Acting I**

**Credit Hours: 3**

Examines acting through theories and exercises. Scene study is designed to enable students to create a role for the stage. This is a process-oriented course, which provides the student with a foundation of script analysis and creative skill.

**THEA 285 - Dance for Musical Theatre****Credit Hours: 1-3**

Explores various dance genres appropriate for application in musical theatre. The student studies the historic application of the genre and choreographs and executes/performs music theatre dance styles. The course examines different sets of styles during a three-semester rotation.

Repeatability: The course may be repeated with a maximum of four hours counting toward a music theatre minor or theatre major. A maximum of six hours may be counted toward graduation.

**THEA 303 - Practicum in Theatre****Credit Hours: 1**

Provides laboratory or workshop experiences in technical theatre, design, acting, directing, theatre management history, or criticism.

Restrictions: maximum of two hours per year; maximum of four hours toward major or minor.

Note: Registration is by permission of production directors. Graded S/U. Exception: concurrent enrollment in THEA 403 and THEA 496 requires a letter grade.

**THEA 314 - Acting II****Credit Hours: 3**

Continues to explore acting through theories, exercises, and scene study. Students examine a variety of acting styles, approaches, and genres.

Prerequisite: THEA 275

**THEA 316 - Improvisation****Credit Hours: 3**

Examines the skills and techniques used in improvisational theatre performance. Students build acting skills through exercises, solo work, as well as ensemble activity.

**THEA 350 - A History of Film****Credit Hours: 3**

Surveys the history and nature of film with emphasis upon the American contribution to film art, genres, acting, directing, and cinematography.

## **THEA 351 - World Theatre History**

### **Credit Hours: 3**

Focuses on the historical development of theatrical production. Examines dramatic tradition from Greek origins, observes its evolution through history, and traces the progress of theatrical styles throughout the world. Primary source documents highlight the contributions of major critics and theorists of theatrical tradition.

## **THEA 352 - Dramatic Literature**

### **Credit Hours: 3**

Closely examines representative dramatic literary texts. Particular consideration is given to the application of literature on stages and examining plays for a better understanding of our vast theatrical and cultural heritage.

## **THEA 356 - Playwriting**

### **Credit Hours: 3**

Introduces the basic techniques of structure and dialogue in writing a play. Students experience writing, reading, and revising performance work.

## **THEA 360 - American Musical Theatre: History and Structure**

### **Credit Hours: 3**

An exploration of the development and history of the American musical and its impact on theatre in the United States and abroad. Students will study the evolution of the art-form in order to understand the structure of musical script, and will be given the opportunity to start developing their own musical.

## **THEA 365 - Design II: Intermediate Studies in Theatre Design**

### **Credit Hours: 3**

An intermediate study in theatre design. Students will choose from Scenic, Costume, or Lighting/Sound Design and will progress in their studies from Design I. Topics include but are not limited to advanced visual research, period styles, portfolio creation, sketching and rendering, as well as design area-specific tools.

Prerequisite: THEA 265 or permission of the instructor

## **THEA 375 - Directing I**

### **Credit Hours: 3**

Examines the art of directing through theories and procedures of production, including preliminary applied playscript analysis. Offers introductory experience through the application of the tools of picturization, composition, and movement in the production of several in-class scenes.

Prerequisite: THEA 245, THEA 275

## **THEA 381 - Selected Readings in Theatre**

**Credit Hours: 1-3**

Introduces a variety of theatre genres.

Repeatability: May be repeated twice for credit as content changes.

## **THEA 383 - Professional Studies in Theatre**

**Credit Hours: 3**

Provides field experiences between semesters and during the summer.

## **THEA 395 - Special Topics in Theatre**

**Credit Hours: 1-3**

Focuses upon a variety of subjects in theatre. Topics such as theatre management may be offered.

Repeatability: May be repeated once for credit as content changes.

## **THEA 396 - Theatre Research: Methods and Theory**

**Credit Hours: 3**

This course develops the research and analysis skills necessary to complete the Seminar in Research. Students examine the major critics and theorists of theatrical tradition and are introduced to various research methods.

Prerequisite: Departmental Approval

## **THEA 403 - Practicum in Theatre**

**Credit Hours: 1**

Provides laboratory or workshop experiences in technical theatre, design, acting, directing, theatre management history, or criticism.

Restrictions: maximum of two hours per year; maximum of four hours toward major or minor.

Note: Registration is by permission of production directors. Graded S/U. Exception: concurrent enrollment in THEA 403 and THEA 496 requires a letter grade.

## **THEA 414 - Directing II**

**Credit Hours: 3**

Rigorously studies theories and applications of directing. Students undertake sustained collaborative projects, experience the process of developing personal style, and explore varied techniques and diverse styles of production.

Prerequisite: THEA 375

## **THEA 465 - Design III: Advanced Studies in Theatre Design**

### **Credit Hours: 3**

Building on the studies of Design I and II, Design III is for the advanced Theatre student. Students will continue studies in research and storytelling, as well as studio work, creating the tools needed to communicate a design in their area of focus. The goal of this course is to prepare a student to assist on a departmental production or design a small production when available. Topics include portfolio building, advanced research, technical theatre procedure and elements, sketching and rendering, as well as area-specific topics.

Prerequisite: THEA 245, THEA 365 or permission of the instructor

## **THEA 494 - Methods of Teaching Drama/Theatre**

### **Credit Hours: 2**

Introduces a candidate for teacher certification in drama/theatre to classroom methods and materials necessary for teaching the theatre discipline.

## **THEA 495 - Theatre Senior Seminar**

### **Credit Hours: 3**

Intensively examines a selected theatre area: design, acting/directing, or history/criticism. Students develop a project prospectus in the first four weeks and spend the remainder of the semester in an independent study guided by a faculty member.

Repeatability: May be repeated once for credit.

## **THEA 496 - Independent Study in Realized Production**

### **Credit Hours: 2**

Provides students who have developed approved projects in THEA 495 with an intensive period of production and performance in the areas of design, acting, technology or directing.

Prerequisite: THEA 495 and instructor approval

## **WRLD 111 - Beginning World Language I**

### **Credit Hours: 3**

Designed to develop listening, speaking, writing, and reading skills in a world language as well as intercultural competency.

Prerequisite: This course is intended for students with no prior knowledge of the target language or those who have had 1-2 years or less of the target language instruction in high school.

Repeatability: Course may be repeated up to three times for credit if in different languages.

## **WRLD 112 - Beginning World Language II**



**Credit Hours: 3**

This course is designed as an introduction to listening comprehension, speaking, reading, and writing for students who have had some prior exposure to the language. The primary goal is acquiring communicative proficiency and intercultural skills to prepare you for cross-cultural communication in the workplace and beyond.

Prerequisite: Prerequisite: 2-3 years of high school instruction in the language, WRLD 111 in the same language, or equivalent transfer credit.

**WRLD 200 - Cross-Cultural Communication****Credit Hours: 3**

Examines communication across cultures, including traditional and contemporary definitions of culture, culture and identity, how culture affects perception, variables that act as barriers to successful communication, nonverbal communication cues, theories of culture and theories of communication, dominant American cultural patterns, immigration and acculturation, cultures within cultures, and the lasting effects of contact on cultures. Concepts are illustrated by examples from multiple cultures.

**WRLD 250 - Introduction to Second Language Acquisition****Credit Hours: 3**

Introduces students to the basic theories of how humans learn languages. A basis in first language acquisition learning will be built on theories posited by Skinner, Piaget, Chomsky, and Vygotsky. These theories then lead to an examination and understanding of how learners acquire second languages, including elements of the first and second languages that influence one another.

**WRLD 251 - Conversation Table****Credit Hours: 1**

This 1-credit course is a weekly meeting designed to increase or maintain fluency and to expand vocabulary in a World Language.

Prerequisite: WRLD 111 or 1-2 years of high school instruction in the target language.

Repeatability: The course may be taken up to three times for credit but applied to the major or minor only twice.

**WRLD 300 - TEFL Methods and Approaches****Credit Hours: 3**

Explores the field of teaching English as a foreign language from the perspective of the latest instructional methods and approaches. While relating to general theories from the field of second language acquisition, the course focuses specifically on their application in foreign language environments (i.e., countries where English is not spoken as a native language and/or does not have official or semi-official status).

**WRLD 310 - Study Abroad Experience****Credit Hours: 1**

This course supports study abroad experiences. Students attend preparatory meetings and participate in assignments designed to give instruction on how to prepare for and what to expect from travel. During travel, students engage in a regular practice of communication and support. At the end of the experience, students submit a reflection paper on formal and informal learning gained during the stay. A virtual or in-person presentation may be assigned by the instructor.

Prerequisite: Approved Study Abroad

## **WRLD 360 - Topics in World Language and Culture**

**Credit Hours: 1-3**

Provides an opportunity to study a topic of interest related to world languages and cultures. Courses in topical areas not offered in the regular curriculum may be offered on a rotating basis.

Prerequisite: Sophomore standing and permission of instructor

Repeatability: The course may be repeated for credit as subject matter changes.

## **WRLD 375 - English for TEFL**

**Credit Hours: 3**

Focuses on English grammar and structural components specifically related to students learning English as a second language. In order to be effective EFL teachers, students must have a strong grasp of the grammatical and structural concepts that challenge English Language Learners (ELLs). The course focuses on the metalanguage of English grammar and highlights grammatical and structural concepts with which ELLs typically have difficulty. Methods and strategies of teaching grammar to EFL students are also studied.

## **WRLD 397 - Methods in Teaching World Languages**

**Credit Hours: 3**

This course deals with the theory, methods, and techniques of foreign-language teaching at the pre-K through 12 levels. Does not count toward required hours for language majors.

Co-requisite: EDUC 301

# **Senior Studies**

Senior Studies provide a capstone experience for seniors in their major field of study. Through a seminar (an individual study or an advanced field experience), students learn to use bibliographic and research techniques and sources applicable to their chosen discipline; integrate earlier course work into a coherent pattern; engage in an extensive writing experience; gain experience in oral communication; develop independence, self-reliance and creativity; and explore a topic in depth.

# **Special Programs**

The Center for Regional Planning and Development offers students the opportunity to work with faculty to gain experience solving real-world problems in regional development. Areas of focus include administration, business, the

environment and education. The Center provides southeastern Ohio communities with low-cost solutions, and serves as a laboratory for students to apply to real-world problems what they have learned in the classroom.

Directed Study\* permits students, under special circumstances, to enroll in an existing course at an alternative time to the class schedule. This requires a course contract with a cooperating faculty member and approval by the Provost. The contract specifies required meeting times, readings, writing assignments, studio, or laboratory work. Only students who have earned 60 credit hours are eligible to take courses by directed study. Students may register for directed study courses through the fourth week of the semester. Additional fees may apply.

\*Adult undergraduate degree completers should consult the MAP Guidebook.

**First-Year Seminar** The First-Year Seminar course provides entering first-year students with a common academic experience during their first semester. Muskingum's primary purpose is to develop the "whole person"; in keeping with this mission the course offers an extended orientation to the institutional environment and is designed to create a successful transition to the academic expectations and campus life of the institution. The course, which is required of all first-time, first-year students, includes a significant advising component and introduces students to academic and student services resources.

**Interdisciplinary Majors** draw on offerings in various departments. Students may elect an already established interdisciplinary major in American Studies, Animal Studies, Athletics Communication, Conservation Science, Criminal Justice, Child and Family Studies, Digital Media Design, Environmental Science, Humanities, International Affairs, International Business, Journalism, Molecular Biology, Neuroscience, Public Administration, or Sport and Fitness Science, or may construct a self-designed interdisciplinary major in an area not currently available in the curriculum.

**Internships and Career Field Experiences** encourage students to apply and extend their learning in real-world contexts. In recent years, Muskingum interns have earned academic credit while learning through experience in law and legislators' offices, radio and television stations, hospitals, mental health institutions, businesses, and field research sites. These experiences are sponsored by individual academic departments. The Office of Career Services also assists students seeking internships that complement their personal learning goals. The goals, expectations and specific learning requirements are carefully specified in advance to assure good rapport among University staff, the students, and the various cooperating agencies.

Students may initiate internship proposals, but all internships must meet the same minimum standards and be approved by the department chair or program coordinator, supervising professor, and Provost's Office prior to the beginning of the experience or within two weeks of the beginning of the experience. To be eligible for an Internship, a student must have achieved junior standing (60 hours) prior to the internship and must have at least a 2.5 cumulative GPA. A minimum of 40 work hours combined with readings and written projects or papers is required for each semester hour of credit. Internships are graded S/U. Refer to the departmental listing or website for more details about credit, or speak with the department chair. A maximum of 16 hours of internship, including fieldwork in student teaching, may be applied toward graduation and a maximum of 6 hours may be earned in any one semester or summer session. To be eligible for a Career Field Experience, a student must have earned a minimum of 28 credit hours prior to the beginning of the experience and must have at least a 2.0 cumulative GPA. A minimum of 40 work hours combined with readings and written projects or papers is required for each semester hour of credit, with a maximum of 2 credits allowed per experience.