

# BETHEL UNIVERSITY



COLLEGE OF ARTS & SCIENCES

COLLEGE OF PROFESSIONAL STUDIES

COLLEGE OF HEALTH SCIENCES

# 2017-18

updated October 2017

# Course Description Catalog

**THE CATALOG OF  
BETHEL  
UNIVERSITY  
COURSE  
DESCRIPTIONS  
2017 - 2018**

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# UNDERGRADUATE COURSE DESCRIPTIONS

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## ACCOUNTING

### **ACT 1050 Fundamentals of Accounting I (3 hours)**

This course provides Associate students with an introduction to basic theory and practices of accounting. Students are introduced to basic business transactions, payroll, financial statements, and current accounting trends.

### **ACT 1150 Fundamentals of Accounting II (3 hours)**

In this course, you will complete your studies of basic financial accounting and move into the basic concepts and computations of managerial accounting. Prerequisite: Fundamentals of Accounting I

### **ACT 201 Accounting I (3 hours)**

The meaning and purpose of accounting principles; the accounting cycle including journal entries, posting, trial balances, adjusting and closing procedures; special journals, receivables, payables, inventories; an introduction to partnership accounting.

### **ACT 2010 Accounting I (3 hours)**

A study of analyzing, classifying, and recording business transactions in a manual and computerized environment. Emphasizes an understanding of the complete accounting cycle, preparation of basic financial statements, bank reconciliations, and payroll.

### **ACT 202 Accounting II (3 hours)**

Corporation accounting including capital formation, retained earnings, and dividends; long-term liabilities, accounting for income taxes, and elementary cost accounting systems; financial statement analysis.

### **ACT 2020 Accounting II (3 hours)**

Accounting II expands on what the student learns in Accounting I by focusing on corporate accounting. This course discusses how corporations are structured and formed with an emphasis on corporate characteristics. Stocks, bonds, notes, purchase investments and analysis of financial statements are included, as well as an in-depth look at managerial accounting. Statements of cash flow, budgets, and budget management are also examined. Prerequisite: ACT 2010

### **ACT 203 Integrated Accounting Software (1 hour)**

Hands-on experience with an accounting software package with programs on general ledger, inventory control, accounts payable, accounts receivable, and business payrolls. Course should be taken concurrently with ACT 202. Prerequisite: ACT 201 with a grade of C or better.

### **ACT 2300 Principles of Cost Accounting (3 hours)**

This course is a study of basic cost accounting concepts. The goal is to apply basic cost accounting concepts, evaluate business and financial data, and communicate financial information to a variety of users. Topics include the evaluation of business and financial data to make profit-maximizing decisions.

### **ACT 2400 Introduction to Federal Income Tax (3 hours)**

This course is a study of federal income tax for individuals and other entities. The course will prepare students to identify the legislative process, conduct tax research, evaluate tax implications, and prepare an individual tax return.

**ACT 301 Intermediate Accounting I (3 hours)**

Theory and practice of generally accepted accounting principles including the evolution and development of such principles; a detailed study of cash, receivables, inventories, and plant assets. Prerequisite: ACT 202 with a grade of C or better.

**ACT 302 Intermediate Accounting II (3 hours)**

Continuation of 301; current and long-term liabilities; corporate equity theory; corrections and adjustments; financial ratios and inter period income tax allocation. Prerequisite: ACT 301 with a grade of C or better.

**ACT 303 Computerized Accounting using QuickBooks (3 credit hours)**

A special course developed to afford learning experiences beyond courses in the curriculum. This course covers small business accounting using QuickBooks software. Topics include creating a chart of accounts, recording customer and vendor transactions, processing payroll, and printing reports. In addition, setting up a new company is covered as well as advanced topics such as exporting to Excel software and using the QuickBooks audit trail.

**ACT 311 Cost Accounting I (3 hours)**

An introduction to manufacturing cost accountability; job order and process cost accounting systems; manufacturing overhead including variance analysis; predetermined overhead rates; joint and by-product cost allocation methods. Prerequisite: ACT 202.

**ACT 312 Cost Accounting II (3 hours)**

Accounting for materials and labor costs; standard costing systems; budgeting and capital expenditures. Prerequisite: ACT 311.

**ACT 321 Managerial Accounting (3 hours)**

Accounting from the professional manager's perspective; the use of management accounting as a control tool for management decisions; budgets, profit planning, cost controls, variable costing, and capital investment techniques; cash flow analyses. Prerequisites: BUS 301 and ACT 202 with a grade of C or better. Same as BUS 321.

**ACT 322 Governmental Accounting (3 hours)**

Accounting theory and practice as it applies to federal, state, and local government agencies; not-for-profit organization accounting techniques; budgetary and other compliance requirements; the Single-Audit of 1984; classification of funds including enterprise funds, financial statements, and other reports. Prerequisite: ACT 202 with a grade of C or better.

**ACT 368 Fraud Examination (3 hours)**

This course is designed to provide students with an in-depth look at fraud detection, prevention, investigation, management, and resolution in business environments. Same as BUS 368.

**ACT 399, 499 Individual Study (1-3 hours)**

In-depth study of a subject of interest beyond courses in the curriculum. Prerequisites: Junior standing, approval of advisor and Academic Dean.

**ACT 401 Advanced Accounting (3 hours)**

A study of financial accounting theory and practice relating to accounting for long-term investments, business combination under the purchase and pooling methods, and consolidated financial statements. Segment and interim reporting standards, corporate insolvency, and partnership accounting are also examined. Prerequisite: ACT 302 with a grade of C or better.

**ACT 411 Federal Income Tax (3 hours)**

Study of the basic concepts of federal income taxation as they apply to individuals and businesses. Topics include gross income, exclusions, allowable deductions, and basis for gain or loss on the disposition of property. Prerequisite: ACT 202 with a grade of C or better.

**ACT 412 Advanced Federal Income Tax (3 hours)**

A study of federal taxes imposed on business entities with emphasis on corporations, partnerships, and S corporations. Also includes overview of tax research techniques. Prerequisite: ACT 411 with a grade of C or better.

**ACT 421 Auditing (3 hours)**

Theory and practice of professional independent auditing; generally accepted auditing standards and procedures; professional ethics and internal accounting control; audit programs for specific accounts; legal responsibilities of professional auditors including third-party reliance; working papers and audit reports. Prerequisite: ACT 302 with a grade of C or better.

**ACT 422 Advanced Auditing (3 hours)**

An in-depth analysis of advanced topics within professional independent auditing with special attention to professional standards, the impact of SEC on auditing, the objectives in planning an audit, EDP considerations, and current topics in auditing. Prerequisite: ACT 421 with a grade of C or better.

**ACT 425 Internal Auditing (3 hours)**

An introduction to internal auditing processes, professional standards, internal control systems, and audit evidence embracing sampling and quantitative methods. Includes the discussion of various types of audit applications, including operational, performance, compliance, financial, EDP, and fraud auditing. Prerequisite: ACT 202 with a grade of C or better.

**ACT 440 CPA Problems (3 hours)**

The analysis and review of accounting principles and practices as developed and illustrated in complex selected problems. Discussion of selected problems and theory. Laboratory practice in the solution of typical problems encountered in the CPA examination. Grading will be pass/fail only and not part of elective semester hours in accounting. Prerequisite: Consent of instructor.

**ACT 441 CMA Problems (3 hours)**

The analysis and review of accounting principles and practices as developed and illustrated in complex managerial accounting problems. Discussion of selected problems and theory. Practice in the solution of typical problems encountered in the CMA examination. Grading will be pass/fail only and not part of elective semester hours in accounting. Prerequisite: Consent of instructor.

**ACT 460 Internship (1-12 hours)**

Approved work experience in an accounting environment. Prerequisites: Consent of advisor, senior standing, major in Business Management with Accounting emphasis with at least a B average in accounting courses.

**ACT 490 Special Topics (1-3 hours)**

A special course developed to afford learning experiences beyond courses in the curriculum. Topics for the course require approval of the Academic Dean.

**ACT 495 Honors Project (4 hours)**

Open to seniors by invitation only.

## **ART**

**ART 111 Introduction to Drawing (3 hours)**

Hands-on experience in media and techniques for the beginning art student. Equal emphasis on basic drawing and figure drawing. Opportunities given for development of perception, drawing skills, and the application of the elements and principles of design.

**ART 113 3D Design (3 hours)**

Will consist of a series of projects which will introduce the verbal and visual concepts of 3D Design, Mass, Space, Texture, Space, Scale, Context Line, Plane, Volume and Time will all be addressed. Evaluation of work through individual critique and group discussion will also take place.

**ART 115 2D Design (3 hours)**

Elements of design used to control, organize, and integrate composition. Equal emphasis on two and three dimensional design. Prerequisite: ART 111.

**ART 201 Introduction to Painting (3 hours)**

Experience in a variety of materials and techniques stressing individual approach to creative expression and development of aesthetic judgment.

**ART 206 Introduction to Computer Art (3 hours)**

Introductory course in the application of computer software to the arts. The student will have hands-on experience in free-hand drawing, digitizing, graphics and animation.

**ART 210 Drawing II (3 hours)**

Continues and expands upon the information and skills acquired in Introduction to Drawing with an emphasis on value as the chief conveyer of form. There will be a greater stress on composition as a way of heightening aesthetic interest and conveying information and meaning.

**ART 211 Lettering and Display I (3 hours)**

History and application of lettering; new techniques in lettering and display presented. Offered in summer session only.

**ART 212 Introduction to Visual Arts (3 hours)**

Elements of art, functions of design, techniques, and aesthetics; survey of the history of art of the Western World. Stylistic analysis used to consider major influences determining the character and purpose of art in history.



**ART 213 History of the Visual Arts I (3 hours)**

An introduction to the aesthetic principles of visual arts as exemplified in selected masterpieces from the ancient world to the 15th century.

**ART 214 History of the Visual Arts II (3 hours)**

An introduction to the aesthetic principles of visual arts as exemplified in selected masterpieces from the 16th century to the present period.

**ART 2150 Fine Art in the Modern World (3 hours)**

This survey course examines the interaction between the artist, audience, and the work of art in a study focused on appreciation of art forms from various historical time periods and cultures impacting Western society, such as drama both in theater and film, visual arts, music, architecture, and dance.

**ART 2400 Western Art History (3 hours)**

This course familiarizes students with the most significant artists, artworks and monuments from the prehistoric period to the modern age. It provides students with a general knowledge of the historical periods and the relationship between art and the culture that produced it. Additionally, students will develop the vocabulary and knowledge to discuss the art presented both stylistically and contextually.

**ART 299 Individual Study (1-3 hours)**

Selected media and/or genre for intensive study. Prerequisite: Approval of instructor, advisor, and Academic Dean.

**ART 300 Introduction to Sculpture (3 hours)**

Emphasizes the understanding and manipulation of three-dimensional space using form and scale. Students will explore sculpture using various processes, materials, techniques, tools, and studio safety.

**ART 301 Painting II (3 hours)**

Further investigates thought and expression, critique and review within the language of painting. Students will explore various techniques, as well as fine tune their language and understanding of themselves and their relationship within the world, through the painting process.

**ART 309 Introduction to Ceramics (3 hours)**

Methods of structuring clay objects including hand-build and wheel-throwing techniques, glazing and firing methods.

**ART 311 Lettering and Display II (3 hours)**

This course is a continuation of Art 212 Lettering and Display. New and interesting projects will be explored during this class.

**ART 320 Figure Drawing (3 hours)**

Drawing from live human models and drapery in charcoal, pencil and other materials. Prerequisite: ART 111.

**ART 340 Women in Visual Art (3 hours)**

The development of the visual arts with an emphasis on the female artist. Prerequisite: ART 213.



**ART 351 Digital Photography (3 hours)**

An introductory course in the application of the use of the digital cameras in basic fundamentals, composition, and application of programs. Prerequisite: ART 111 and 206.

**ART 360 Non-Western Art History (3 hours)**

The development of the visual arts in non-western cultures from Paleolithic to modern times.

**ART 399, 499 Individual Study (1-3 hours)**

In-depth study of a subject of interest beyond courses in the curriculum. Prerequisite: Junior standing; approval of advisor and Academic Dean.

**ART 401 Art for Life: Elements and Activities (3 hours)**

Basic fundamentals of art history, criticism, aesthetics, media, and techniques. Philosophies and objectives of art for all ages, recreational and aesthetic. Student-led class activities to demonstrate personal knowledge and leadership in a group experience.

**ART 410 Concepts, Process, and Criticism (3 hours)**

An interdisciplinary course that emphasizes concepts, context and narrative in the production of art. Students will focus on formulating an individualized process for expressing personal meaning in art, writing and responding to art criticism, and developing professional practices and habits.

**ART 416 Senior Thesis Exhibition (3 hours)**

Students will present a portfolio of works during their senior year for jury by the faculty and a public exhibition.

**ART 490 Special Topics (1-3 hours)**

A special course developed to afford learning experiences beyond courses in the curriculum. Topics for the course require approval of the Academic Dean.

## **ATHLETIC TRAINING PROGRAM**

*\*Note: all clinical courses in the Athletic Training major require formal admission into the professional phase of the Athletic Training Program (ATP), and will therefore be open only to ATP students.*

**ATR 100 Athletic Taping and Bracing (3 hours)**

This course consists of lecture and lab-based instruction to introduce students to the various products and equipment used in the development and construction of pads and braces for injury prevention during sport and physical activity, and teaches students how to properly apply basic taping, wrapping, bracing, and padding techniques that are common practice in athletic training and sports medicine.

**ATR 200 Foundations of Athletic Training (3 hours)**

This course introduces the student to clinical athletic training education and the foundational behaviors of professional practice in athletic training. Current topics in athletic training that will be taught in this course include, but are not limited to, prevention and health promotion, clinical examination and diagnosis, therapeutic interventions, health care administration, psychological aspects of sports injury and rehabilitation, and evidence-based practice.

**ATR 245 Clinical I (2 hours)**

Prerequisites – ATR 100, ATR 200, HEA 330, HSC 216, HSC 230. In this course, students will refine basic athletic training skills, including developing clinical skills; athletic training clinic operations (e.g., policies and procedures, record keeping, basic health care nomenclature); emergency and acute care of injuries and illnesses; and athletic taping, wrapping, bracing and padding competencies previously taught in didactic coursework. Students will be introduced to the Clinical Integration Proficiencies portfolio.

**ATR 250 Therapeutic Modalities (3 hours)**

Prerequisites – HEA 330. This course introduces the student to the various thermal, mechanical, and electrical modalities that are used in athletic training and physical therapy to promote healing and rehabilitation of injury. The course consists of lecture and lab-based instruction on the use of therapeutic modalities in clinical practice (e.g., cryotherapy, thermotherapy, hydrotherapy, electrical stimulation, ultrasound, diathermy, traction, therapeutic massage, and compression therapy).

**ATR 260 Principles of Rehabilitation (3 hours)**

Prerequisites – HEA 330. This course introduces the student to the foundational knowledge and clinical skills of therapeutic interventions used in the rehabilitation process for treating the physically active population. The course consists of lecture and lab-based instruction to facilitate students' understanding of the purpose and goals of various therapeutic exercises, equipment, and other rehabilitation techniques used in an effective rehabilitation program for restoring and developing range of motion, strength, balance, agility, cardiorespiratory fitness, muscular endurance, and activity-specific skills following injuries or illnesses affecting the musculoskeletal, cardiovascular, and neurological systems.

**ATR 330 General Medicine and Pharmacology in Athletic Training (4 hours)**

Prerequisites - BIO 309, BIO 310, or HEA/PED 320, HEA 330, BIO 316 or HSC 216. In this course, the student will gain cognitive and psychomotor skills needed for recognition, referral, and appropriate treatment of general medical conditions and disabilities of individuals involved in sport and physical activity. The student will also learn the appropriate pharmacological interventions used to treat injuries and illnesses.

**ATR 340 Clinical II (2 hours)**

Prerequisites – ATR 250, ATR 360. In this course, students will refine basic athletic training skills, including foundational behaviors of professional practice; risk management; general assessment and evaluation; specific injury assessment and intervention for head, face and spine; and therapeutic modalities competencies previously taught in didactic coursework.

**ATR 345 Clinical III (2 hours)**

Prerequisites – ATR 260, ATR 330, ATR 361, HEA 201, HSC 212. In this course, students will refine intermediate and advanced athletic training skills, including the body's response to injury and illness; specific injury assessment, diagnosis and interventions for lower extremity; general medical conditions, disorders, and diseases; and basic nutrition, pharmacology, and wellness competencies previously taught in didactic coursework.

**ATR 360 Introduction to Assessment and Intervention (3 hours)**

Prerequisite – ATR 200 and Admission to the AT Program. This course consists of lecture and lab-based instruction designed to introduce the student to general assessment and evaluation of orthopedic injuries, which includes identification, physical evaluation, postural and gait analysis, treatment, and referral guidelines. Additionally the student will learn the specific injury assessment and diagnosis for injuries pertaining to the head and face, cervical, thoracic and lumbar spine and pelvis. This course will also broaden the student's knowledge and clinical skills learned in ATR 250 & 260, by establishing core therapeutic interventions and rehabilitation for injuries.

**ATR 361 Assessment and Intervention I (4 hours)**

Prerequisites – ATR 250, ATR 260, ATR 360 Pre/Corequisite – BIO 309. This course is a continuation of ATR 360 which consists of lecture and lab-based instruction designed to enhance the student's understanding of the assessment and evaluation process for the lower extremity. The student will learn the specific injury assessment and diagnosis for injuries pertaining to the hip, thigh, knee, lower leg, foot, and ankle. This course will continue to broaden the student's knowledge and clinical skills learned in ATR 250 & 260, through the application of therapeutic intervention and rehabilitation for injuries sustained to the lower body.

**ATR 362 Assessment and Intervention II (4 hours)**

Prerequisite – ATR 361. This course is a continuation of ATR 361, which consists of lecture and lab-based instruction designed to enhance the student's understanding of the assessment and evaluation process for the upper extremity. The student will learn the specific injury assessment and diagnosis for injuries pertaining to the abdomen, chest, shoulder, elbow, wrist, and hand. This course will continue to broaden the student's knowledge and clinical skills learned in ATR 250, 260 and ATR 361, through the application of therapeutic intervention and rehabilitation for injuries sustained to the upper body.

**ATR 410 Organization and Administration in Athletic Training (3 hours)**

Prerequisite – Successful completion of all didactic ATR coursework. This course explores administrative theories and strategies necessary to serve in different positions in the various athletic training settings. Topics include, but are not limited to, leadership and management styles, policies and procedures, resource management, legal and ethical standards in professional practice, purpose of regulatory agencies and their role at state, national and federal levels, and risk management.

**ATR 440 Clinical IV (3 hours)**

Prerequisites – ATR 362, HSC 381. In this course, students will refine intermediate and advanced athletic training skills, including specific injury assessment and interventions for upper extremities; therapeutic exercise and rehabilitation; and evidence-based practice competencies previously taught in didactic coursework. Students will begin working on a research project specific to the field of athletic training.

**ATR 445 Clinical V (3 hours)**

Prerequisites – ATR 410. In this course, students will refine advanced athletic training skills, including integrated injury management; healthcare administration; psychosocial interactions; and professional development competencies previously taught in didactic coursework. Students will complete their ongoing research project and Clinical Integration Proficiencies portfolio in this course.

## BIOLOGY

### **BIO 100, 100L Essentials of Biology (3, 1 hours)**

Integrated view of life with emphasis on four core areas: cells, genes, evolution, and ecology. Designed for students who are not majoring in Biology, Chemistry, Pre-Pharmacy, Pre-Physician Assistant Studies, or Nursing or minoring in Biology or Pre-Professional Health Sciences. Laboratory.

### **BIO 1009 Biology Today (3 hours)**

Broad coverage of the biological sciences. Topics include natural phenomena, scientific methodology, and current issues related to biology and society.

### **BIO 111, 111L Introduction to Biology I (3, 1 hours)**

Introduction to the science of biology with focus on biological chemistry, cell biology, genetics, and evolution. Designed for students who are majoring in Biology, Chemistry, Pre-Pharmacy, Pre-Physician Assistant Studies, or Nursing, as well as those minoring in Biology or Pre-Professional Health Sciences. Laboratory. Prerequisite: Appropriate program of study or permission of the instructor. No student may be enrolled in BIO 111 while enrolled in any course below the 100 level.

### **BIO 112, 112L Introduction to Biology II (3, 1 hours)**

Continued investigation of the science of biology with focus on biological diversity, plant biology, animal biology, and ecology. Laboratory. Prerequisite: BIO 111 with a grade of "C" or higher.

### **BIO 200, 200L Human Biology (3, 1 hours)**

Introduction to human anatomy and physiology. Topics include an introduction to the structure and function of the human organ systems and their integration. Laboratory.

### **BIO 300 Environmental Ethics (3 hours)**

A study of the various ethical issues arising as humans interact with the environment. The class will examine classic cases in environmental ethics, survey local environmental issues, and develop an environmental ethic in the context of environmental policy issues. Same as SCI 300. Prerequisites: BIO 112 or SCI 115

### **BIO 302, 302L Comp Chordate Morphology (3, 1 hours)**

Study of the morphology of the Cordate in order to develop and understanding of the evolutionary relationships, adaptations, form, and function of the group. Laboratory. Prerequisite: BIO 111 with a grade of "C" or higher.

### **BIO 304, 304L Genetics (3, 1 hours)**

Principles of Mendelian and modern genetics and biochemical basis of inheritance. Laboratory. Prerequisite: BIO 111 with a grade of "C" or higher.

### **BIO 305, 305L Population Biology and Evolution (3, 1 hours)**

Biology of animals and plants at the population level; organization and structure related to speciation and evolution. Laboratory. Prerequisite: BIO 304.

### **BIO 308 Computer Applications in Statistics and Research (3 hours)**

Introduction to the use of computer software in statistical analysis; database applications, biological models, and simulations. Introduction to scientific writing. Prerequisite: BIO 111 with a grade of "C" or higher.

**BIO 309, 309L Human Anatomy and Physiology I (3, 1 hours)**

Designed for pre-nursing and other programs in allied health fields. Topics include cell structure and biochemistry, histology, and anatomy and physiology of skeletal, muscular, sensory, and nervous systems. Laboratory. Prerequisite: BIO 111 with a grade of "C" or higher.

**BIO 310, 310L Human Anatomy and Physiology II (3, 1 hours)**

Continuation of BIO 309. Topics include the anatomy and physiology of circulatory, respiratory, endocrine, digestive, excretory, and reproductive systems. Aspects of metabolism, body fluids, electrolytes, and acid-base balance are covered. Laboratory. Prerequisite: BIO 309.

**BIO 311, 311L Introduction to Microbiology (3, 1 hours)**

Bacteria, protozoa, fungi, and viruses studied from the point of view of health sciences. Laboratory. Prerequisite: BIO 111 with a grade of "C" or higher.

**BIO 312, 312L Environmental Phys of Animals (3, 1 hours)**

How animals cope with particular kinds of environment, considering the biochemical, physiological, behavioral, and ecological adaptations that allow animals to survive in those environments. Laboratory. Prerequisite: BIO 111 with a grade of "C" or higher.

**BIO 314, 314L Botany (3, 1 hours)**

Classification, diversity, morphology, physiology, evolution, and ecology of plants and fungi. Laboratory. Prerequisite: BIO 112.

**BIO 316 Medical Terminology (3 hours)**

Using learner-oriented, self-study, and programmed text, students gain skill in recognizing roots, definitions, pronunciation, spelling, and classification by body and organ system used in medical terminology.

**BIO 398, 498 Seminar in Biology (1 hour)**

An in-depth examination of current topics of interest in biology. Format will include discussion groups, readings of current literature, and speakers from outside the Bethel campus. Prerequisite: Approval of advisor.

**BIO 399, 499 Individual Study ( 1-3 hours)**

In-depth study of a subject of interest beyond courses in the curriculum. Prerequisites: Junior standing, approval of advisor and Academic Dean.

**BIO 401, 401L Ecology (3, 1 hours)**

Intraspecific and interspecific interactions between organisms and their environment. Topics include biogeochemical cycles, ecological energetic, population dynamics, and community and ecosystems ecology. Laboratory. Prerequisites: BIO 111, 112.

**BIO 413, 413L Topics in Biochemistry and Physiology (2-6 hours)**

Intensive introduction to various interrelated sub-disciplines of biochemistry and physiology. Choice of topics includes medicinal chemistry, chemistry-nutrition and health food products, pesticides and the environment. May include laboratory. Prerequisite: CHE 201 or 312. Same as CHE 413.

**BIO 415 Mammalogy (4 hours)**

Mammalian morphology, classification, distribution, life histories, evolution, and ecology. Techniques of field study, methods of collection and preservation of mammals. World mammals with emphasis on mammals of North America. Laboratory. Prerequisites: BIO 111, 112.

**BIO 416 Ichthyology (4 hours)**

Fish morphology, physiology, development, behavior, evolution, and ecology. World fishes with emphasis on freshwater fish of the Mid-South. Laboratory. Prerequisites: BIO 111, 112.

**BIO 417 Herpetology (4 hours)**

Classification, distribution, life histories, techniques of field study, methods of collection and preservation of amphibians and reptiles. World reptiles and amphibians with emphasis on those found in the Southeastern United States. Laboratory. Prerequisites: BIO 111, 112.

**BIO 418 Ornithology (4 hours)**

Classification, distribution, life histories, techniques of field study, methods of collection and preservation of birds. World birds with emphasis on birds of Tennessee, including waterfowl and Neotropical migrants. Laboratory. Prerequisites: BIO 111, 112.

**BIO 419, 419L Cell Biology (3, 1 hours)**

Introduction to the major features of cells and the methods by which they are studied. Included will be structural and functional aspects of organelles, the diversity of cell types, and the major mechanisms by which cells reproduce, develop, and evolve. Laboratory. Prerequisites: BIO 304, 311.

**BIO 421 Conservation Biology (4 hours)**

Principles and techniques of ecological research in conservation of biological diversity at genetic, population, community, and ecosystem level. Includes discussion of public policy and individual advocacy. Laboratory. Prerequisite: BIO 112 or SCI 115.

**BIO 422/422L Immunology and Infectious Diseases (3, 1 hours)**

Studies include innate and adaptive immune responses and their applications, immune disorders, host/pathogen interactions, epidemiology, and treatments. Infectious diseases of specific body systems are covered from the point of view of health sciences. Prerequisite: BIO 311.

**BIO 423 Cell Biology II (3 hours)**

A continuation of the study of a cell with an emphasis on cellular membranes (structure and transport), intracellular compartments, cytoskeleton, cell signaling. Included is an introduction to the concepts of cancer biology. Prerequisite: BIO 419.

**BIO 429/429L Developmental Biology (3, 1 hours)**

Designed for students in the biological and allied health fields to introduce the field of Developmental Biology. Topics include Principles of Development, Early Embryonic Development, Later Embryonic Development, and Ramifications of Developmental Biology. These topics range from Evolution of Developmental Patterns, Fertilization, and Differential Gene expression to Postembryonic Development. Prerequisite: BIO 304.

**BIO 430 Medical Ethics and Legal Issues (3 hours)**

Medical legal ethics studies, explores and examines in detail the history of ethics, the development of a personal ethical framework, the major ethical theorists, critical analysis techniques, current legal issues, science and ethics, privacy, and the electronic medium. Prerequisite: Senior status or instructor's permission. Prerequisites: BIO 310 or 312 or permission of instructor.

**BIO 460 Internship (1-12 hours)**

Approved work experience in a science-oriented environment. Prerequisite: Approval of advisor and Academic Dean.

**BIO 490 Special Topics (1-3 hours)**

A special course developed to afford learning experiences beyond courses in the curriculum. Topics for the course require approval of the Academic Dean.

**BIO 495 Honors Project (4 hours)**

Open to seniors by invitation only.

**BIO 497 Biology Capstone (2 hours)**

The capstone course emphasizes integration of skills and knowledge from all program tracts of the Biology Major providing the graduating Biology student with a unifying summation of concepts from across the biology major. Other areas to be emphasized in the biology capstone are development of critical thinking skills and professional mentoring of students. Prerequisites: open only to Biology majors and must be taken in the last semester of academic work prior to graduation. Students who complete this course are exempt from COE 401.

## **BUSINESS**

**BUS 1100 Introduction to Management (3 hours)**

This course is an overview of the management function within an organization.

**BUS 111 Introduction to Business (3 hours)**

Survey of business disciplines including economics, management, finance, accounting, marketing, and business law. Does not fulfill requirements for a major in Business Administration.

**BUS 112 Personal Finance (3 hours)**

An introduction course designed to enable the student to consider the factors that are involved in managing personal resources. Topics include budgeting, checking accounts, borrowing money, buying real and personal property, buying health and life insurance, and consumer information.

**BUS 113 Principles of Business (3 hours)**

This course explores the interrelationships of management, marketing, professional communication, and finance.

**BUS 1140 Personal and Family Finances (3 hours)**

This class is a survey of personal finance. Topics include goal setting, cash management, budgeting, purchasing, insurance and investments, tax planning, and estate planning.



**BUS 1150 Concepts of Business (3 hours)**

A survey of the fundamental aspects of business. Topics covered include entrepreneurship, management/leadership, marketing, accounting, law, financial management, and global challenges to business.

**BUS 1175 Introduction to Personal Finance (3 hours)**

This course focuses on management of personal resources, investments, and financial decision making.

**BUS 120 Fundamentals of Personal Finance (3 hours)**

Presents a framework of personal money management concepts, including establishing goals, sources of income, a budget, and insurance. The course will also explore planning for adequate retirement and estate planning.

**BUS 1200 Introduction to Marketing (3 hours)**

This course is an overview of the marketing functions including sales, promotion, consumer behavior, and research.

**BUS 1300 Introduction to Accounting (3 hours)**

This course is an overview of financial and managerial accounting principles.

**BUS 1400 Introduction to Finance (3 hours)**

This course is an overview of the basic principles of finance. Topics covered in the course include financial analysis and financial risk, characteristics and valuations of securities, capital investment analysis and decision making, the capital structure of the firm, financial leverage, and international finance. The aim is to use financial information to make sound business decisions.

**BUS 255 Microcomputer Applications (3 hours)**

A course designed to introduce students to the world of microcomputer applications as it applies to the world of business. The concentration will be on familiarizing students with the different types of applications for businesses, both off the shelf and specialized. Same as CIS 255.

**BUS 265 Microcomputer Applications for Business (3 hours)**

Topics discussed are computer terminology, hardware, software, operating systems, and information systems relating to the business environment. The main focus of this course is on business applications of software, including word processing, spreadsheets, databases, presentation graphics and business-oriented utilization of the Internet.

**BUS 269 Financial Planning (3 hours)**

Financial planning process and its applications.

**BUS 2700 Productivity Applications (3 hours)****BUS 300 Business and Professional Writing (3 hours)**

Business presentations, progress reports, statistical and research reports, interview techniques, and the use of communication technology in the professional business setting are explored.

**BUS 301 Principles of Management (3 hours)**

Introduction to fundamentals of business management. Includes organizational behavior, operations management, human resource management, and control systems in management. Topics include TQM and quality-based management. better.

**BUS 302 Principles of Marketing (3 hours)**

Marketing fundamentals for business and non-profit organizations. Includes product development, promotional activities, distribution, and pricing.

**BUS 304 Business Finance (3 hours)**

Long-term markets, securities, financial leverage, cost of capital, and topics related to financing a business enterprise. Prerequisites: BUS 301, 302, 310 and ACT 202 with a grade of C or better.

**BUS 305 Labor Economics (3 hours)**

Economic factors in social organizations, economic institutions, problems of labor and industry. Unions and social and economic institutions. Problems of management and worker. Same as ECO 305.

**BUS 307 Management Information Systems (3 hours)**

Organization and structure of management information systems: design and implementation of management information systems, evaluation of hardware and software requirements, and development of management information system policies. Same as CIS 307

**BUS 308 Environmental Economics (3 hours)**

An introduction to the economic analysis of environmental issues with consideration given to the particular "mode of production." Topics include the influence of politics and technology, the examination of environmental quality, and sustainable systems. A critique of political economy as it relates to environmental concerns will be formulated. Same as ECO 308.

**BUS 310 Business Law I (3 hours)**

Survey of the legal environment of business. The course includes constitutional law and the structure of the U.S. legal system; tort, criminal, contract, and administrative law. Topics in anti-trust law, international legal issues, consumer protection, and employment law.

**BUS 311 Business Law II (3 hours)**

The course includes coverage of the Uniform Commercial Code, business organizations, secured transactions, and negotiable instruments. Topics include international commercial transactions, legal obligations of corporate officers, rights of shareholders, and security interests.

**BUS 313 International Business (3 hours)**

Overview of the international environment of business including cultural, economic, political, and financial issues in the functional areas of business management, marketing, finance, accounting, etc. Examination of large and small businesses engaged in international business activities.

**BUS 315 Consumer Behavior (3 hours)**

Applications of contemporary behavioral sciences to problems of the consumer in the marketplace. Emphasis is placed on analyzing the decision-making process of the consumer as the ultimate buyer of products and services. Prerequisite: BUS 302 or permission of the instructor.

**BUS 316 Organization Theory (3 hours)**

An introduction to organization theory as it relates to structure, process, and change. The actual use of organizational design is introduced through case studies as well as reading and lecture.

**BUS 317 Organizational Behavior (3 hours)**

This course provides conceptual understanding of various principles of management and organizational processes and the opportunity for skill-building in the areas of individual, interpersonal, and inter-group organizational behaviors. Topics covered include perception, group behavior, decision-making, motivation, leadership, and organizational design and change.

**BUS 321 Managerial Accounting (3 hours)**

Accounting from the professional manager's perspective; the use of management accounting as a control tool for management decisions; budgets, profit planning, cost controls, variable costing, and capital investment techniques; cash flow analyses. Prerequisites: BUS 301 and ACT 202 with a grade of C or better. Same as ACT 321.

**BUS 325 Knowledge Management (3 hours)**

Exploration and application of knowledge management concepts and principles. Same as CIS 325.

**BUS 330 Business and Technical Writing (3 hours)**

Basic writing skills applicable to business situations including proposals, feasibility studies, progress reports, statistical and research reports, technical descriptions, and manuals. Same as ENG 330. Students who earn a grade of C or better in this course are exempt from COE 401. Prerequisite: ENG 201.

**BUS 339 Seminar in Entrepreneurship (3 hours)**

This course provides structure for an applied entrepreneurial experience through Students in Free Enterprise (SIFE). Students apply concepts of business structure and operations to an outreach project. May be repeated for credit.

**BUS 368 Fraud Examination (3 hours)**

This course is designed to provide students with an in-depth look at fraud detection, prevention, investigation, management, and resolution in business environments. Same as ACT 368.

**BUS 399, 499 Individual Study (1-3 hours)**

In-depth study of a subject of interest beyond courses in the curriculum. Prerequisites: Junior standing, approval of advisor and Academic Dean.

**BUS 411 Investments (3 hours)**

Investment objectives, corporate securities, securities markets, market analysis, and portfolio theory. Prerequisites: ACT 202 and ECO 211.

**BUS 412 Human Resource Management (3 hours)**

Advanced course in the management of human resources. Includes human resource planning, job analysis and design, legal aspects of human resource management, compensation, selection, training and development, and safety. Prerequisite: BUS 301 with a grade of C or better.

**BUS 413 Business Policy and Strategy (3 hours)**

Capstone course for the Business Administration major; application of material from previous courses and additional focus on strategy. Prerequisites: BUS 301, 302, 304, 307, ACT 202.

**BUS 416 Marketing Research (3 hours)**

An introduction to the major areas of research in marketing. Attention given to problem definition, research design, information gathering, and data analysis to assist management with the decision-making process. Prerequisite: BUS 302.

**BUS 417 Business Ethics and Society (3 hours)**

An introduction to basic types of ethical theories and applications to decision-making. The course identifies moral issues involved in the management of specific problem areas of business. Examines the interactions between business and the larger social/political system in which it operates. Acquaints students with the social responsibilities of business activity.

**BUS 418 Production and Operations Management (3 hours)**

Linear programming, queuing theory, PERT/CPM, advanced control methods, and decision theory. Prerequisite: BUS 301 with a grade of C or better.

**BUS 419 Advertising and Promotion (3 hours)**

Advanced concepts in advertising and promotion management. Focus on the development of the advertising campaign and its integration into the promotional effort. Prerequisite: BUS 302 with a grade of C or better.

**BUS 460 Internship (1-12 hours)**

Approved work experience in a business environment. Prerequisites: Consent of advisor, senior standing, major in Business Administration.

**BUS 490 Special Topics (1-3 hours)**

Selected topics from business will be explored in greater depths and from alternate perspectives as demanded by student/instructor interest or by changing business practices. Specific topics will vary by semester. Course may be repeated for credit. Prerequisite: Junior standing or consent of instructor.

**BUS 495 Honors Project (4 hours)**

Open to seniors by invitation only.

## CHEMISTRY

**CHE 100, 100L Concepts in Chemistry (3, 1 hours)**

Concepts of chemistry including principles of scientific investigation, the states of matter, atomic structure and bonding, shapes of molecules, and an overview of chemical reactions. Additional selected topics of current interest. Does not count toward a major in chemistry. Laboratory and class must be taken concurrently unless one has been successfully completed.

**CHE 106, 106L Introduction to Chemistry (3, 1 hours)**

Introductory chemistry. Basic principles of chemistry with applications including physical and chemical properties, structure, and reactions of matter for beginners. Grade of C or above in CHE 106, 106L required for admission to CHE 111L.

**CHE 111, 111L General Chemistry I (3, 1 hours)**

Fundamental principles underlying various fields of chemistry including formulas and equations, atomic and molecular structure, solutions, equilibrium, thermochemistry, kinetics, acids and bases, oxidation-reduction, and electrochemistry. Laboratory. Prerequisite: one year of high school chemistry with a minimum ACT composite score of 21 or a minimum ACT composite score of 25 for students with no previous introduction to chemistry. Permission of the instructor may be granted in exceptional circumstances. Co-requisite: MTH 111 or exemption from MTH 111.

**CHE 112, 112L General Chemistry II (3, 1 hours)**

Continuation of CHE 111. Topics include solutions, equilibrium, thermodynamics, kinetics, acids and bases, oxidation-reduction, and electrochemistry. Laboratory and class must be taken concurrently unless one has been successfully completed. Prerequisite: CHE 111. Only students who are repeating CHE 112 having previously earned a D or F and students who earned a D in CHE 111 are required to enroll concurrently in a 1-hour pass/fail recitation class (CHE 112D)

**CHE 121, 121L Principles of Chemistry I (3, 1 hours)**

Fundamental laws of chemistry including topics such as atomic and molecular structure, stoichiometry, chemical bonding, reaction equilibria, acids and bases, kinetics and nuclear chemistry. Prerequisite or Co-requisite: MTH 111 or above. CHE 121 does not fulfill prerequisite requirements for any upper division chemistry courses.

**CHE 122, 122L Principles of Chemistry II (3, 1 hours)**

Basics of organic and biological chemistry including topics such as the study of functional groups, amino acids, lipids, carbohydrates, nucleic acids, enzymes and biochemical pathways. Experimental techniques in organic and biochemistry comprise the lab component. Prerequisite: CHE 111 or 121. CHE 122 does not fulfill prerequisite requirements for any upper division chemistry courses.

**CHE 215, 215L Environmental Chemistry (3, 1 hours)**

General knowledge of biochemical and geochemical environmental cycles and the fate of chemicals in the environment. Prerequisite: CHE 106, 106L or a higher level chemistry.

**CHE 291 Introduction to Chemical Research (2-8 hours)**

Laboratory-based investigation with faculty guidance to afford learning experiences beyond the curriculum. Formal laboratory notebook, laboratory reports, and weekly research group meetings and discussion with chemistry faculty. Prerequisite: CHE 111, 111L and approval of instructor. May be repeated.

**CHE 311, 311L Organic Chemistry I (3, 1 hours)**

Theory and description of molecular structure; properties, reactions, and synthesis of organic compounds. Laboratory. Prerequisite: Grade of C or above in CHE 112, 112L.

**CHE 312, 312L Organic Chemistry II (3, 1 hours)**

Continuation of CHE 311 with the introduction of qualitative organic laboratory techniques and organic unknowns. Laboratory. Prerequisite: CHE 311.

**CHE 320, 320L Analytical Chemistry (3, 1 hours)**

Principles of gravimetric and volumetric analysis, techniques, and procedures. Physical methods of characterization and separation. Theory and practice in instrumental methods of chemical analysis, including gas chromatography, infrared spectroscopy, nuclear magnetic resonance spectroscopy, ultraviolet spectroscopy, mass spectrometry, and Raman spectroscopy. Laboratory. Prerequisites: Completion of CHE 111, 111L, 112, 112L with a grade of C or above.

**CHE 330 Survey of Physical Chemistry (3 hours)**

Non-calculus based. Ideal and non-ideal gases; the first, second, and third laws of thermodynamics; thermochemistry, solutions, chemical equilibria, phase equilibria, electromotive force. Kinetics theory; chemical kinetics, irreversible processes in solution. Elementary quantum theory. Prerequisites: MTH 123, CHE 112.

**CHE 340 Chemical Literature and Seminar I (1 hour)**

A course for chemistry and pre-pharmacy majors to introduce prospective chemists to the chemical literature. Prerequisite: open only to chemistry and pre-pharmacy majors and to be taken in the spring of the sophomore or junior year.

**CHE 391, 491 Research in Chemistry (1-2 hours)**

A laboratory-based investigation of selected, original research problem, aiming toward presentation of the findings at some recognized scientific meeting or in some recognized scientific publication. Weekly research group meetings and discussions with the chemistry faculty. One to two hours each semester with a cumulative total towards the major not to exceed four hours. Laboratory. Prerequisite: 18 semester hours in chemistry, department approval.

**CHE 399, 499 Individual Study (1-3 hours)**

In-depth study of a subject of interest beyond courses in the curriculum. Prerequisite: Junior standing, approval of advisor and Academic Dean.

**CHE 401 Survey of Pharmacology (3 hours)**

Basic understanding of the principles of pharmacology to include knowledge of the general history and nature of drugs; absorption, distribution, metabolism, and elimination of drugs in the body; mechanisms of drug action; major drug categories and characteristics of prototypical drugs. Prerequisite: CHE 412 or permission of instructor.

**CHE 412, 412L Biochemistry (3, 1 hours)**

Survey of biochemistry including processes occurring in living organisms, their substrates, products, and energetics. Mechanisms and significance of biochemical processes are studied. Enzymology, intermediary metabolism, macromolecules, biosynthesis, bioenergetics, homeostasis, biologically active agents. Prerequisite: Grade of C or above in CHE 312.

**CHE 413, 413L Topics in Biochemistry and Physiology (2-6 hours)**

Intensive introduction to various interrelated sub-disciplines of biochemistry and physiology. Choice of topics includes medicinal chemistry, chemistry-nutrition and health food products, pesticides and the environment. May include laboratory. Prerequisites: CHE 312. Same as BIO 413.

**CHE 414 Topics in Analytical Chemistry (1-3 hours)**

Advanced knowledge of a current area of chemistry and demonstrated ability to apply knowledge critically. Prerequisite: Grade of C or better in CHE 320.

**CHE 422 Biochemistry II (3 hours)**

Continuation of CHE 412 with more comprehensive study of metabolic and information pathways. Prerequisite: CHE 412.

**CHE 430 Advanced Inorganic Chemistry (3 hours)**

Advanced knowledge of atomic and molecular structure and bonding theories; descriptive chemistry of the elements; mechanism of inorganic reactions; application of modern techniques for characterization; and coordination and organometallic chemistry. Prerequisite: Grade of C or better in CHE 312, 312L.

**CHE 431 Advanced Organic Chemistry (3 hours)**

A review and extension of the facts and theories of organic chemistry with emphasis on mechanisms of reactions and stereochemistry. Prerequisite: CHE 312

**CHE 440 Chemical Literature and Seminar II (1 hour)**

A course for chemistry and pre-pharmacy majors to introduce prospective chemists to the chemical literature and literature searching techniques. Students will also learn to prepare various technical manuscripts and will gain experience in giving diverse types of oral presentations. Prerequisites: open only to chemistry and pre-pharmacy majors and to be taken in the spring in the last academic year prior to graduation. Students completing this course are exempt from COE 401.

**CHE 460 Internship (1-12 hours)**

Approved work experience in a science-oriented environment. Prerequisite: Approval of advisor and Academic Dean.

**CHE 490 Special Topics (1-3 hours)**

A special course developed to afford learning experiences beyond the courses in the curriculum. Topics for the course require approval of the Academic Dean.

**CHE 495 Honors Project (4 hours)**

Open to seniors by invitation only.

## **COLLEGE ORIENTATION EXPERIENCE**

**COE 1000 College Orientation Experience (3 hours)**

This course will provide students with the skills needed to succeed as online learners. Topics covered will include using technology, library and learning resources, and APA style.

**COE 1005 Online Success in Professional Studies (3 hours)**

This course is designed for online students only. It provides students with the necessary skills for success in a Virtual Classroom. Emphasis is placed on professional discussion in the virtual environment. Other topics cover student support services, virtual library literacy, financial aid, and academic planning.

**COE 1009 Introduction to University Writing (3 hours)**

An introduction to the practices of university writing. The emphasis is on developing rhetorical knowledge; critical thinking, reading, and writing skills; understanding of the processes of writing; and knowledge of conventions. The course does not fulfill General Education English requirements.



**COE 101 Introduction to College Experience (3 hours)**

Opportunity for first-year students to learn about themselves and adjust to college life. This course sets the groundwork for meeting educational goals in academic, social, physical, emotional, and spiritual dimensions. Topics include study skills, financial aid, library orientation college catalog and curriculum, registration overview, campus life, and social issues. Training on computers and computer software. Class is mandatory in the College Start program. A grade of C or above must be earned to advance to the next course.

**COE 102 College Orientation Experience (2 hours)**

Opportunity for first-year liberal arts students to learn about themselves and adjust to college life. This course sets the groundwork for meeting educational goals in academic, social, physical, emotional, and spiritual dimensions. Topics include study skills, financial aid, library orientation, college catalog and curriculum, registration overview, campus life, and social issues. Training on computers and computer software. Exemption: Transfer students who were full time at post-secondary institutions and earned at least 12 hours of college credit are not required to complete College Orientation Experience (COE 102).

**COE 105 Introduction to Professional Studies (3 hours)**

This course sets the groundwork for success in meeting educational goals in the College of Professional Studies. Topics include study skills, financial aid, library orientation, college catalog and curriculum, and registration. There is also an overview of computer skills and computer software necessary for success.

**COE 250 Career S.T.A.R. Leadership (1 hour)**

An opportunity to provide leadership techniques for upper classmen as they assist entering freshmen with making the transition from high school to college.

**COE 4000 Online Practicum (1 hour)**

The Online practicum will provide the student with information designed to assist with job searching and career building. Students will not only learn about themselves and their career goals, but how to strengthen their skill set. Topics include Networking, Resume Writing, Cover Letters, Interviews, Follow-up and Negotiation.

**COE 401 Career Opportunity Experience (1 hour)**

Opportunity to participate in actual interview processes for job/graduate school placement assistance and career contacts. Participation in seminars, workshops, and job fairs. Students who earn a grade of C or higher in BUS/ENG 330 or PSY 322 are exempt from COE 401. Students who major in Nursing or who minor in Professional Education are not required to complete this course. Prerequisite: Junior or Senior classification.

## COMPUTER INFORMATION SYSTEMS

**CIS 100 Introduction to Computers (3 hours)**

Designed for students who wish to gain knowledge of computer uses, concepts, and terminology. The role of computers in business, education, and society is highlighted. Other topics include professional ethics, standards, hardware, software, and computer occupations.

**CIS 101 Introduction to Operating Systems (3 hours)**

Introduction to Windows Vista operating system. Introduction to the Windows/Vista operating environment. Topics include navigating the Vista interface, file organization and management, use of the Control Panel, OneNote, and Explorer. Back-up and system restoration procedures and installation of updates and service packs are also included.

**CIS 245 Web I – Intro to Web Development (3 hours)**

Designed to introduce students to the process of designing and developing basic web pages using current development language and platform.

**CIS 255 Microcomputer Applications (3 hours)**

A course designed to introduce students to the world of microcomputer applications as it applies to the world of business. The concentration will be on familiarizing students with the different types of applications for businesses, both off the shelf and specialized. Same as BUS 255.

**CIS 256 Computer Programming I (3 hours)**

A modern programming language is used to introduce students to the fundamentals of computer programming. Students will analyze computing problems, design and implement solutions for these problems. Topics include language syntax and semantics, program logic and methodologies. Prerequisite: MTH 111 or higher with a grade of “C” or above. Same as CSC 256.

**CIS 307 Management Information Systems (3 hours)**

Organization and structure of management information systems: design and implementation of management information systems, evaluation of hardware and software requirements, and development of management information system policies. Same as BUS 307

**CIS 325 Knowledge Management (3 hours)**

Exploration and application of knowledge management concepts and principles. Same as BUS 325.

**CIS 326 Information Technology (3 hours)**

Study of technology integration in today’s work environment. This course is designed to develop a solid foundation of computer knowledge and skills in word processing, spreadsheets, multiple presentation technologies, screen recordings, interactive white board, and simple Web design.

**CIS 341 Instructional Technology (3 hours)**

This course explores the application of technologies that support learning in a K-12 setting. Content will include an examination of technology integration techniques using various application tools, instructional technologies, and productivity technologies.

**CIS 345 Web II – Developing Web-Based Applications (3 hours)**

This course will provide students with the skills to design and develop database-enabled web applications. Prerequisites: CIS 245, junior standing.

**CIS 349 Computer Hardware and Small Computer Systems (3 hours)**

A course designed to introduce CIS students to the world of hardware as it applies to the world of business with concentration on defining user needs, procurement, life cycle, current and future technologies for business.

**CIS 356 Computer Programming II (3 hours)**

A continuation of CIS 256. Practice in using object oriented and event driven programming models. Introduction to GUI programming. Prerequisite: CIS 256. Same as CSC 356.

**CIS 370 Introduction to Computer Forensics (3 hours)**

Introductory course to computer forensics. Topics will include various methods of gathering, processing, interpreting, and using digital evidence to provide a conclusive description of cyber crime activities suitable for inclusion in a criminal investigation. Same as CJS 370. Prerequisite: CIS 255 or permission of instructor.

**CIS 380 Computer Networking (3 hours)**

This course provides an introduction to fundamental concepts in the design and implementation of computer communication networks, their protocols, and applications. Topics to be covered include layered network architectures, applications, network programming interfaces (e.g., sockets), transport, physical media, data link protocols, local area networks and network routing.

**CIS 382 Introduction to Systems Analysis (3 hours)**

This course will introduce information systems students to the concepts and techniques used in structured systems analysis and design. This course provides a methodical approach to developing computer systems including systems planning, analysis, design, testing, implementation, and software maintenance.

**CIS 399, 499 Individual Study (1-3 hours)**

In-depth study of a subject of interest beyond courses in the curriculum. Prerequisites: Junior standing, approval of advisor and Academic Dean.

**CIS 462 Database Design and Application Development (3 hours)**

This course is designed to give the student experience in designing and developing database applications suitable for business environment. The course will focus on the microcomputer environment utilizing software such as Microsoft Access. Prerequisites: CIS 255. Same as CSC 462.

**CIS 475 Management of Telecommunications (3 hours)**

A course designed to introduce CIS students to the world of telecommunications as it applies to the world of business. The concentration will be on defining user needs, procurement, life cycle, current and future technologies for business.

**CIS 477 Management of End User Computing (3 hours)**

Capstone course for the CIS Major; application of material from previous courses and additional focus on the management of end user computing. A course designed to introduce CIS students to the principles involved in managing all components involved with End User Computing including software development and maintenance. Prerequisites: CIS 245, 307, 382, 462, 475, 6 hours programming language, and 3 hours CIS course numbered 300 or above.

**CIS 479 Electronic Commerce (3 hours)**

This course will address electronic commerce technology and strategies and the impact e-commerce will have on the fields of information systems and organizational strategies.

**CIS 490 Special Topics (1-3 hours)**

A special course developed to afford learning experiences beyond courses in the curriculum. Topics for course require approval of Academic Dean.

## COMPUTER SCIENCE

### **CSC 112 Engineering Graphics (3 hours)**

Introductory engineering graphics using T-squares, triangles, etc. The course moves quickly into a CAD package. Topics include orthographic projections, section drawings, auxiliary projections, dimensioning, isometric drawings and assembly drawings. Class and lab meet weekly for a total of six hours. Laboratory. Same as GRA 112.

### **CSC 203 PASCAL (3 hours)**

Primer programming course using PASCAL. NO prior computer experience required. Laboratory.

### **CSC 211 Computer Assisted Design (3 hours)**

This course is a continuation and amplification of CSC/GRA 112. It includes topics in descriptive geometry involving points, lines, and planes by use of the auxiliary view method. The class and lab meet weekly for a total of four hours. Laboratory. Prerequisite: CSC/GRA 112. Same as GRA 211.

### **CSC 242 Programming in C (3 hours)**

Introduction to programming in C++. This is a course in problem solving and algorithms using the computer language C++. It emphasizes good programming habits and building abstractions with C++ functions. Use of files and printing will also be included. Laboratory.

### **CSC 256 Computer Programming I (3 hours)**

A modern programming language is used to introduce students to the fundamentals of computer programming. Students will analyze computing problems, design and implement solutions for these problems. Topics include language syntax and semantics, program logic and methodologies. Prerequisite: MTH 111 or higher with a grade of "C" or above. Same as CIS 256.

### **CSC 341 FORTRAN (3 hours)**

Introductory course in the computer language FORTRAN, which is the computer language for mathematics. Topics include problem solving, variable types, decisions, and loops. Laboratory. Prerequisites: CSC 203, MTH 123.

### **CSC 342 Numerical Methods (3 hours)**

Computer solutions to mathematical problems in areas of calculus, theory of equations, and matrices. Laboratory. Prerequisites: MTH 321. Same as MTH 342. Previous programming experience is recommended.

### **CSC 343 Applications in C (3 hours)**

This is a continuation of CSC 242. Emphasis will be placed on designing applications programs in C++. Topics will include creating application shells and dialog layouts using dialog boxes, static text, and radio buttons. The course includes integrating mouse controls and adding graphics to the application. Laboratory. Recommended prerequisite: CSC 242.

### **CSC 356 Computer Programming II (3 hours)**

A continuation of CIS 256. Practice in using object oriented and event driven programming models. Introduction to GUI programming. Prerequisite: CSC 256. Same as CIS 356.

**CSC 360 Data Structures and Algorithms (3 hours)**

Survey of advanced data structures (including lists, trees, and networks) and the design and analysis of algorithms used with such structures. Prerequisite: CSC 343 or CIS/CSC 356 or equivalent.

**CSC 462 Database Design and Application Development (3 hours)**

This course is designed to give the student experience in designing and developing database applications suitable for business environment. The course will focus on the microcomputer environment utilizing software such as Microsoft Access. Prerequisites: CIS 255. Same as CIS 462.

**CSC 472 Computer Hardware (3 hours)**

Digital electronics and robotics including bread boarding, digital circuits, truth tables, gating, decade counters, terminology, motors, algorithms, and applications. Laboratory.

**CSC 490 Special Topics (1-3 hours)**

A special course developed to afford learning experiences beyond courses in the curriculum. Topics for the course require approval of the Academic Dean.

**CSC 499 Individual Study (1-3 hours)**

In-depth study of a subject of interest beyond courses in the curriculum. Prerequisite: Junior standing, approval of advisor and Academic Dean.

**CRIMINAL JUSTICE (COLLEGE OF PROFESSIONAL STUDIES)****CCJ 1005 Fundamentals of Criminal Justice (3 hours)**

This course is a basic study of the criminal justice system. It involves an analysis of the criminal justice system focusing on the police, courts, and corrections.

**CCJ 1020 Introduction to Police Crime Control Strategies (3 hours)**

This course examines historic and philosophical content of police crime control strategies. Additionally the course will study emerging formats, proactive investigations, and systematic strategic approaches to reducing crime, deployment issues, and structured evaluative research.

**CCJ 1025 Introduction to Deviant Behavior (3 hours)**

Deviant Behavior explores deviance in the United States and around the world. A wide range of deviant and criminal activities area is addressed. In addition, an overview of the prevalence and incidence of specific forms of deviant behavior are exposed looking at theoretical explanations.

**CCJ 1030 Introduction to Delinquency in Society (3 hours)**

This course is divided into three sections and will be broken into five classes. The first is the nature an extent of delinquency. The second section is delinquency theories and the third section is special topics in the juvenile justice system including delinquency prevention.

**CCJ 1100 Introduction to Homeland Security (3 hours)**

The purpose of this course is to provide a broad view of Homeland Security. The course will include homeland security from varied perspectives including terrorism and natural disasters. In addition students will examine 9-11, national security and the security cycle, at the evolution of homeland security as well as future issues.

**CCJ 1150 Foundations of Corrections (3 hours)**

Discusses the trends and developments in all elements of a modern correctional system for the treatment of juvenile and adult offenders.

**CCJ 1250 Introduction to the U.S. Court System (3 hours)**

This course is an introduction to the U.S. court system as it relates to criminal procedure at the municipal, state and federal levels.

**CCJ 2000 Overview of Criminal Procedure (3 hours)**

This course is an overview of the constitutional parameters of the criminal justice process during all phases.

**CCJ 2010 Introduction to Law Enforcement (3 hours)**

This course is an overview of the policing function including community policing and juvenile policing.

**CCJ 2200 Drugs in Society (3 hours)**

This course explores the issues related to the use and abuse of drugs in contemporary society. The psychology of drug use and abuse are explored. The sociological implications of widespread drug use are considered.

**CCJ 2550 Crime Investigation (3 hours)**

This course covers the fundamental principles and procedures employed in the investigation of a crime. Emphasis is placed on the investigation of specific crimes, the identification of sources of information and the procedures necessary for the proper handling of evidence. This course is designed to develop a working knowledge of the steps of investigation beginning with the initial security of the crime scene and concluding with the presentation of evidence and proper testimony in court. Laboratory experiences are designed to reinforce the material covered in class lectures.

**CCJ 3010 Principles of Criminal Justice (3 hours)**

The agencies and processes involved in administering justice: the police, the prosecutor, the courts, and correctional systems. Focus is on the formal crime control process in the United States.

**CCJ 3090 Ethical Issues in Law Enforcement (3 hours)**

This course explores ethical issues, questions, and problems relevant to law enforcement. Emphasis will be placed on recognizing these ethical issues, applying personal and professional decision-making skills, explaining the consequences of ethical and unethical behaviors, and analyzing the roles of moral maturity and personal character in the professional life of law enforcement officers.

**CCJ 3210 Principles of Corrections (3 hours)**

An overview of the policies and practices that affect offenders in institutional and community settings. Topics of discussion include mandatory sentencing laws, offender education programs, institutional and community drug treatment programs, boot camps, house arrest, intensive supervision probation, work release, and community work service.

**CCJ 3300 Statistics in Criminal Justice (3 hours)**

Methods of analysis of statistical data frequently used in criminal justice decision-making.

**CCJ 3410 The U. S. Court System (3 hours)**

A look at the structure of the court system, court processes and an up-to-date review of current trends.

**CCJ 3500 Principles of Law Enforcement (3 hours)**

A course designed to provide students with an understanding of the foundations of law enforcement. Discussion begins with the history of policing in this country and continues to topics that examine the the relevant characteristics of city, state, and federal police work. Services and importance of different police activities (patrol, traffic, criminal investigation) are explained. Particular attention is paid to current issues and trends in law enforcement

**CCJ 3510 Community Policing (3 hours)**

This course is an examination of community-oriented policing and problem solving (COPPS) in the context of ever-changing police departments and communities. Students will be introduced to the philosophy of community policing and problem solving in the United States and will develop an understanding of the processes involved in implementing COPPS in a law enforcement agency. Students will examine the evolution of community policing, the implementation of COPPS, and methods of evaluating COPPS initiatives.

**CCJ 3605 Management for Law Enforcement (3 hours)**

A systems-based course focusing on the organization, management, and administration of local, state, and federal criminal justice agencies with emphasis on how the structure and functions of such agencies affect the administration of justice.

**CCJ 3750 Criminal Procedure: Pre-Trial (3 hours)**

This course emphasizes the pre-trial rights of persons suspected or accused of crime. The topics covered include but are not limited to arrest, search and seizure, interrogation, and pre-trial processes.

**CCJ 3810 Fraud Investigation (3 hours)**

An introduction and overview of fraud investigations. A primary focus of this course will be the various types, causes, impacts, and laws related to fraud. Students in this course will work on analyzing current examples of fraud and applying best practices to investigations. In addition, students will work collaboratively to develop educational outreach information for the surrounding community.

**CCJ 3820 Review of Forensic Science (3 hours)**

The concepts, techniques, and methodologies of forensic science are examined in this course. Topics discussed may include fingerprint and firearm identification, forensic anthropology, odontology, serology, DNA tracing, forensic document examination, crime scene kits, and trace evidence.

**CCJ 3950 Criminal Procedure: Adjudication (3 hours)**

Examination of criminal procedure beginning with an accused's right to representation at a lineup and ending with post trial issues. Topics discussed are admissibility of evidence, search and seizure, prosecutorial and judicial misconduct, and sentencing. This is a continuation of CCJ 3750.

**CCJ 4050 Introduction to Crime Theory (3 hours)**

A survey of the major schools of thought related to crime causation with particular theories about crime and delinquency.

**CCJ 4105 Drugs and the Justice System (3 hours)**

This course focuses on the problems of illicit drug use in contemporary society. Students will also examine strategies used by criminal justice agencies to prevent and control illicit drug use.



**CCJ 4120 Serial Killers (3 hours)**

A course that will outline the cultural, family, religious and psychological profiles of serial killers as well as how they choose their victims. Stereotypes and myths will also be explored.

**CCJ 4195 International Criminal Justice Systems (3 hours)**

A comparison between the U.S. and various international criminal justice systems. Topics of discussion include criminal procedure, constitutions, court systems, law enforcement agencies, and correction systems.

**CCJ 4295 Introduction to Juvenile Justice (3 hours)**

An introduction to the concept of delinquency and the field of juvenile justice. Students will examine the nature of delinquency, as well as a variety of theories and suspected causes of delinquent behavior. Topics include gender, family, peers, drug use, school, and community. This course will also familiarize students with the history of juvenile justice and the juvenile justice process. Students will develop an understanding of the juvenile court process, juvenile detention, prevention and treatment.

**CCJ 4395 Community-Based Corrections (3 hours)**

A study of probation, parole, pre-trial release, and intermediate sanctions. Specifically, this course will review critical issues and trends in community-based corrections.

**CCJ 4495 Criminal Victimization (3 hours)**

An introductory course to the field of victimology. Student will discuss the history and theories behind criminal victimization; addressing issues such as race, gender, class, ethnicity, and sexual-orientation.

**CCJ 4650 Crisis Management in Law Enforcement (3 hours)**

The course explores the basic knowledge and procedures necessary for law enforcement leadership to plan, mitigate, and respond to a crisis and its consequences. Same as MOD 4450.

**CCJ 4700 Seminar in Criminal Justice (1-3 hours)**

Topical seminars presented by leading experts in the field of criminal justice.

**CRIMINAL JUSTICE STUDIES (COLLEGE OF ARTS & SCIENCES)****CJS 210 Introduction to Criminal Justice Studies (3 hours)**

This course is designed to provide students with an introductory experience in the study of criminal justice. The course will provide a survey of related topics to include: the nature of crime, law and criminal justice, policing and law enforcement, the courts, and corrections.

**CJS 313 Ethics in Criminal Justice (3 hours)**

Identifies and explores ethics and values in the criminal justice system, paying special attention to issues of social inequality. Discusses remedial strategies and behavior relating to unethical behavior from an individual and group perspective.

**CJS 320 Introductions to Corrections (3 hours)**

The history, current practices, and future directions of corrections.

**CJS 350 Introduction to Law Enforcement (3 hours)**

The development of U.S. policing, stressing the relationship of police to local politics and the effects of civil service, reform movements, and technological change.

**CJS 370 Introduction to Computer Forensics (3 hours)**

Introductory course to computer forensics. Topics will include various methods of gathering, processing, interpreting, and using digital evidence to provide a conclusive description of cyber crime activities suitable for inclusion in a criminal investigation. Same as CIS 370. Prerequisite: CIS 255 or permission of instructor.

**CJS 372 Police Administration (3 hours)**

An organizational management and systems approach to the study of police administration. Emphasizes the administration of various police functions, organizational structures, resources management, operational techniques, professional ethics, and leadership principles and their implications for generalized and specialized units.

**CJS 374 Homeland Security (3 hours)**

A survey of the principal sources of threat to the homeland. Special emphasis on modern day terrorism methods from weapons of mass destruction to hostage-taking and mass casualty attacks.

**CJS 389 Criminal Procedure I (3 hours)**

Constitutional aspects of criminal procedures, including investigations, arrests, search and seizures, and pre-trial processes.

**CJS 391 Criminal Procedure II (3 hours)**

Constitutional aspects of criminal procedures, including trial rights, sentencing, and appeals (a continuation of Criminal Procedure I).

**CJS 392 Criminal Investigations (3 hours)**

Overview of general principles of forensic science, techniques, equipment, and methodologies as used in crime laboratories. Focus on finger print and firearm identification, trace evidence (hair, fiber, paint, glass), blood DNA evidence, forensic document examination, crime scene kits, and forensic microscopy.

**CJS 393 Advanced Criminal Investigations (3 hours)**

This course focuses on the field investigation of crimes against people, crimes against property, and crimes against the state. Emphasis on crime scene processing, evidence collection and preservation, preparation for trial, and selection of evidence for court presentation. Prerequisite: CJS 392.

**CJS 400 Criminal Law (3 hours)**

Theories and principles of the body of substantive criminal law. Covers the elements of the range of criminal offenses from violations to capital felonies. Prerequisites: CJS 210, junior class standing.

**CJS 410 Criminal Evidence (3 hours)**

Study of the presentation of proof in criminal trials. Designed to develop an understanding of the admissibility of testimonial, scientific, and demonstrative evidence in criminal trials including coverage of the Federal Rules of Evidence. Prerequisite: CJS 210, junior class standing.

**CJS 411 Drugs and Crime (3 hours)**

Explores the topic of drug use and abuse in contemporary life from a sociological and psychological perspective, with particular attention to the implications of drug taking behavior on society in general and the criminal justice system in particular.

**CJS 412 Criminological Theory (3 hours)**

The major theoretical explanations for crime and delinquency.

**CJS 414 The Appellate Process (3 hours)**

This course focuses on the process of appeals in the American judicial system. From the record that is created in the trial court to the judgment and opinion rendered by the appellate court, it examines the various stages of an appeal from the lower court's decision.

**CJS 420 Comparative Justice (3 hours)**

A Survey of contemporary foreign criminal justice and differences emerging from various political, cultural and legal systems.

**CJS 428 Victimology (3 hours)**

Theories and history shaping the bio-psycho-social and environmental characteristics of crime and violent victimization are examined with emphasis on their intersection with issues of race, gender, class, ethnicity, and sexual orientation. Same as HUS 428.

**CJS 432 Juvenile Justice (3 hours)**

Theoretical foundations of delinquency causation. Historical tracing of the American juvenile justice system including the juvenile court and its jurisdiction. Police interaction with juveniles; treatment and correctional strategies for young offenders. Examination of prevention and treatment approaches.

**CJS 440 Community Corrections (3 hours)**

Focus is on probation, parole and other intermediate sanctions and community treatment options. Each is examined from both punishment and treatment model perspectives.

**CJS 460 Internship (1-12 hours)**

Approved work experience in a criminal justice environment. Prerequisites: Consent of Advisor, Instructor, Division Chair, and Academic Dean.

**CJS 490 Special Topics (1-3 hours)**

A special course developed to afford learning experiences beyond courses in the curriculum. Topics for the course require approval of the Academic Dean.

## CUSTOMER RELATIONSHIP MANAGEMENT

### **CRM 1200 Introduction to Retailing (3 hours)**

This course is an overview of basic principles, concepts, and practices in the operation of retail organizations.

### **CRM 2000 Introduction to Customer Service (3 hours)**

This course is an introduction o basic customer service management including handling difficult customers and managing customer expectations.

### **CRM 2100 Leadership in Customer Service (3 hours)**

This course focuses on leadership in the customer service industry including interpersonal relationships and team building.

### **CRM 2200 Introduction to Retailing II (3 hours)**

This course is an overview of basic principles, concepts, and practices in the opeation of retail organizations. It is a continuation of CRM 1200.

### **CRM 2500 Professionalism in Customer Service (3 hours)**

This is the capstone course in customer relationship management. The focuses on an applied approach to managing relationships to achieve maximum profitability and efficiency.

### **CRM3500 Customer Relationship Management (3 hours)**

This course develops the student's understanding of the importance and value created by customer relations. Some of the concepts learned in this course include the impact of relationship marketing, its connection with technology, strategy cycles, and customer loyalty

### **CRM 3800 Customer Service (3 hours)**

Customer Service is typically the defining factor in a customer's decision to buy products and services or do business with an organization. Students will discover tips, techniques, and strategies for successfully interacting with a variety of customers in various situations and organizations

### **CRM4200 Services Management (3 hours)**

This course focuses on providing value to the customer in a services industry through management. By managing the customer experience, companies are taking a more active role in the way their business is perceived. Concepts learned in this course include service operations, competitive strategies, multiple stakeholders, and management of the customer experience

### **CRM4600 Services Marketing (3 hours)**

This course emphasizes the implementation of a customer-centered marketing plan in service-based businesses. Service businesses make up an ever-growing segment of the economy and students will learn important marketing strategies to incorporate in order to retain customers. Taught with a managerial focus, some of the concepts taught in this course include service innovation, service delivery, integrated marketing communications, and the financial side of service.

## DEVELOPMENTAL

### **DEP 020 Pre-Algebra (3 hours)**

Elementary mathematics concepts including whole numbers, fractions, mixed numbers, decimals, and percentages; algebraic concepts including polynomials, exponents, and irrational numbers; operations and application of these topics. Hours completed do not count toward graduation requirements. Grade of C or better is required before proceeding to MTH 021.

### **DEP 030 Reading Basics (3 hours)**

Pre-threshold course in reading. Assessment of individual reading skills with a specific individual program to enhance reading level. Study of techniques for skimming, speed reading, developing accurate comprehension, and individualized time reading processes. A grade of C or better is required before proceeding to ENG 111. Hours completed do not count toward graduation requirement.

### **DEP 050 Academic Success Skills (1 hour)**

Required of all students on Academic Probation. Pass/fail grade only. Hour completed does not count toward graduation requirement.

## ECONOMICS

### **ECO 1000 Introduction to Economics (3 hours)**

This course is a broad overview of macro and micro economics in market and non-market economies.

### **ECO 211 Principles of Macroeconomics (3 hours)**

Macroeconomics; national income, gross national product, economic growth, consumption, savings, investments, cycles, and current problems.

### **ECO 212 Principles of Microeconomics (3 hours)**

Microeconomics; market system, price theory costs, marginal theory, and the market mechanism.

### **ECO 305 Labor Economics (3 hours)**

Economic factors in social organizations, economic institutions, problems of labor and industry. Unions as social and economic institutions. Problems of management and worker. Same as BUS 305.

### **ECO 308 Environmental Economics (3 hours)**

An introduction to the economic analysis of environmental issues with consideration given to the particular "mode of production." Topics include the influence of politics and technology, the examination of environmental quality, and sustainable systems. A critique of political economy as it relates to environmental concerns will be formulated. Same as BUS 308.

### **ECO 490 Special Topics (1-3 hours)**

A special course developed to afford learning experiences beyond courses in the curriculum. Topics for the course require approval of the Academic Dean.

**ECO 499 Individual Study (1-3 hours)**

In-depth study of a subject of interest beyond courses in the curriculum. Prerequisite: Junior standing, approval of advisor and Academic Dean.

## EDUCATION

**EDU 210 Foundations of Education (3 hours)**

Historical, philosophical and societal foundations of American education. Exploration of the nature of schooling in a democratic society and the relationship of the school with non-school educational agencies. Special emphasis on Multicultural Education and cultural foundations to develop knowledge, self-awareness, and skills/competencies for effective teaching in a pluralistic society. Co-requisite: EDU 341.

**EDU 215 Problem Solving in Elementary Math (3 hours)**

Estimation, basic facts and algorithms, algebraic and trigonometric concepts, measurement, geometry, probability and statistics, patterns and functions. Investigations, connections to other subjects, and technology utilization that promote age-appropriate conceptual understanding and mathematical reasoning. Math content taught in this course will be consistent with the Content and Process Standards of the National Council of Teachers of Mathematics and Tennessee State Curriculum Standards for Grades K-6. Prerequisite: EDU 210.

**EDU 221 Field Experience I (1 hour)**

Observation and limited classroom activities in an assigned K-12 setting. Examination of various foundational influences in practice. Thirty clock hours of documented observation, journal, and seminars. Prerequisite: EDU 210, EDU 241, TEP I.

**EDU 318 Strategies Teaching K-12 Curriculum (3 hours)**

Lesson and unit planning aligned with Tennessee Curriculum Framework and Interstate New teacher Assessment and Support Consortium (INTASC) Standards. Techniques and methods of teaching: Microteaching with peers. Prerequisite: EDU 210, EDU 341 TEP I, Co-requisite: EDU 321

**EDU 321 Field Experience II (1 hour)**

Observation and limited classroom activities in an assigned K-12 setting. Examination of various foundational influences in practice. Thirty clock hours of documented observation, journal, and seminars. Prerequisite: TEP I, Co-requisite: EDU 318.

**EDU 323 Educational Psychology (3 hours)**

This course is an introduction to the psychology of learning, and of motivational and social development. Focus is on the development of learning theory, the physiological and environmental factors that influence learning and the validity of various learning paradigms. This course is designed for future teachers to make application of psychology to learning processes and theories. During this course, students will review individual differences, measurement, motivation, emotions, intelligence, attitudes, problem solving, thinking and communicating in educational settings. Other topics of interest will include: psychological problems involved in the education and the practical application of psychological principles of teaching. Special emphasis is on measurement, the nature of learning, and the environmental influences of behavior will be given.

**EDU 334 Assessment (3 hours)**

Study of the design, administration, scoring, interpretation and statistical analysis of teacher-made, norm-based, criterion-referenced, curriculum based and authentic performance-based assessment Tennessee Value Added Assessment System (TVAAS) data analysis. Developmental and academic screening, assessment, diagnosis, and planning for students with specific academic deficits. Simulation exercises in multidisciplinary team/planning, progress monitoring through RTI2. Introduction to a variety of assessment instruments Application in simulated case studies. Prerequisite: MTH 111, MTH 113 or EDU 215, TEP I.

**EEDU 337 Teaching Science and Social Studies in Elementary Schools (3 hours)**

This course will cover effective teaching strategies, materials, and content of science and social studies in the elementary schools, an integration of basic content and effective strategies across the curriculum, and knowledge of State standards. An emphasis is placed on cultural diversity, unit, lesson development and microteaching, and implementation of these two subjects.

**EDU 338 Teaching Math in Elementary Schools (3 hours)**

This course will cover effective teaching of research-based strategies, materials, and content of mathematics in the elementary schools, an integration of basic content and effective strategies across the curriculum, and knowledge of NCTM and TN standards. An emphasis is placed on cultural diversity, meeting the needs of the exceptional student, unit and lesson development, and microteaching.

**EDU 339 Teaching Reading and Language Arts in Elementary Schools (3 hours)**

Research-based instructional strategies aligned with Tennessee Curriculum Framework, International Reading Association (IRA) Standards and INTASC Standards. In-depth study of hierarchy of reading skills, including phonemic, syntactic, semantic and contextual analysis. Emphasis on teaching students with ethnic, cultural, and language diversity, students with exceptionalities, and students who are English Language Learners (ELL) Effective teaching strategies, content, and materials for teaching language arts and reading across the curriculum. The integration of language arts across subject areas. Interdisciplinary theme unit and micro-teaching applications required.

**EDU 340 Reading Remediation (3 hours)**

Development and application of techniques in diagnosing reading problems in students of all ages. Familiarity with appropriate assessment instruments, adaptive instructional methods, hands on application with children who manifest reading difficulties. Designing remediation plans based on progress monitoring.

**EDU 341 Instructional Technology (3 hours)**

This course explores the application of technologies that support learning in a K-12 setting. Content will include an examination of technology integration techniques using various application tools, instructional technologies, and productivity technologies. Co-requisite: EDU 210.

**EDU 400\* Teaching Science in Secondary Schools (3 hours)**

Curriculum planning, teaching and evaluation practices for grades 7-12 science; emphasis on characteristics and needs of all secondary students, including students diverse in race/ethnicity, language, or special needs, through a variety of instructional techniques, including reading and mathematics skills in the content area. Unit and lesson development using Tennessee and national standards; micro-teaching. Prerequisites: TEP I, EDU 318.



**EDU 403\* Teaching English in Secondary Schools (3 hours)**

Curriculum planning, teaching and evaluation practices for grades 7-12 English; emphasis on characteristics and needs of all secondary students, including students diverse in race/ethnicity, language, or special needs, through a variety of instructional techniques, including reading and mathematics skills in the content area. Unit and lesson development using Tennessee and national standards; micro-teaching. Prerequisites: TEP I, EDU 318.

**EDU 405\* Teaching Social Studies in Secondary Schools (3 hours)**

Curriculum planning, teaching and evaluation practices for grades 7-12 social studies; emphasis on characteristics and needs of all secondary students, including students diverse in race/ethnicity, language, or special needs, through a variety of instructional techniques, including reading and mathematics skills in the content area. Unit and lesson development using Tennessee and national standards; micro-teaching. Prerequisites: TEP I, EDU 318.

**EDU 406\* Teaching Math in Secondary Schools (3 hours)**

Subject-specific curriculum planning, teaching, and evaluation practices for grades 7-12; awareness of characteristics and needs of secondary students; self-evaluative skills; peer relations. Emphasis on cultural diversity. Unit and lesson development; micro-teaching. Observation hours Required: 20

**EDU 412 Teaching Language Arts and Social Studies in Elementary Schools (3 hours)**

Effective teaching strategies, content, and materials for teaching language arts and social studies in elementary school. Integration of language arts and social studies content across subject areas. Emphasis on cultural diversity. Unit and lesson development; micro-teaching. Prerequisites: TEP I, EDU 318.

**EDU 413 Teaching Math and Science in Elementary Schools (3 hours)**

Effective teaching strategies, materials, and content of mathematics and science in elementary schools. Integration of basic content and effective strategies across the curriculum. Knowledge of NCTM standards. Emphasis on cultural diversity. Unit and less development; microteaching. Prerequisites: TEP I, EDU 318.

**EDU 414 Teaching Reading in Elementary Schools (3 hours)**

Research-based instructional strategies aligned with the Tennessee Curriculum Framework, International Reading Association (IRA) Standards and INTASC Standards. In-depth study of hierarchy of reading skills, including phonemic, syntactic, semantic and contextual analysis. Emphasis on teaching students with ethnic, cultural, and language diversity, students with exceptionalities, and students who are English Language Learners. Reading across the curriculum. Interdisciplinary theme unit and micro-teaching applications required. Prerequisites: TEP I, EDU 318. Co-requisite: EDU 417

**EDU 417\* Reading Diagnosis and Remediation (3 hours)**

Development and application of techniques in diagnosis and remediating reading problems in students of all ages. Familiarity with appropriate assessment instruments. Differentiated instructional strategies. Strategies for teaching students who are English language learners. Clinical practice with children who demonstrate deficiencies in reading skills. Prerequisite: TEP I, EDU 318. Co-requisite: EDU 414.

**EDU 444 Professional Student Teaching Semester (Elementary) (12 Hours)**

**EDU 445 Professional Student Teaching Semester (Secondary) (12 Hours)**

**EDU 446 Professional Student Teaching Semester (K-12) (12 Hours)**

Review and application of planning, effective teaching strategies, and evaluation techniques in student teaching practice. Processing of experiences and observations. Emphasis on media usage, K-12 curricular patterns, multicultural consideration, current issues. Minimum of 15 weeks in full-day classroom teaching in off-campus centers. No other course may be taken during the student teaching semester. Journal, documentary log, lesson plans, teaching materials, State of Tennessee Comprehensive Assessment. To be taken by candidates seeking licensure in K-6, 7-12, or K-12 programs. Prerequisite: Acceptance to the Teacher Education Program III. (Must achieve a grade of “C” or better to be eligible for graduation/teacher licensure.)

**EDU 450 Reading in the Secondary Content Area (3 hours)**

This course is designed to help prospective secondary educators in all content areas increase and enhance students’ learning from text. It is also designed to help secondary teachers recognize and compensate for the variety of reading levels in the classroom. Methods of intervention and assessment of reading for grades 6-12 will be explored and researched. Emphasis will be placed on the major content areas of math, science, social studies, English, and the related arts. The course will provide opportunity for students to analyze secondary textbooks as well as themed literature related to content areas. The major emphasis of the course will be on the practical application of reading in the classroom setting and because of the link between reading and writing attention will be paid to writing in the content area. Prerequisite: TEP I, EDU 318.

**EDU 490\* Special Topics (1-3 hours)**

A special course developed to afford learning experiences beyond courses in the curriculum. Topics for the course require approval of the Director of the College of Education.

**EDU 495\* Honors Project (4 hours)**

Open to seniors who have passed TEP I by invitation only.

**EDU 399, 499\* Individual Study (1-3 hours)**

In-depth study of a subject of interest beyond courses in the curriculum. Prerequisites: Junior standing, approval of advisor and Director of the College of Education, TEP I. \* Most Education courses numbered 400 or higher require approval of the Teacher Education Program Committee before admission to the curriculum. Consult advisor for exceptions.

*\*Most Education courses numbered 400 or higher require approval of the Co-Director of Education.*

## EXCEPTIONAL LEARNING & DEVELOPMENT

**ELD 314 Survey of Children with Exceptionalities (3 hours)**

An introductory study of emotional, learning, and behavioral characteristics of children with exceptionalities, including programs, services, legal requirements, and instructional techniques.

**ELD 422 Giftedness (3 hours)**

In depth study of the characteristics and needs of children with exceptional talents and abilities. Twice exceptional students. Identification process. Trends and issues. Prerequisite: ELD 314

**ELD 423 Mild Disabilities (3 hours)**

In depth study of the characteristics and needs of children with cognitive, emotional, behavioral and learning disorders, will address teaching in the content areas with strategies and techniques, and will cover comprehensive special education practices. Strong focus on dyslexia and evidence-based methodologies and programs to treat it. Prerequisite: ELD 314

**ELD 425 Curriculum and Instruction for Giftedness (3 hours)**

Designing effective curriculum and instruction across a variety of educational environments for students with exceptional abilities. In depth study of creativity. Prerequisite: ELD 314 ELD 427. Positive Behavior Intervention (3 hours) Systems for identifying behaviors that interfere with successful education. Referral, assessment, development and implementation of intervention plans. Social skills instruction, applied behavior analysis, family supports and medical referrals. Prerequisite: ELD 314

**ELD 428 Advanced Procedures (3 hours)**

This course is an in-depth study of the referral process into special education, instruction in the development of writing electronic IEP's, and the additional required documents that are a part of the special educator's repertoire. Entire referral to placement process, including conducting a case study. Prerequisite: ELD 314.

**ELD 430 Dyslexia (3 hours)**

This course will present an overview of dyslexia, identification process and instruments, and multiple interventions. Analysis of published programs and curricula will culminate with instruction in multi-sensory teaching strategies based on Orton-Gillingham method.

**ELD 431 Emotional and Behavioral Disorders (3 hours)**

Characteristics of an array of emotional and behavioral disorders; identification procedures; family supports and medical/therapeutic referrals for students with aberrant behavioral and/or emotional patterns.

**ELD 432 Elementary Reading and Math Interventions (3 hours)**

Instructional strategies and intervention techniques for working with elementary students with disabilities in inclusive classrooms and individualizing the general education curriculum. Focus on evidenced based practices. Prerequisites: EDL 314, EDU 318.

**ELD 433 Secondary Reading and Math Interventions (3 hours)**

Instructional strategies and intervention techniques for working with secondary students with disabilities in inclusive classrooms and individualizing the general education curriculum. Focus on evidenced based practices. Prerequisites: ELD 314, EDU 318.

**ELD 434 Social and Behavioral Interventions (3 hours)**

Study and practice in Functional Behavior Assessment and Behavioral Intervention Planning for individualized behavior problems in the PK-12 education setting using both a direct –service and consultation/collaboration model. Focus on assessment skills to produce data driven environmental modifications, pro-social replacement behaviors, consequence strategies, and home-school interventions. ELD 435. Secondary Methods for Exceptional Learners (3 hours) Curriculum planning, teaching, and evaluation practices for grades 6-12; emphasis on characteristics and needs of all secondary students, including students diverse in race/ethnicity, language, or special needs, through a variety of instructional methods in reading and mathematics. Prerequisite: ELD 314, EDU 318.

**ELD 436 Elementary Methods for Exceptional Learners (3 hours)**

Curriculum planning, teaching, and evaluation practices for grades K-8; emphasis on characteristics and needs of all elementary students, including students diverse in race/ethnicity, language, or special needs, through a variety of instructional methods in reading and mathematics. Prerequisite: ELD 314, EDU 318.

**ELD 437 Procedural Law (3 hours)**

Historical development of special education in the United States through legislation and litigation. Emphasis placed on implementation of key legislative aspects in public school settings, teacher responsibilities to students/ parents. Development of skills in writing IEPs and other required documents for special educators. Referral to placement process. Individual assessments. Prerequisite: ELD 314

**ELD 438 Differentiated Instruction (3 hours)**

Curriculum and performance modification with environmental and organizational accommodations for accessing and progressing in the general education curriculum, K-12. Effective consultation and collaboration. Use of assistive technologies and universal design. Prerequisites: ELD 314

**ELD 439 Introduction to Sign Language (3 hours)**

Introduction to sign language with an emphasis on American Sign Language. Different forms of sign used currently in the United States, exposure to basic ASL vocabulary, grammar, fingerspelling, numbers, terminology, and cultural information related to the deaf community. In-class discussions, demonstrations, videos, course readings and final production.

**ELD 443 Professional Student Teaching Semester (K-12) (12 hours)**

Review and application of planning, effective teaching strategies, and evaluation techniques in student teaching practice. Processing of experiences and observations. Emphasis on media usage, K-12 curricular patterns, multicultural consideration, current issues. Minimum of 15 weeks in full-day classroom teaching in off-campus centers. No other course may be taken during the student teaching semester. Journal, documentary log, lesson plans, teaching materials, State of Tennessee Comprehensive Assessment. To be taken by candidates seeking licensure in K-12 programs. Prerequisite: Acceptance to the Teacher Education Program III. (Must achieve a grade of "C" or better to be eligible for graduation/teacher licensure.)

**ELD 490 Special Topics (1-3 hours)**

A special course developed to afford learning experiences beyond courses in the curriculum. Topics for the course require approval of the Director of the College of Education. ELD 499. Individual Study (1-3 hours) In-depth study of a subject of interest beyond courses in the curriculum. Prerequisites: Junior standing, approval of advisor and Director of College of Education.

## ENGLISH

**ENG 010 Writing Basics (3 hours)**

Pre-threshold course in writing. Basics of sentence structure and paragraph composition with emphasis on skill development. Focus on writing sentences and personal experience paragraphs. A grade of C or better is required before proceeding to ENG 101. Hours completed do not count toward graduation requirement.

**ENG 015/016 ESL Skills Workshop I, II (3 hours)**

Provides instruction on the basic ESL skills of reading, writing, speaking, and listening. Vocabulary building and cultural issues also are addressed. Prerequisite: TOEFL score of 99 or below on file or permission of instructor. ENG 016 is not required for students obtaining a grade of A or B in ENG 015.

**ENG 016 ESL Skills Workshop II (3 hours)**

Provides instruction on the basic ESL skills of reading, writing, speaking, and listening. Vocabulary building and cultural issues also are addressed. Prerequisite: TOEFL score of 99 or below on file or permission of instructor.

**ENG 101 Expository Writing (3 hours)**

Threshold course in writing. Pre-writing, writing, and revising paragraphs, essays, and documented papers. Reading, discussing, and analyzing rhetorical models. A grade of C or better is required before proceeding to the next required ENG course. Prerequisites: A grade of C or better in ENG 010 or a minimum ACT sub score of 18 in English or permission of the instructor.

**ENG 101a English Composition I (3 hours)**

Threshold course in writing. Pre-writing, writing, and revising paragraphs, essays, and documented papers. Reading, discussing, and analyzing rhetorical models. A grade of C or better is required before proceeding to ENG 1020.

**ENG 1011 Composition I (3 hours)**

The course introduces students to the fundamentals of written discourse. It focuses on developing writing skills emphasizing organization, usage, grammar, gathering of information and expository essays. Students cannot receive credit for both ENG 103 and ENG 1010. A grade of "C" or better is required.

**ENG 102 English Composition II (3 hours)**

This course continues English Composition I by extending students' skills in communicating the results of research and analysis across a variety of disciplines. Students will develop a documented essay and longer research paper. The course emphasizes critical thinking, critical reading and the writing process.

**ENG 1021 Composition II (3 hours)**

This course is a continuation of ENG 1011. It focuses on more advanced persuasive and literary based critical and evaluative skills in English composition. Students cannot receive credit for both ENG 113 and ENG 1021.

**ENG 103 English I (3 hours)**

Development of the student's writing skills through a process of thinking, researching, planning, writing, reviewing, revising, and editing expository essays. Students cannot receive credit for both ENG 103 and ENG 1010. A grade of "C" or higher is required.

**ENG 111 Writing about Literature (3 hours)**

Reading, analyzing, and writing about a variety of literary genres including poetry, drama, the short story, and the novel. Research paper required. Prerequisite: ENG 101 or exemption.

**ENG 113 English II (3 hours)**

An introduction to more advanced techniques of composition through the study of literature. The analysis of literature serves as topics for discussion, study, and writing. Students cannot receive credit for both ENG 113 and ENG 1020.

**ENG 131A-431A Bethel Beacon (1 hour)**

Reporting, writing, editing, and layout work for the “Bethel Beacon” newspaper. May be repeated for credit. Pass/Fail grade only. Class standing at enrollment determines level.

**ENG 201 Western Literature and the Arts I (3 hours)**

Team-taught introduction to the elements of literature, painting, and music through lectures and workshops, followed by a survey of these arts in the Classical and Medieval periods of Western history, with attention to the philosophical climate of each period. Prerequisite: ENG 111.

**ENG 202 Western Literature and the Arts II (3 hours)**

Team-taught historic survey of arts of the Renaissance, Baroque, Neoclassic, Romantic, Realistic, and Modern periods, including literature, painting, sculpture, music, and film, presented as interrelated manifestations of human creativity. Prerequisite: ENG 111.

**ENG 301 The English Language (3 hours)**

Origin, development, and current status of the English language, including phonology, morphology, etymology, semantics, and structural & transformational grammar. Emphasis upon the history of the language, dialects, sentence structure, and standard usage. Prerequisite: HON 201 or ENG 201 or ENG 202.

**ENG 305 Child and Adolescent Literature (3 hours)**

Survey and analysis of nursery rhymes, contemporary children’s books, adolescent literature, and cross-cultural works. Study of oral interpretation and illustration. Prerequisite: HON 201 or ENG 201 or ENG 202.

**ENG 311 American Literature I (3 hours)**

Analysis of the major literary movements, authors, and genres that shaped American literature from its beginnings to 1865. Includes Colonial, Revolutionary, and Romantic periods. Prerequisite: HON 201 or ENG 201 or Eng 202.

**ENG 312 American Literature II (3 hours)**

Analysis of the major literary movements, authors, and genres that shaped American literature from 1865 to 1945. Includes Realist, Naturalist, Regionalist, and Modernist periods. Prerequisite: HON 201 or ENG 201 or ENG 202.

**ENG 313: American Literature III (3 hours)**

Analysis of the major literary movements, authors, and genres that shaped American literature from 1945 to the present. Includes the study of postmodernist, contemporary, and ethnic literature. Prerequisite: HON 201 or ENG 201 or ENG 202.

**ENG 315 Playwriting (3 hours)**

Instruction in storytelling skills for writers using script format. Topics include various script forms, the basic components of scripts, and their implementation into dramatic format. Prerequisites: SAT 116, ENG 101, ENG 111. Same as SAT 315.

**ENG 321 Shakespeare (3 hours)**

Major tragedies, comedies, and histories, as well as selected narrative poetry and sonnets. Prerequisite: HON 201 or ENG 201 or ENG 202.

**ENG 322 Introduction to Poetry (3 hours)**

Study of poetry as a literary genre with special attention to forms, techniques, and examples from the ancient to the contemporary. Prerequisite: ENG 201 or 202.

**ENG 324 Introduction to Fiction (3 hours)**

Study of prose fiction as a literary genre with special attention to forms, techniques, and examples from the classic to the contemporary. Prerequisite: ENG 201 or 202.

**ENG 330 Business and Technical Writing (3 hours)**

Basic writing skills applicable to business situations including proposals, feasibility studies, progress reports, statistical and research reports; technical descriptions, and manuals. Students who earn a grade of "C" or higher are exempt from COE 401. Prerequisite: HON 201 or ENG 201 or ENG 202. Same as BUS 330.

**ENG 334 Writing Non-Fiction (3 hours)**

Emphasizes revision and editing of non-fiction, especially in the personal essay, journalistic forms, and the book review. Freelance submission encouraged. Extensive use of computers both for editing and to facilitate peer response. Prerequisite: HON 201 or ENG 201 or ENG 202.

**ENG 337 Writing Fiction (3 hours)**

Writing instruction in the short story, using various models for generating, drafting, and revising prose fiction. Prerequisite: ENG 111 or permission of instructor.

**ENG 338 Writing Poetry (3 hours)**

Writing instruction in poetry using various models for generating, drafting, and revising original poems. Prerequisite: ENG 111 or permission of instructor.

**ENG 399, 499 Individual Study (1-3 hours)**

In-depth study of a subject of interest beyond courses in the curriculum.

**ENG 421 British Literature to 1700 (3 hours)**

Works of outstanding British writers before the eighteenth century. Chaucer, Spenser, Milton included. Prerequisite: HON 201 or ENG 201 or ENG 202.

**ENG 422 British Literature 1700-1830 (3 hours)**

Surveys Neo-Classical and Romantic periods including works by Pope, Swift, and the major Romantic poets. Prerequisite: HON 201 or ENG 201 or ENG 202.

**ENG 423 British Literature 1830-1901 (3 hours)**

Survey of the fiction, non-fiction, and poetry of the period with emphasis on major figures such as Dickens, Elliot, Hardy, Tennyson, Browning, and Carlyle. Prerequisite: HON 201 or ENG 201 or ENG 202.

**ENG 424 British Literature 1901 to Present (3 hours)**

Survey of the fiction, poetry, and drama of the period with emphasis on major figures such as Yeats, Woolf, Joyce, Thomas, and Beckett. Prerequisite: HON 201 or ENG 201 or ENG 202.



**ENG 460 Internship (1-12 hours)**

Approved work experience requiring good use of the English language. Prerequisites: 15 hours of English/writing courses, advisor approval, and junior standing. Group liability insurance required.

**ENG 470 Exploring the Plays of Shakespeare (3 hours)**

Emphasizes the role Shakespeare played in drama and world literature. The course covers five plays (two comedies, two tragedies, and a history play). Students will evaluate how Shakespeare's plays transcend time and culture and will examine universal themes that dominate his work. Students will examine how Shakespeare's work has been interpreted by literary critics, film directors, screenwriters, actors, and the viewing public.

**ENG 472 / 4720 Tennessee Williams (3 hours)**

Emphasizes the role Tennessee Williams' drama played in American literature, theater, and film. The course covers five of Williams' most successful plays. Students will explore several of Williams' themes and characters and will evaluate how Williams helped to shape not only American literature but Southern literature. Students will examine how Williams' work has been interpreted by literary critics, film directors, screenwriters, actors, and the viewing public.

**ENG 490 Special Topics (3 hours)**

Possible topics include film study, the novel, journalism or other advanced writing, ethnic/regional literature, foreign literatures in translation. Prerequisite: HON 201 or ENG 201 or ENG 202.

**ENG 495 Honors Project (4 hours)**

Open to seniors by invitation only.

**ENG 498 Senior Thesis (3 hours)**

Writing a thesis on a topic related to the major or minor. Must be approved by both the academic advisor and the major or minor professor who supervises the thesis. Prerequisites: the student must be a senior English major with at least a 3.0 GPA in the major (and minor if thesis is on a topic in the minor); approval of both the academic advisor and supervising professor.

## **EMERGENCY SERVICES MANAGEMENT**

**ESM 3000 Survey of Emergency Management (3 hours)**

This course provides an overview of current issues in emergency and disaster management.

**ESM 3100 Management of Terrorist Incidents (3 hours)**

This course will provide an in-depth review of terrorist response recommendations and practices as well as public policy overview.

**ESM 3200 Weapons of Mass Destruction (3 hours)**

This course will differentiate the modes and methods of weapons of mass destruction including chemical, biological, radiological and nuclear delivery systems.

**ESM 3300 Planning for Emergency and Disaster Management (3 hours)**

This course explores methods for preparing public safety personnel, agencies, organizations and communities for emergency and disaster response.

**ESM 3500 Terrorism in the Modern World (3 hours)**

This course incorporates risk analysis and threat assessments based on modern world terrorism and terroristic threat potential.

**ESM 3600 Cyber-security (3 hours)**

This course will explore cyber-security responsibilities, threats and breach responses.

**ESM 3700 Homeland Security Law and Public Policy (3 hours)**

This course will review homeland security law and public policy.

**ESM 3800 Natural Disaster Planning and Management (3 hours)**

This course applies appropriate preplanning practices for natural disaster response and management.

**ESM 3900 Risk Analysis and Threat Assessment (3 hours)**

This course provides a framework for risk analysis and threat assessment that may be applied to natural and manmade disasters.

**ESM 4100 Organizational Development in Emergency Management & Homeland Security Organizations (3 hours)**

This course explores the required hierarchy of management and command for organizational development of Emergency Services and Homeland Security Organizations.

**ESM 4200 Introduction to Science and Hazards (3 hours)**

Natural disasters occur every day and affect the lives of people all around the world. This course examines the scientific principles that explain Earth processes. Energy flowing from the interior of the Earth powers plate tectonics and is released as earthquakes and volcanoes. Energy flowing from the Sun provides external energy powering the hydrologic cycle, weather and climate. The pull of gravity helps drive weather systems as well as causing masses of rock and snow to flow downslope. This course helps one understand how the Earth works and how to live in harmony with its active processes.

**ESM 4300 Management of Human Resources in Public Safety Organizations (3 hours)**

This course provides the framework for human resources and administration of public safety organizations for effective leadership in emergency management.

**ESM 4400 Strategic Planning in Public Safety & Emergency Response Organizations (3 hours)**

This course will establish a framework for strategic planning based on fact based policies and procedures in emergency response to public safety issues.

**ESM 4500 Financial Management of Emergency Response Organizations (3 hours)**

This course will review basic fiscal responsibilities and requirements for effective management of emergency response organizations including grant acquisition, payroll, and liability and budget issues.

**ESM 4600 Leadership in Emergency Management Organizations (3 hours)**

This course will establish the hierarchy of effective leadership roles and responsibilities for effective management of emergency services organizations to include ethical and legal responsibilities.

## GRAPHICS

### **GRA 112 Engineering Graphics (3 hours)**

This course introduces students to engineering graphics. It starts with a brief review of geometry and trigonometry. The following engineering graphics topics; orthographic projections, section drawings auxiliary projection, dimensioning, isometric drawings, and assembly drawings are presented using a computer aided design (CAD) package used by practicing engineers. The class and laboratory meet weekly for a total of 6 hours. Same as CSC 112

### **GRA 211 Computer Assisted Design (3 hours)**

This course is a continuation and amplification of CSC/GRA 112. It includes topics in descriptive geometry involving points, lines, and planes by use of the auxiliary view method. The class and lab meet weekly for a total of four hours. Laboratory. Prerequisite: CSC/GRA 112. Same as CSC 211.

## HEALTH

### **HEA 1020 – HEALTH & WELLNESS (3 hours)**

This course focuses on modern knowledge and developments in personal health, which reflect fundamental biological facts and the psychological aspects of human behavior as they affect the health conduct of the individual. Emphasis is placed on one's self-responsibility for wellness in regard to areas such as stress, disease, sexuality, alcohol, and drugs.

### **HEA 113 Drug Education (3 hours)**

Physiochemical effects of drugs and alcohol on the nervous system; use and abuse; habilitation and addiction. Social, economic, and legal aspects of drug and alcohol use are compared and contrasted. This course may substitute for HUS 203 but may not be taken for credit in addition to HUS 203.

### **HEA 201 Personal Health (3 hours)**

Modern knowledge and developments in personal health which reflect fundamental biological facts and the psychological aspects of human behavior as they affect the health conduct of the individual. Emphasis is placed on one's self-responsibility for wellness in regard to areas such as stress, disease, sexuality, alcohol, and drugs.

### **HEA 2020 Personal Fitness and Wellness (3 hours)**

An emphasis is placed on the factors that influence health and wellness, particularly individual behaviors. Students will learn strategies that improve lifetime health and wellness.

### **HEA 211 Nutrition (3 hours)**

Basic foundation concerning the combination of processes involved in food intake and utilization in relation to functional maintenance, growth, and renewal of body functions and exercise.

### **HEA 310 Stress Management (3 hours)**

A study of stress and other related health topics and their effects upon human behavior. Examines stress, its effects, and how to deal with it from a conceptual and application basis. Related topics include job-related stress and burnout, smoking, obesity, hypertension, headaches, insomnia, type-A behavior, gastrointestinal disorders, cancer, and diabetes.

**HEA 312 First Aid, Responding to Emergencies (2 hours)**

Provides the citizen responder with the knowledge and skills necessary to help sustain life, reduce pain, and minimize the consequences of injury or sudden illness until professional help arrives. Meets the requirements for American Red Cross Certification and Adult CPR.

**HEA 314 The School Health Program (3 hours)**

School health curriculum. Health agencies, service standards, regulations, trends, and issues which influence school health policies. Recognizing and dealing with emotional distress, physical and sexual abuse, communicable diseases, and substance abuse. Appropriate health appraisal procedures and referrals. Safety in disaster and medical procedures for students who are medically fragile. Pupil, parent, teacher, and administrative responsibilities in making student health need a cooperative enterprise.

**HEA 316 Positive Psychology (3 hours)**

A scientific study of the promotion of psychological well-being. Topics will include: happiness, strengths and virtues, coping, resilience, intrinsic motivation, flow, spirituality and religiosity, interventions for well-being, psychoneuroimmunology, optimism, creativity, wisdom, and authenticity. Personal application exercises are required. Same as PSY 316. Prerequisite: PSY 111.

**HEA 320 Human Anatomy (3 hours)**

This course will focus on the structure of the systems of the human body, emphasizing those systems with direct and major roles in exercise performance, namely the muscular, skeletal, nervous, endocrine, cardiovascular, and respiratory systems. Same as PED 320. Prerequisite: BIO 200.

**HEA 330 Prevention and Care of Athletic Injuries (3 hours)**

This course will develop a basic understanding of the prevention, recognition, immediate care, and referral of common athletic injuries and illnesses in sports and physical activity. Students will be introduced to basic taping techniques for the ankle, wrist, and hand.

**HEA 399, 499 Individual Study (1-3 hours)**

In-depth study of a subject of interest beyond courses in the curriculum. Prerequisite: Junior standing, approval of advisor and Academic Dean.

**HEA 460 Internship (1-12 hours)**

Approved work experience in a health environment. Prerequisite: Consent of advisor and Academic Dean. Group health insurance required.

**HEA 490 Special Topics (1-3 hours)**

A special course developed to afford learning experiences beyond courses in the curriculum. Topics for the course require approval of the Academic Dean.

**HEA 495 Honors Project (4 hours)**

Open to seniors by invitation only.

## HEALTH SCIENCE

### **HSC 212 Nutrition for Health Care Providers (3 hours)**

An introduction to nutritional foundations, spanning the duration of the life cycle in regards to prevention, maintenance and enhancement of health according to an individual's health, age and activity level in a variety of healthcare setting. This course is designed for the future healthcare professional with an emphasis on applying evidence based nutrition recommendations and guidelines to promote optimal health, prevent disease and treat health-related conditions.

### **HSC 216 Medical Terminology for Health Care Providers (3 hours)**

Utilizing a systems-based approach students will gain an understanding of basic elements, rules of building and analyzing medical terms associated with the body as a whole. Students will define, interpret and pronounce medical terms relating to structure, function, pathology, diagnosis, clinical procedures and pharmacology. Students will be able to recognize, spell, pronounce, and define medical words by combining prefixes, suffixes, and work roots as well as become familiar with common abbreviations used in medicine.

### **HSC 230 Emergency Care in Sport & Physical Activity (3 hours)**

This course consists of lecture and lab-based instruction to give students in health care professions a thorough knowledge of basic first aid, basic life support (e.g., rescue breathing, CPR and AED use), airway management, oxygen supplementation, recognition and management of emergency and acute injuries and illnesses that occur in sport and physical activity. Upon successful completion of this course, students can potentially obtain certifications in blood borne pathogens training, basic first aid, CPR and AED for professional rescuers and healthcare providers, and administering emergency oxygen.

### **HSC 381 Introduction to Research for Evidence-Based Practice (3 hours)**

Prerequisite: MTH 202 and Admission into the AT or NUR program. This interdisciplinary course provides an overview of the principles and methods of organizing, conducting, and interpreting qualitative and quantitative research. To establish evidence-based practices, students will learn to think critically about scientific research and statistical reasoning, formulate answerable questions, search databases, and evaluate the validity of claims made as they develop professionally as consumers of research.

### **HSC 421 Exercise Testing and Prescription (3 hours)**

Prerequisites - HEA 211 or HSC 212, PED 320 or BIO 309, PED 321, 322. This course consists of lecture and lab-based instruction where various techniques are taught and utilized to evaluate an individual's fitness level. Emphasis will be placed on exercise safety precautions for developing lifetime health and fitness habits, proper lifting techniques, and the scientific basis of recommending exercise programs. Concepts of exercise testing and prescription will follow the guidelines of the National Council of Strength & Fitness (NCSF), and upon successful completion of this course, students should be prepared to take the NCSF personal trainer certification exam.

## HEALTHCARE MANAGEMENT

### **HM 4501 Healthcare Management (3 hours)**

This course explores fundamental concepts of management theory as it applies to the health care setting. Students will examine the organizational structure of the health care delivery system and review administrative processes such as planning, problem solving, decision making, quality management, change management and organizational strategy. Students will relate these concepts to the overall management of the healthcare organization.

**HM 4510 Financing in Healthcare (3 hours)**

This course provides an in depth look at accounting principles as they apply to the health care environment. Topics include: the use of accounting and financial planning in healthcare organizations, planning and control, sources of revenue, financial decision making using quantitative techniques, and general financial planning for healthcare organizations. An overview of financial statements, reporting, ratios, and budgeting for health care organizations will be presented.

**HM 4521 Healthcare Information Management (3 hours)**

This course presents the practical use of technology in healthcare organizations and the role they fill in today's modern healthcare system. The course helps students identify the most common uses of technology in the health care environment, the processes used in the selection of technology, the application of technology to the health system, and the evaluation of technology. An overview of the role of Healthcare Information Management in health care organizations, and the use of Electronic Medical Records is presented. The role of information technology workers will be explored as it pertains to the security and privacy of healthcare information.

**HM 4530 Overview of Healthcare Policy in the U.S. (3 hours)**

The emphasis of this course is the role of government in health care policy, the US health care system, costs of healthcare, and an analysis of the ethical and business implications of social welfare. Throughout the course, students will review the current trends in the delivery of healthcare and the economic and social issues associated with efforts to revise the system. Students will develop an understanding of the political, economic and social issues affecting health care organizations.

**HM 4540 Managing Human Resources in Healthcare (3 hours)**

This course gives the student an understanding of issues that impact human resource management in health care organizations. Topics include: physician and labor relations, recruitment and retention of professional staff and physicians, staff development, malpractice concerns, and Federal, state, and employee regulatory requirements specific to healthcare will be emphasized. Students will review quality management tools used to ensure integration of organizational strategy and continuous process improvement programs.

**HM 4550 Healthcare Leadership (3 hours)**

This course describes the critical knowledge and skills needed to be an effective leader in today's complex healthcare environment. Sessions cover conflict resolution, leadership and negotiation skills, strategic planning, and ethics.

**HM 4561 Strategic Planning and Execution In Healthcare (3 hours)**

Strategic Planning and Execution in Healthcare builds upon the skills learned in OL 4240 - Strategic Management. Students will identify and analyze the development of quality systems and execution of organizational strategies in a healthcare setting. Students will learn how quality management and strategic planning tools can be used to ensure the success of organizational strategy and continuous process improvement programs. Students will develop skills in identifying organizational barriers, developing action and prioritization plans, decision-making and change management, and the basics of how to implement and execute strategic plans in a healthcare setting. Prerequisite: HM 4551.

## HISTORY

### **HIS 201 Human Culture I (3 hours)**

World societies to 1500; nature of culture, origins of civilization, development and decline of civilizations, origins of the modern world.

### **HIS 2000 U.S. History I (3 hours)**

Surveys the factors that contributed to the development of the United States as a new nation. It examines the major people, events, institutions, ideas, and conflicts that shaped the nation from the earliest contacts between Europeans and indigenous populations to 1860.

### **HIS 2025 Early U.S. History (3 hours)**

Student review of U.S. history from early exploration and colonization activities to colonial customs and institutions, the colonial wars, friction with England, the war for independence, the Constitutional Convention, War of 1812, new nationalism, Jacksonian democracy, expansionism and Manifest Destiny, and ending with the Civil War.

### **HIS 205 Africa and the Americas (3 hours)**

This course investigates Africa pre-contact, the development of slavery in the Caribbean, United States, South America, and Central America as well as its lasting impact into the 20th century on both Africa and the places where enslaved Africans were transplanted.

### **HIS 208 US History: From the Colonies to 1860 (3 hours)**

This course explores the beginning of the United States of America, focusing on major political, cultural, and social trends.

### **HIS 209 US History: From 1860 to Present (3 hours)**

Surveys the development of the United States from the Civil War to present. It examines the major ideas, people, events, and institutions that have shaped the United States since 1860.

### **HIS 210 The United States Experience (3 hours)**

This course is a comprehensive examination of American history from colonial settlements through the present day. Within this broad spectrum, students will learn the historical context for the Revolution and Constitution, the rise of market and middle-class culture, the background of the Civil War, the industrial era, war and depression in the 20th century, the Cold War, and American social and cultural changes from the 1950's to the 1970's.

### **HIS 2100 U.S. History II (3 hours)**

A look at the U.S. from Reconstruction through industrialism, the Populist Revolt, the Spanish-American War, the Progressive era, World War I, prosperity and depression, the New Deal, World War II, and post-World War II era to the present.

### **HIS 211 History of the United States I (3 hours)**

Survey of United States history to 1860; Colonial origins, colonial development, independence and revolution, evolution of American democracy and the seeds of disunion.



**HIS 212 History of the United States II (3 hours)**

Survey of United States history since 1860: Civil War and Reconstruction, emergence of the U.S. as a world power, the quest for social and economic justice, economic growth and problems, the dilemma of leadership.

**HIS 215 Europe and the World (3 hours)**

This course offers a survey of important themes and events in European and world history since the eighteenth century including: the modernization of Europe, the growth of European hegemony, patterns of uneven modernization in the non-Western world, the causes and impact of the First and Second World Wars, the Cold War in both Europe and the non-Western world, problems and developments in contemporary Europe, problems and developments in the contemporary non-Western world.

**HIS 300 Historical Methods and Theory (3 hours)**

This course introduces students to the study of history. The course focuses on analyzing sources, interpretive reading, the historical research process, and the study of historiography.

**HIS 310/3100 World History: Post 1945 (3 hours)**

This course considers the history of the world since 1945. Topics to be explained include, but are not limited to, the Cold War, the end of colonial empires, the rise of Islamic nationalism and fundamentalism, the creation and growth of the European Union, the United States as a superpower, the rise of China, and the fall of the Soviet Empire.

**HIS 315 America in the Gilded Age and Progressive Era (3 hours)**

This course explores the Gilded Age and Progressive Era in American history from around 1880-1920. The course addresses American immigration, industrialism, the development of the West, race relations, and America's new international presence.

**HIS 330 America in the 1960's: The Age of Rebellion (3 hours)**

This course is a comprehensive look at the 1960's as the decade of rebellion against mainstream American culture and the social exclusion of people based on class, race, and gender. Topics will include: the Civil Rights Movement, the women's movement, political turmoil, forms of rebellion against middle-class norms, and the upheaval created by the American involvement in Vietnam. Prerequisite: One 200 level history course with a grade of "C" or above.

**HIS 331 Vietnam: America's Longest War (3 hours)**

This course is a comprehensive look at the Vietnam conflict. The class will evaluate the context and justification for American involvement in Vietnam and, more importantly, investigate how the war became both a Cold War stalemate and domestic controversy. Topics within the class will include: the erosion of American support, the growth of the anti-war movement, the military experience of soldiers, the civilian hardships of the war, and the American withdrawal.

**HIS 351 Old South and Sectionalism (3 hours)**

This course is a comprehensive look at the Old South as a distinctive region and the sectional controversy between North and South. Within these general topics, more focused topics will include: the establishment of planter elites; the growth of slavery as a labor system and its social and cultural nuances within the Old South context; the growth and ideology of the antislavery and abolitionism communities; and the arguments for and eventual secession.

**HIS 355 The Civil War and Reconstruction (3 hours)**

This class will analyze the process of secession which culminated in the nation's bloodiest war and end with the mingling of home and hatred during Reconstruction. Within these subjects, more focused attention is given to the various aspects of the Civil War: death on a mass scale; the soldier and civilian experience; the reality of war; the horrors of prison camps; and the eventual Southern surrender. In similar fashion, various aspects of the Reconstruction era will be examined; the politics of Reconstruction with Lincoln's death and the Radical's seizure of authority; and the social experiences in the New South with the Redeemers and the establishment and solidarity behind Jim Crow. Prerequisite: 3 hours HIS 200 or above with a grade of C or higher.

**HIS 370 African American History Survey (3 hours)**

This course introduces students to the narrative of African American history beginning with the African slave trade and tracing the African American experience to the present day. The class deals with such topics as the making of American slavery, African American resistance, African American participation in American armed conflicts, and African American art and culture. Prerequisite: One 200-level history course with a grade of "C" or above.

**HIS 380 Caribbean History Survey (3 hours)**

This course introduces students to the historical narrative of the Caribbean. The course explores the British Caribbean, Spanish Caribbean, and French Caribbean as well as relations between colonial powers and the Caribs that made these islands their homes before European arrival. The course spans from European contact through the twentieth century. Prerequisite: One 200-level history course with a grade of "C" or above.

**HIS 385 Gender and Genocide in the 20th Century (3 hours)**

This course employs gender as a tool of analysis to explore the processes, lived experiences, implications of, and responses to genocide in Europe, Asia, and Africa in the twentieth century.

**HIS 392 War and Conflict in 20th Century Europe (3 hours)**

This course examines major European armed conflicts in the 20th century to gain a greater understanding of their causes and worldwide implications.

**HIS 399, 499 Individual Study (1-3 hours)**

In-depth study of a subject of interest beyond courses in the curriculum. Prerequisite: Junior standing, approval of advisor and Academic Dean.

**HIS 422 Early American Republic 1790-1850 (3 hours)**

This course examines the history of America from approximately 1790 to 1850. Early republic topics will include: the ideology of the American political systems and cultures; the Age of Jefferson and the Age of Jackson in political terms; the rise of the market revolution; western expansion; the emergence of a "middle" and "working" class culture; and the origins of the sectional debate. Prerequisite: HIS 210 with a grade of C or higher.

**HIS 435 History of the American City (3 hours)**

This course explores the history of the American city by utilizing one city per course offering as a case study. Students will examine the historical events of the city, examine its perception from both an insider and outsider's perspective, become familiar with its geography, and produce a project engaging with the history of the case study. Prerequisite: 3 hours 200 level HIS with a grade of C or higher.

**HIS 442 Women and Gender in America (3 hours)**

This course explores how women and men have constructed their identities, work, politics, and personal relationships around time and place based notions about femininity and masculinity. Students will also examine how established and shifting gender identities and definitions have worked to help shape attitudes, ideas, and actions in American's past.

**HIS 4500 History of African-Americans I (3 hours)**

An historical survey of the varieties of experience that have shaped African American life. Specific topics will include the African roots of African American culture; slave trade and the Middle Passage; slavery, resistance and the struggle for emancipation; Reconstruction and Jim Crow; the growth of distinctive African American cultures in literature, music, sports, and the arts; the struggle for equality; and contemporary African American culture.

**HIS 4510 Fact or Fiction (3 hours)**

A study of scientific topics and social concerns today and in history, this course examines our assumptions about the natural world and our place in it. It will take a close look at the science and history behind some of the most contentious topics we face, including evolution, epidemic disease, genetic engineering, and environmental change. Learners will be asked to use this information in order to evaluate claims made in the popular media about how we, as a society, navigate the competing claims of morality, government, and the common good. (The interdisciplinary nature of this course allows it to satisfy Common Core requirements in Social Science or Math/Science.) Same as HUM 4510

**HIS 452 American Environmental History (3 hours)**

This course is an introduction to the study of environmental history. Environmental history studies the changing relationship between the natural world and human culture across time. The course will examine the varied ways Americans have interacted with their natural environment in various locales and times throughout history. It will also explore how the natural world has affected the patterns of human society, hindering or enabling settlement, development, and expansion. Themes include: the interconnectedness of people and nature, ecological and social health of communities and the nation, and how humans have found ways to understand the physical world through cultural expressions.

**HIS 460 Internship (1-12 hours)**

Approved work experience in an environment which uses skills and knowledge of a liberal arts education.  
Prerequisites: Consent of advisor, senior standing.

**HIS 470 Africa in the 20th Century (3 hours)**

This course explores the history of Africa in the 20th century focusing on Africa's role in the world, the impact of European colonization, and popular portrayals of Africa in the media. Students will read widely on the region and explore primary source materials throughout the course. Prerequisite: 3 hours 200 level History with a grade of C or above.

**HIS 480 History of the European Home Front in the 20th Century (3 hours)**

This course focuses on the European experiences of World Wars I and II by investigating the ways that the wars shaped, altered, and impacted the lives of those who did not fight.

**HIS 485 Ethnic Minorities in 19th and 20th Centuries Europe (3 hours)**

This course addresses what it means to be a minority in Europe. Focusing on the nineteenth and twentieth centuries, this course examines themes of citizenship, religious and ethnic rights, and movements toward legal equality, racism, ethnic cleansing, immigration policies, and the ideas of secularism, diversity, and multiculturalism.

**HIS 490 Special Topics (1-3 hours)**

A special course developed to afford learning experiences beyond courses in the curriculum. Topics for the course require approval of the Academic Dean.

**HIS 495 Honors Project (4 hours)**

Open to seniors by invitation only.

**HIS 497 Senior Thesis Research Seminar (3 hours)**

This course aids in laying the foundation for the Senior Thesis by requiring students to choose a historical topic, produce a proposal, and master a field of secondary literature related to their Senior Thesis. Students will also examine readings related to the joys and challenges of historical research along the way. Prerequisite: A minimum of 12 hours HIS numbered 300 or above with a C average or above.

**HIS 498 Senior Thesis (3 hours)**

The student will investigate and report a topic emphasizing the use of original sources. Prerequisite: Senior standing, social science major with emphasis in History.

## HONORS

**HON 101 Honors Colloquium I (4 hours)**

Students will be introduced to Western and non-Western Civilization through the study of history, literature, philosophy, religion, and art. This course is the first in the four-semester sequence of Honors Colloquia designed to satisfy the history and English components of the Common Core. This course specifically satisfies the Common Core requirement of COE 101 and HIS 215. Any student earning a grade of “D” or “F” in HON 101 may repeat the course one time.

**HON 102 Honors Colloquium II (4 hours)**

Students will be introduced to the history, literature, religion, and philosophy of the United States of America through the study of primary and secondary sources. This course is the second in the four-semester sequence of Honors Colloquia designed to satisfy the history and English components of the Common Core. This course specifically satisfies the Common Core requirement of HIS 210. Any student earning a “D” or “F” in HON 102 may repeat the course one time. Prerequisite: HON 101.

**HON 201 Honors Colloquium III (4 hours)**

Honor students will continue their humanistic studies with a topical course in various themes and modes of Literature. This course is the third in the four-semester sequence of Honors Colloquia designed to satisfy the history and English components of the Common Core. Prerequisite: HON 102.

**HON 202 Honors Colloquium IV (4 hours)**

Honor students will conclude their colloquia with the study of a variety of forms of individual and collective expression. This course is the fourth in the four-semester sequence of Honors Colloquia designed to satisfy the history and English components of the Common Core. Prerequisite: HON 201.

**HON 391 Honors Mentoring Project (1 hour)**

The goal of this course is to create a service learning project for Honors Program students which will increase community engagement and provide avenues for personal development. A service learning project is designed to meet a community need while also providing an opportunity for a significant learning experience to occur. Credit is awarded on a pass/fail basis. May not be repeated for credit. Prerequisites: HON 102 and permission of the Honors Program Director. Orientation and background screening may also be required.

**HON 395 Honors Research Prep Seminar (1 hour)**

This course prepares Honors Program students for their Honors Research Project by requiring each student to submit a research proposal that will be undertaken during the senior year. Honors program students must take this course in the spring semester of their junior year. Prerequisite: HON 202.

**HON 399, 499 Individual Study (1 hour)**

The Honors Program Individual Study is designed to enrich the content of a junior or senior level course in which the student is enrolled. Each Individual Study will satisfy one Honors Program Special Topics requirement. Using a standard contract available from the Honors Program Director, the student and the faculty member will agree upon additional work worth one credit hour that supplements the course in which the student is enrolled. All contracts must be completed within the first week of classes and are subject to approval by the Honors Program Director. May be repeated for credit. Prerequisites: HON 101, 102.

**HON 490 Honors Special Topics (1 hour)**

Honors seminars will expose students to topics in a variety of disciplines. With the instruction of specialized faculty, students will be encouraged to use their analytical skills to solve problems in the natural and social sciences, business, and the humanities. May be repeated for credit. Prerequisite: HON 202.

**HON 495 Honors Project (4 hours)**

Students must have the approval of the faculty advisor in the appropriate discipline and the Honors Program Director before enrollment in this course. Prerequisite: HON 395.

## HUMAN SERVICES

**HUS 203 Alcohol, Drugs and Society (3 hours)**

This course is designed to explore various aspects of alcohol and other drug use and abuse including: individual and societal interventions, social, familial, and individual influences and consequences, interfaces of use and criminal justice system, and basic mechanisms of substance action. This course may substitute for HEA 113 but may not be taken for credit in addition to HEA 113. Prerequisite: PSY 111 or SOC 111 or permission of instructor.

**HUS 213 Social Issues in the Community and World (3 hours)**

An opportunity to critically examine a variety of current social issues facing the individual, the community, and the world. Causes, development, and particular emphasis on alternative/policy solutions. Same as SOC 213.

**HUS 216 Introduction to Human Services (3 hours)**

Preparing future professional service providers and managers with the philosophy, values, languages, history, problems, and broad scope of the human service field. Exposure to various human service agencies and current polices presented to provide an understanding of human behavior and the social environment, community resources, and process of human services. Prerequisite: SOC 111.

**HUS 320 Race/Ethnic Relations (3 hours)**

Sociological study featuring ethnological characteristics and intergroup relationships of the dominant and subordinate ethnic groups that form American communities. Urban and rural communities examined as social systems with specific functions and interaction dynamics. Prerequisite: SOC 111. Same as SOC 320.

**HUS 323 Legal and Ethical Issues (3 hours)**

This course is designed to prepare students for the application of ethical and legal practice to the human services field. It will provide the learner with the opportunity to explore their personal values in relation to ethical and legal expectations, thoroughly understand ethical and legal standards of the profession, and apply their knowledge to presented ethical dilemmas.

**HUS 330 Research Methods (3 hours)**

Introduction and examination of the strategies and methods of social science inquiry. Presented will be: problem formation and hypothesis research design, data collection, basic analysis and interpretation, reporting, and utilization of research and ethics. Experience in designing and conducting research projects. Prerequisites/Co-requisites: PSY 111, MTH 111, and MTH 202 or PSY 313.

**HUS 331 Practice Intervention (3 hours)**

Exposure to various human service professionals, agencies, and client populations through experiential field learning opportunities. Presents knowledge base of the roles, tasks, and methods of human service professionals. Included will be assessing, planning, interviewing, and recording techniques. Explores worker-client relationships, the helping process, and allows students to develop practical methods of application for administration and direct client care. Prerequisites: HUS 216, junior class standing.

**HUS 399, 499 Individual Study (1-3 hours)**

In-depth study of a subject of interest beyond courses in the curriculum. Prerequisite: Junior standing, approval of advisor and Academic Dean.

**HUS 418 Administration, Policy, and Advocacy (3 hours)**

This course is designed to prepare the learner with fundamental knowledge and competencies to be successful in managerial and administrative roles in the human service profession. Additionally, topics and skills related to program and policy development and community and individual advocacy will be explored and developed.

**HUS 420 Human Behavior in Social Environment (3 hours)**

Exploration of how individuals are influenced by the social environment. The formation of behavior of individuals, interpersonal relationships, and groups observed for the purpose of developing the ability to explain and analyze social systems. Opportunity to integrate and apply knowledge to the human service practices. Topics to include: social perception, interaction, influence, and application. Prerequisites: SOC 111, PSY 111, 211. Same as PSY 420.

**HUS 424 Interventions with Children and Families (3 hours)**

This course is designed to prepare students to understand, assess, and assist children and families. This course will provide students with an in-depth analysis of families, family dynamics, the family life cycle, and particularly, the roles and development of children within the family system. Specific interventions to address and enhance family and family member functioning will be addressed along with methods that help ameliorate the special challenges that families may encounter.

**HUS 426 Delivery to Targeted Populations (3 hours)**

This course is designed to prepare students to understand, assess, and provide services to a variety of client populations including individuals with substance use/abuse/dependence and/or major mental illness. It will focus on various methods of assessment, intervention, and access to appropriate support systems and resources to assist targeted client populations.

**HUS 428 Victimology (3 hours)**

Theories and history shaping the bio-psycho-social environmental characteristics of crime and violent victimization are examined with emphasis on their intersection with issues of race, gender, class, ethnicity, and sexual orientation. Same as CJS 428.

**HUS 460 Internship (1-12 hours)**

The capstone experience for human service majors in which student is placed in an agency, company, organization, or legislative setting which provides an opportunity to assume a professional role to build skills and expand expertise.

**HUS 490 Special Topics (1-3 hours)**

A special course developed to afford learning experiences beyond courses in the curriculum. Topics for the course require approval of the Academic Dean.

**HUS 495 Honors Project (3 hours)**

Open to seniors by invitation only. In-depth study of a subject of interest beyond courses in the curriculum. Prerequisites: Junior standing, approval of advisor and Academic Dean.

**HUS 299, 399, 499 Individual Study (1-3 hours)**

In-depth study of a subject of interest beyond courses in the curriculum. Requires approval of the instructor, advisor, and Academic Dean.

## HUMANITIES

**HUM 1000 Introduction to Humanities (3 hours)**

This course is an introduction to the humanities through an examination of how societies express themselves through literature, art, music, philosophy and technology.

**HUM 101 Mark Twain (3 hours)**

Emphasizes the role Mark Twain played in American literature. The course covers four of Twain's novels and a short story. Students will evaluate Twain's role as a spokesman on issues of American life and how he can be viewed as being more than just a humorist by evaluating themes which dominate his works. Students will examine how Twain's work has been interpreted by literary critics, film directors, screenwriters, actors, and the viewing public.



**HUM 102 - 20th Century American Drama (3 hours)**

Emphasizes how Thornton Wilder, Eugene O’Neill, Arthur Miller, Lillian Hellman, and Edward Albee helped to shape the 20th century American theater. The course will cover one play by each of these authors. Students will evaluate how these plays are a reflection of American life and themes. Students will examine how these playwrights’ works have been interpreted by literary critics, film directors, screenwriters, actors, and the viewing public.

**HUM 1040 Survey of Literature (3 hours)**

Reading, analyzing and writing about a variety of literary genres including poetry, drama and the short story from the classic to the contemporary. Students will be asked to express and defend their thoughts both orally and through the written word.

**HUM 1100 The Works of William Shakespeare (3 hours)**

Emphasizes the role Shakespeare played in drama and world literature. The course covers five plays (two comedies, two tragedies, and a history play). Students will evaluate how Shakespeare’s plays transcend time and culture and will examine universal themes that dominate his work. Students will examine how Shakespeare’s work has been interpreted by literary critics, film directors, screenwriters, actors, and the viewing public.

**HUM 230 Digital Photography (3 hours)**

This course introduces the student to photography in the digital format. The goal is to teach and enhance visual communication involving personal expression and creativity. It teaches the student to translate an idea into a digital image enabling the student to use images for personal expression as well as internet communication and commercial applications. Students will learn basic technical skills involving use of cameras and software applications as they relate to photographic principles. It is a non-lab course. Registered students need access to a camera with the versatility to perform assignments. A textbook is not required.

**HUM 260 Caring for the Aging Population (3 hours)**

How and why do we age? Is old age necessarily a period of decline? What are the benefits of old age? Why is it important to study aging? How is individual aging related to the structure of society? What are the problems of an aging society? These and other questions are the topic of this course. We will examine aging from the perspectives of sociology, psychology, social demography, history, biology, the medical sciences, and economics. In particular, we will start by studying aging from a developmental or life course perspective. Then we will discuss health care for the elderly and issues of death and dying. We will end the course with a social and economic outlook for an aging society.

**HUM 4100 - General Anthropology (online) (3 hours)**

This course is an introduction to the discipline of anthropology as a whole. It presents students with a theoretical grounding in the four major subfields: archaeology, physical anthropology, cultural anthropology, and linguistics. In this class the emphasis is on the holistic nature of the discipline. Students will explore key questions about human diversity in the past, present, and future.

**HUM 4510 - Fact or Fiction (3 hours)**

A study of scientific topics and social concerns today and in history, this course examines our assumptions about the natural world and our place in it. It will take a close look at the science and history behind some of the most contentious topics we face, including evolution, epidemic disease, genetic engineering, and environmental change. Learners will be asked to use this information in order to evaluate claims made in the popular media about how we, as a society, navigate the competing claims of morality, government, and the common good. (The interdisciplinary nature of this course allows it to satisfy Common Core requirements in Social Science or Math/Science.) Same as HIS 4510

## INFORMATION TECHNOLOGY

### **IT 1000 Introduction to Information Technology (3 hours)**

This course is designed to provide an introduction to information technology concepts and careers as well as the impact information technology has on the world, people, and industry and basic web design concepts.

### **IT 1200 Introduction to Management Information Systems (3 hours)**

This course is an overview of the information management process in organizations. Topics include knowledge management and data mining.

### **IT 2000 Computer Management & Maintenance (3 hours)**

This course is a basic introduction to the maintenance of hardware and software of personal computers and basic server architecture and maintenance.

### **IT 2100 Foundations of Networking (3 hours)**

This course is an overview of the basic concepts of network structure and management.

### **IT 2200 Introduction to Programming (3 hours)**

This course is an overview of the basic principles of programming.

### **IT 4475 Management of Telecommunications (3 hours)**

A course designed to introduce Organizational Leadership students to the world of telecommunications. The concentration will be on defining user needs, procurement, life cycle, current and future technologies for business.

### **IT 4500 IT Management (3 hours)**

This course explores the fundamentals of management as it relates to Information Technology. Through the use of case studies, the course addresses the challenges of managing technology professionals and technology assets; human resource management; management of services, infrastructure, outsourcing, and vendor relationships; technology governance and strategy; and resource planning.

### **IT 4510 Data Security (3 hours)**

Through the use of case studies, this course examines topics in the management of information technology security including access control systems and methodology, business continuity and disaster recovery planning, legal issues in information system security, ethics, computer operations security, physical security and security architecture & models using current standards and models.

### **IT 4520 Managing IT Human Resources (3 hours)**

Technical professionals' goals and incentives are often different from those of other employees, and so are the management challenges that arise. This course explores proven, practical, and innovative strategies for maximizing the contribution of technical professionals.

### **IT 4530 Understanding Service Oriented Architecture (3 hours)**

In this course you will learn about the emerging science and technology of Service Oriented Architecture. The course is designed to provide students with a basic understanding of this important trend in software engineering.

**IT 4540 E-Commerce (3 hours)**

The course provides a framework for understanding e-commerce, including possible marketing opportunities, as well as implementation and organization issues involved in capitalizing on e-commerce.

## **MANAGEMENT & ORGANIZATIONAL DEVELOPMENT**

**MOD 101 Portfolio Development (3 hours)**

This course is strongly recommended for students planning to submit a portfolio describing and documenting their prior college-level learning experience. Topics include an overview of experiential learning, writing a portfolio paper, and collecting documentation in support of a portfolio paper.

**MOD 120 Basic Employment Law (3 hours)**

This course is an introduction to the basic principles of employment law. The course covers major legislation affecting the employment relationship including civil rights, whistleblower, and wage/hour law. The course also introduces basic theories of tort law as they apply to the employment relationship.

**MOD 1500 Introduction to Group Dynamics (3 hours)**

This course focuses on the communication behavior of individuals within group structures. Students explore the stages of group development, decision-making techniques, group problems and problem solving, resolution skills, norms, structures, leadership, authority, membership, ethics, cultural sensitivity, and the intra-and inter-personal dynamics within small groups.

**MOD 205 Group Dynamics (3 hours)**

Group Dynamics is designed to provide the opportunity to study the principles underlying the process of group action and interaction in social situations and in professional leadership and supervisory group situations.

**MOD 2150 Business Communications (3 hours)**

Introduction to various types of professional communication, both written and oral. Students practice skills in communication styles such as memos, email, research reports, proposals, presentations, and interviews.

**MOD 217 Six-Sigma (3 hours)**

This course will offer an overview of Six-Sigma and the initiation of process improvement. The concept of Six-Sigma will be defined and distinguished from other quality improvement programs. The initiation and implementation of Six-Sigma programs is incorporated as are the representative tools used in Six-Sigma programs.

**MOD 220 Substance Abuse in the Workplace (3 hours)**

A detailed analysis of the impact on the workplace of the abuse of both legal and illegal drugs. This course will give an in-depth overview of selected substances that are commonly abused in the workplace. This course will cover theories of counseling used to treat chemically dependent individuals.

**MOD2300 Organizational Behavior (3 hours)**

This course provides an opportunity to critically examine a variety of current social issues facing organizations. The focus will be on the development of appropriate organizational attitudes, dealing with individual difference managing diversity, motivating employees, communications in the workplace as well as managing conflict.

**MOD 240 Lean Operations (3 hours)**

This course focuses on the concept of lean operations for manufacturing, service, and healthcare industries. A history of operational management is detailed before exploring the specifics of lean philosophy. A comprehensive discussion of the foundation and tenets of Lean precede the development of Lean tools utilized by major corporations for operations improvement. This course is activity-based with group and class interactive projects to emphasize key Lean concepts.

**MOD 2500 Group & Organizational Dynamics (3 hours)**

A study of group behavior and how group functioning affects organizational effectiveness. Emphasis is placed on decision-making and resolving conflict in groups. Adult learners develop strategies for efficient and productive group management techniques.

**MOD 252 Organizational Communication (3 hours)**

This course examines the role communication plays in creating a productive and successful organizational environment. This class aids adult learners in developing, analyzing and strengthening their communication skills by focusing on different types of communication, various communication mediums, presentation skills, conflict management and types of diversity within communications.

**MOD 260 Critical Thinking (3 hours)**

This course, based on the critical literacy theory, provides tactile learning experiences in the use of intellectual tools to analyze, evaluate, and improve thinking, day-to-day thinking processes.

**MOD 261 Practical Stress Management (3 hours)**

Emphasizes how stress affects human health and behavior. Stress can affect a person psychologically, emotionally and physically. The course will examine how stress affects such diseases as cancer, hypertension, diabetes, and heart disease. Stress can also be related to environmental factors such as job and family life. Stephen Covey's First Things First and The Four Quadrants of Time Management will be discussed as a possible means to help students alleviate stress. Type A and Type B personalities will be examined, and students will learn stress management techniques which will aid them in dealing with stress on a daily basis.

**MOD 2615 Critical Thinking for Managers (3 hours)**

This course helps students learn to think clearly, concisely and analytically, through a familiarity with the Critical Literacy Theory. Students learn how to define terms, formulate arguments, and analyze statements critically and objectively.

**MOD 262 Drug and Alcohol Addiction (3 hours)**

Drug and Alcohol Addiction provides the adult learner with a basic understanding of these substances and their addictive qualities. The course begins with a historical perspective of drugs and alcohol in society and what current societal perceptions prevail. The adult learner will gain an appreciation for the biological and physiological basis for addiction. Adult learners will identify general drug classifications and their effects on physiology. The course concludes with the progression of substance abuse from casual use into addiction.

**MOD 2620 Managing Stress (3 hours)**

This course provides an overview of the underlying causes of stress and how stress affects health. The course focuses upon stress reducing techniques such as time management as described by Steven Covey.

**MOD 265 Critical Thinking in Organizations (3 hours)**

This course is designed to impart a functional ability to reason well and to improve your analytical skills and instincts. Using the Critical Literacy Theory, you will develop a understanding of the methods used in building strong arguments, the course is further designed to aid you in understanding the essentials of reasoned decision making.

**MOD 301 Introduction to Adult Learning (3 hours)**

This course provides a paradigm for understanding individuals within organizations. Topics covered include adult learning theory, group formation and conflict management, the work environment, and communication channels within organizations. The course also covers writing and presentation skill development.

**MOD 310 Issues in Management (3 hours)**

This course is about motivational theory and its application to individuals and group functioning in work and home situations. Leadership styles related to particular circumstances are analyzed. Negotiation is covered through readings and class practice, with an analysis of the effect of productivity.

**MOD 320 Systems Approach to Organizational Change (3 hours)**

An online class that examines the formal and informal functions of organizations and analysis of agencies or organizations based on a systems model. Adult learners analyze and solve organizational problems using a step-by-step method, which will be applied to work-related independent study projects. This class serves as the springboard for the organizational research project.

**MOD 330 Information Systems (3 hours)**

This introductory course is designed to answer many fundamental questions about the role of information systems in business from a management perspective.

**MOD 323 Organizational Theory**

The course is an investigation of the theoretical models of organization and how organizations can be structured for maximum efficiency.

**MOD 341 Foundations of Leadership (3 hours)**

In this course you will learn about individual decision making, group decision making, and managing motivation. The objectives are to understand why and how leadership skills are so critical to organizational success.

**MOD 350 Human Behavior in Organizations (3 hours)**

This course is an examination of current theory in organizational behavior including the study of interactions between and among individuals in the organizational context. Topics include organizational culture, goal-setting, performance management, stress and work-life balance, teams and power in organizations.

**MOD 360 Intro to Research Methods & Analysis Using Statistics (3 hours)**

Problem analysis and evaluation techniques. Methods for defining researching, analyzing, and evaluating problems in the work or vocational environments selected for an independent study project. Specific statistical information covered in the course includes identifying and measuring objectives, collecting data, working with significant levels, and analyzing variance and constructing questionnaires.

**MOD 380 Followership (3 hours)**

This course is designed to introduce students to the Followership concept. Followership has been described as the other side of leadership. Followership is premised on the notion that leaders and followers serve a common organizational purpose. Followership also explains how leaders and followers are organizational roles filled by individuals in organizations, and oftentimes individuals are both leaders and followers simultaneously.

**MOD 400 Human Resource Management (3 hours)**

Exploration of the values and perceptions of selected groups affecting social and economic life through an analysis of policies and practices of recruitment, selection, training, development and compensation of employees. Special attention is given to Equal Opportunity and Office of Safety and Health Administration legislation through a series of case studies and simulations.

**MOD 410 Quantitative Approaches to Managerial Decision-Making (3 hours)**

This course is an examination of quantitative applications in management with an emphasis in management accounting and operations management. Topics include: budgeting, forecasting, cost control, financial analysis, the value-chain, cost management and total quality management.

**MOD 415 Servant Leadership (3 hours)**

This course focuses on learning and applying a servant leadership approach. Servant leaders are motivated to serve first and lead second. Servant leaders operate from a position of strength through service to organizational members and other organizational stakeholders. Applying a servant leadership approach involves using visionary foresight to establish organizational goals and then serving the needs of followers and stakeholders in a cumulative effort to achieve results.

**MOD 420 Issues in Marketing (3 hours)**

Principles of marketing needed by managers in all areas in order to develop and utilize effective marketing practices. Concepts of our global economy, including major social, psychological and political influences and their marketing implications considered from a manager's perspective.

**MOD 4251 Marketing Through Social Media (3 hours)**

We are living in a period of great change in the business world due to the technologies that are changing the way people communicate with each other and as well as the organizations that interest them. This course is designed to provide the basic knowledge necessary to harness the marketing power of social media.

**MOD 430 Business, Government and the International Economy (3 hours)**

This course examines the interaction between business organizations, governmental structures, and the international economic environment. Topics include governmental attempts to regulate business organizations and manage the national economy. Models of competitive production are reviewed as in the impact of global competition.

**MOD 4351 – Sales Management (3 hours)**

This course covers responsibilities and strategies associated with managing a sales force, examines selling techniques from a variety of perspectives. Gaining an understanding of selling in the contemporary business environment with a strong focus on creating and communicating value for customers and managing the buyer/seller relationship process is a key component of this course.

**MOD 4375 Contemporary Selling (3 hours)**

Selling is one of the most dynamic areas of business and knowledge about selling is invaluable to any student. This module introduces you to the field of selling and also provides basic skills in selling that can be used right away. Among the key topics are the following: sales careers and the selling process, sales technologies, prospecting, negotiation and the sales call, closing approaches, managing salespeople, and global aspects of sales.

**MOD 440 Strategic Planning (3 hours)**

Various management planning models, techniques, and application to business cases. Concepts of strategic planning and strategic management.

**MOD 4450 - Crisis Management (3 hours)**

This course develops managerial skills in crisis avoidance, management, and recovery. Students learn how to respond to situations creating danger to organizations, their employees, and the public. Same as CCJ 4600.

**MOD 4455 - Crisis Management in Business (3 hours)**

This course explore how and why public, private and nonprofit organizations prepare for, respond to, and recover from disasters and other crisis situations.

**MOD 450 Ethical and Legal Environment of Modern Organizations (3 hours)**

This course considers managerial decision-making from an ethical and legal standpoint. Topics include the application of moral philosophy to the business environment, the Constitutional basis for regulations such as teams in capitalist environments, antitrust regulation, and human rights.

**MOD 4550 Business and Society (3 hours)**

This course introduces a strategic social responsibility for courses that address the role of business in society. Social responsibility is concerned with issues related to values and expectations, as well as the rights of members of society. We view social responsibility as the extent to which a business adopts a strategic focus for fulfilling the economic, legal, ethical, and philanthropic responsibilities expected by all its stakeholders.

**MOD 460 A, B, C, /OL 4700 Organizational Research Project (6 hours)**

This is an online independent project requiring the analysis of an organization, identification of a problem or opportunity, research of previous work on the topic, and collection and analysis of data to make an informed recommendation. A comprehensive paper documenting the development of the project is required. This is a 3-part course with each section worth 2 credit hours for a total of 6 semester hours.

**MOD 470 Organizational Research Project (Optional\*) (3 hours)**

This is an online independent project requiring the analysis of an organization, identification of a problem or opportunity, research of previous work on the topic, and collection and analysis of data to make an informed recommendation. A comprehensive paper documenting the development of the project is required.

**MOD 475 Organizational Culture and Climate**

This course examines the role of organizational culture and climate in the context of organizational management. Organizational culture types and elements are examined as influenced by organizational leaders. Organizational climate is examined as experienced and influenced by organizational members. Organizational culture and climate are examined in contrast.



**MOD 4801 Legal Environment of Business (3 hours)**

The dynamic nature of law, the legal processes and specific areas of law that guide business decisions are discussed. The course addresses the aspects of law and its standard for human behavior that increasingly affects and constrains business activity. Includes introductions to the legal system, tort, criminal and contract law.

**MOD 4900 - Special Topics: (1-3 hours)**

A special course or seminar designed to offer unique learning experiences beyond typical coursework. Topics offered are approved by the Academic Dean.

## MATHEMATICS

**MTH 021 Elementary Algebra (3 hours)**

Real numbers, algebraic concepts, linear equations and inequalities, factoring, operations on polynomials, rational expressions and equations, graphing linear functions, simple roots, and quadratic equations. Hours completed do not count toward graduation requirement. A grade of C or better is required before proceeding to MTH 105.

**MTH 105 Basic College Algebra (3 hours)**

A course to prepare students for MTH 111 or MTH 112. Real numbers, polynomials, rational expressions, exponents and radicals, linear equations and in equations, absolute values, complex numbers, rational equations, solution of quadratic equations by factoring and the quadratic formula, and linear functions, systems of linear equations, simple graphing techniques. Hours completed may be used only as elective credits toward graduation. A grade of C or better is required before proceeding to MTH 111 or MTH 112. Prerequisite: ACT mathematics score of at least 16 or MTH 021 with a grade of C or better or permission of instructor.

**MTH 111 College Algebra (3 hours)**

The function concept, factoring, rational equations, inequalities and equations, mathematical induction, the binomial theorem, sequences, exponential and logarithmic functions, complex numbers, and theory of equations. Prerequisite: A score of 20 or more on the ACT in Mathematics or MTH 105 with a grade of C or better, or exemption.

**MTH 112 Finite Mathematics (3 hours)**

Quantitative methods used in business management, topics in algebra including exponential and logarithmic functions, elementary mathematics of finance, systems of linear equations, matrices, linear programming. Will not count toward a Math major or minor. Prerequisite: : A score of 20 or more on the ACT in Mathematics, MTH 105 with a grade of C or better, or exemption.

**MTH 113 Mathematics For Humanities (3 hours)**

A survey of mathematics for non-science majors. Topics include basic set theory and logic, applications of algebra and geometry, the mathematics of personal finance. Will not count towards a mathematics major or minor. Credit cannot be given for both MTH 112 and MTH 113. Prerequisite: A score of 20 or more on the ACT in Mathematics, MTH 105 with a grade of C or better, or exemption.

**MTH 120 College Algebra with Precalculus (4 hours)**

Algebra course designed for students who plan to take calculus covering linear, quadratic, polynomial, radical, and exponential equations, graphing and evaluating various functions. Introduction to the polar coordinate system, right triangle trigonometry, base trigonometric functions and their graphs, fundamental trigonometric identities, and the Laws of Sines and Cosines. Prerequisites: minimum of MTH 105 with a grade C or above or a minimum score of 20 on the ACT.

**MTH 123 Pre-Calculus (3 hours)**

Elementary functions including polynomial, rational, exponential, logarithmic, and trigonometric. Inverse functions, composite functions, complex numbers, vectors, and applications. Prerequisite: A score of 23 or more on the ACT in Mathematics, MTH 111 with a grade of C or better, or exemption.

**MTH 200 Applied Calculus (3 hours)**

Elementary differential and integral calculus with applications in management and biological science; not open to students with credits in MTH 230 or 231. Prerequisite: A score of 23 or more on the ACT in Mathematics, MTH 111 or MTH 112 with a grade of C or better, or exemption.

**MTH 202 Introduction to Statistics (3 hours)**

Frequency distributions, probability, elementary statistical techniques, analysis and interpretation of data. May not be taken for major or minor mathematics credit. Prerequisite: MTH 111 or MTH 112 or MTH 113 with a grade of C or better, or exemption.

**MTH 230 Calculus I (4 hours)**

Review of equations and inequalities. Elementary functions, their graphs, and their derivatives. Inverse functions, Limits derivatives, applications of derivatives, continuity. Prerequisites: MTH 123, or two years of high school algebra and a semester of trigonometry.

**MTH 231 Calculus II (4 hours)**

The integral, integration techniques, integration of the elementary functions including exponential, logarithms, trigonometric and inverse trigonometric; differentials, improper integrals, and series. Prerequisite: MTH 230.

**MTH 232 Calculus III (4 hours)**

Vectors, vector valued functions, functions of several variables, gradients, multiple integrals, line, and surface integrals. Prerequisite: MTH 231.

**MTH 301 Multivariate Calculus (3 hours)**

A study of vector-valued functions, function of several variables, differentials, gradients, multiple integrals, line and surface integrals, Stokes Theorem, and Green's Theorem. Prerequisite: MTH 232.

**MTH 311 Abstract Algebra I (3 hours)**

Mappings, equivalence relations, groups, rings, integral domains, number fields, and polynomials. Prerequisite: MTH 320.

**MTH 320 Discrete Mathematics (3 hours)**

Order relations, set algebra, Boolean algebra, functions as single value relation. Propositional logic and truth functions. Graphs and trees with applications in computer science. Prerequisite: MTH 231 or permission of instructor.

**MTH 321 Linear Algebra (3 hours)**

Vector spaces, matrices, determinants, systems of equations, linear transformations, eigen values and eigen vectors. Prerequisite: MTH 232.

**MTH 335 Non-Euclidean Geometry (3 hours)**

Review of Euclidean plane geometry with special emphasis given Euclid's fifth postulate; hyperbolic geometry, elliptic geometry. Prerequisites: MTH 232 and one year of high school geometry.

**MTH 341 Differential Equations (4 hours)**

Equations of first and second order, linear equations of higher order, operators, variation of parameters, Laplace transforms, applications. Prerequisite: MTH 232.

**MTH 342 Numerical Methods (3 hours)**

Computer solutions to mathematical problems in areas of calculus, theory of equations, and matrices. Laboratory. Prerequisite: CSC 341 and MTH 321. Same as CSC 342. Previous programming experience is recommended.

**MTH 350 Probability and Statistics I (3 hours)**

Discrete and continuous probability spaces, statistical independence, distributions, discrete and continuous random variables, expectations, and moment generating functions of probability distributions. Prerequisite: MTH 231.

**MTH 351 Probability and Statistics II (3 hours)**

Estimation of parameters, confidence intervals, hypothesis testing with applications, regression and correlation, Bayesian estimation. Prerequisite: MTH 350.

**MTH 399, 499 Individual Study (1-3 hours)**

In-depth study of a subject of interest beyond courses in the curriculum. Prerequisite: Junior standing, approval of advisor and Academic Dean.

**MTH 411 Advanced Calculus I (3 hours)**

Topics of an advanced nature selected from the differential and integral calculus. Real number system, sequences, continuity, uniform continuity, series and residues. Prerequisite: MTH 320.

**MTH 412 Advanced Calculus II (3 hours)**

Continuation of Math 411. Prerequisite: MTH 411.

**MTH 421 Introduction to Topology (3 hours)**

Topology of real line, metric spaces, continuous functions, homeomorphisms, topological invariants. Prerequisite: MTH 320.

**MTH 460 Internship (1-12 hours)**

Approved work experience requiring mathematics background. Prerequisites: Consent of advisor, senior standing.

**MTH 490 Special Topics (1-3 hours)**

A special course developed to afford learning experiences beyond courses in the curriculum. Topics for the course require approval of the Academic Dean.

**MTH 495 Honors Project (4 hours)**

Open to seniors by invitation only.

## MUSIC

**MUP 106-406 Guitar Ensemble (1 hour)**

Small guitar groups organized for instruction in playing music for more than one guitar as well as for playing guitar duets and trios. Meets twice weekly.

**MUP 108-408 Applied Brass (1-2 hours)**

Private lessons: One-half hour lesson for 1 hour credit; 1 hour less for 2 hours credit. May be repeated for credit.

**MUP 111-411 Bethel University Singers (1 hour)**

Touring vocal ensemble with admittance by audition and permission of instructor. May be repeated for credit. Class standing at enrollment determines level.

**MUP 113-413 Music Theatre Chorus (1 hour)**

Choral ensemble for musicals and operettas. Open to all students and the community. May be repeated for credit. Class standing at enrollment determines level.

**MUP 114-414 Applied Organ (1-2 hours)**

Private lessons: One-half hour lesson for 1 hour credit; 1 hour less for 2 hours credit. May be repeated for credit. Class standing at enrollment determines level. Prerequisite: Piano proficiency equivalent to exit level for MUS 252.

**MUP 115-415 Applied Piano/Harpsichord (1-2 hours)**

Private lessons: half-hour lesson for 1 hour credit; 1 hour lesson for 2 hours credit. May be repeated for credit. Class standing at enrollment determines level. Prerequisite: Piano proficiency equivalent to exit level for MUS 252

**MUP 116-416 Applied Voice (1-2 hours)**

Private lessons: One-half hour lesson for 1 hour credit; 1 hour less for 2 hours credit. May be repeated for credit. Class standing at enrollment determines level. Prerequisite: MUS 161.

**MUP 117-417 Applied Guitar (1-2 hours)**

Private lessons: One-half hour lesson for 1 hour credit; 1 hour less for 2 hours credit. May be repeated for credit. Class standing at enrollment determines level. Prerequisite: MUS 161.

**MUP 118-418 Applied Woodwinds (1-2 hours)**

Private lessons: One-half hour lesson for 1 hour credit; 1 hour less for 2 hours credit. May be repeated for credit.

**MUP 119-419 Chamber Ensemble (1 hour)**

Performance of literature for various combinations of voices and/or instruments composed specifically for smaller groups. Meets twice weekly

**MUP 123-423 Hand bell Choir (1 hour)**

Admission by audition. The choir will ring literature for 3-5 octaves of English hand bells, learning and using various ringing and damping techniques as well as special effects. The Hand bell Choir will perform in churches, schools, and at least once per semester on campus. Rehearsals are held three times weekly.

**MUP 124-424 Applied Percussion (1-2 hours)**

Private lessons: One-half hour lesson for 1 hour credit; 1 hour less for 2 hours credit. May be repeated for credit.

**MUP 133-433 Applied Strings (1-2 hours)**

Private lessons: One-half hour lesson for 1 hour credit; 1 hour lesson for 2 hours credit. May be repeated for credit.

**MUP 139-439 Wind Ensemble (1 hour)**

Admission by audition. Weekly rehearsals culminate in public performances of selections from Wind Band repertoire in a concert setting. May be repeated for credit. Prerequisite: Successful audition and/or interview with instructor.

**MUS 010 Recital Hour (0 hours)**

Required for all music majors. Students must attend all student and faculty recitals and perform in recital hour at least once each semester when enrolled in applied music for credit.

**MUS 101 Music Fundamentals (3 hours)**

Basic introduction to the elements of music. Includes the staff, clefs, rhythms, key signatures, scales, and chords. Introduction to sight-singing, ear training, and keyboard skills. Designed for non-music majors and for music majors or minors with little or no background in music.

**MUS 102 Singers' Diction (3 hours)**

An introduction to international phonetic alphabet symbols as they apply to pronunciation for singing. An introduction to pronunciation and application rules for singing in Italian, French, German, and Church Latin.

**MUS 121 Music Theory I (3 hours)**

Survey of foundational concepts in music theory; melodic, rhythmic, and harmonic materials; musical structure and form; basic counterpoint and analysis. Prerequisite: MUS 101 or score of 60% or higher on proficiency exam administered first day of class. Proficiency exam includes note-reading, major and minor scales, rhythms, and triad recognition.

**MUS 121L Music Theory I Lab (1 hour)**

Practical application of MUS 121: sight-singing using solfege, recognizing and singing intervals, reading rhythms, recognizing triads. Usage of Practica Musica software.

**MUS 122 Music Theory II (3 hours)**

Continuation of MUS 121. Fundamental concepts in music theory examined in detail; melodic, rhythmic, and harmonic materials; musical structure and form; contrapuntal composition and analysis. Prerequisite: MUS 121, 121L.

**MUS 122L Music Theory II Lab (1 hour)**

Practical application of MUS 122: advanced sight-singing using solfege, melodic dictation, reading rhythms including syncopation, recognizing seventh chords. Use of Practica Musica software.

**MUS 151 Class Piano I (1 hour)**

Piano skills for beginners taught in a group setting.

**MUS 152 Class Piano II (1 hour)**

Continuation of MUS 151. Prerequisite: MUS 151 or exemption.

**MUS 161 Class Voice (1 hour)**

Basic principles of vocal technique, diction, preparation of vocal literature and public performance; taught in a group setting.

**MUS 171 Class Guitar (1 hour)**

Guitar skills for beginners taught in a group setting.

**MUS 201 Music Appreciation (3 hours)**

Listening skills, descriptive musical vocabulary, and selected works of the cultural tradition of the Western World.

**MUS 221 Music Theory III (3 hours)**

Advanced harmony and preliminary analysis.

**MUS 226 Brass Methods (1 hour)**

The course presents fundamentals of playing and teaching brass instruments. Course content focuses on cultivating students' proficiency with brass instruments as well as developing their ability to evaluate and teach basic principles of brass playing. Prerequisite: MUS 121.

**MUS 227 Percussion Methods (1 hour)**

The course presents fundamentals of playing and teaching percussion instruments. Course content focuses on cultivating students' proficiency with percussion instruments as well as developing their ability to evaluate and teach basic principles of percussion playing. Prerequisite: MUS 121.

**MUS 228 String Methods (1 hour)**

The course presents fundamentals of playing and teaching the violin, viola, cello, and bass. Course content focuses on cultivating students' proficiency with string instruments as well as developing their ability to evaluate and teach basic principles of string playing. Prerequisite: MUS 121.

**MUS 229 Woodwind Methods (1 hour)**

This course presents fundamentals of playing and teaching woodwind instruments. Course content focuses on cultivating students' proficiency with woodwind instruments as well as developing their ability to evaluate and teach basic principles of woodwind playing. Prerequisite: MUS 121.

**MUS 230 Foundations in Church Music (3 hours)**

An introduction to Biblical, theological, and philosophical foundations for music ministry, including studies in historical and contemporary Christian worship and such practical aspects as time management, staff relations, budgeting, and training of volunteer leaders in the church music program. Field observation (30 hours) in a local church music program will be required.

**MUS 235 Survey of Music Literature (3 hours)**

Introduction to the historical styles of music through listening and scorereading. The student will build a working knowledge of a basic music repertory through listening and score study. Attendance at and review of several music performances will be required. Prerequisite: MUS 122, 122L.

**MUS 238 Survey of the Music Industry (3 hours)**

The course will explore the history, procedures, structure, standard practices, ethical issues, and technologies involved with all facets of the business of music. Students will observe various careers within these facets of the industry.

**MUS 242 Live Sound Engineering (3 hours)**

Basic principles of sound reinforcement and how audio can be manipulated utilizing current live sound technology. Theory will be discussed as it pertains to the understanding of what makes a good production. Concepts include signal flow, microphone selection and placement, signal processing, and mixing. The student will be able to render a multi-channel mix for live production, from concept to completion, employing all the above concepts to demonstrate a solid knowledge of sound reinforcement fundamentals. Prerequisite: MUS 261.

**MUS 251 Class Piano III (1 hour)**

Piano skills for advanced beginners taught in a group setting. Prerequisite: MUS 152 or exemption.

**MUS 252 Class Piano IV (1 hour)**

Continuation of MUS 251. Prerequisite: MUS 251 or exemption.

**MUS 261 Introduction to Music Production (2 hours)**

An introduction to the basic principles of sound and how audio can be captured and manipulated utilizing current recording technology. Theory will be discussed as it pertains to the understanding of what makes a good recording. Concepts include signal flow, microphone selection and placement, signal processing, and mixing. The student will be able to render a multi-track recording employing all the above concepts to demonstrate a solid knowledge of basic recording fundamentals.

**MUS 262 Introduction to Pro Tools (3 hours)**

An introduction to the advanced principles of sound and how audio can be captured and manipulated utilizing the current recording technology standard - Pro Tools. Theory will be discussed as it pertains to the understanding of what makes a good recording. The course will provide an in depth study of Pro Tools software including session structure, Window configurations, recording and importing audio, basic MIDI, navigation tools, audio processing using AAX Native plug-ins, and bounce to track/disk functions. The student will be able to navigate and work with music and post-production projects demonstrating a solid knowledge of Pro Tools. Prerequisite: MUS 261.

**MUS 264 Pro Tools Production I (3 hours)**

This course expands upon the basic principles taught in Introduction to Pro Tools and introduces the core concepts and skills students need to operate a Pro Tools system running large sessions with high track counts. The course focuses on working with expanded hardware and software configurations, developing multifaceted tools for manipulating and editing both audio and MIDI data, and implementing various techniques to facilitate more complex recording and mixing scenarios. Prerequisite: MUS 262.

**MUS 301 Music History I (3 hours)**

History of music from the ancient Greeks to the Baroque era. Prerequisites: MUS 122, 122L.



**MUS 302 Music History II (3 hours)**

History of music from the Classical era to the present. Prerequisite: MUS 301.

**MUS 303 Musical Analysis (3 hours)**

Principles of advanced harmony, counterpoint, and form as revealed in analysis of musical scores. Prerequisite: MUS 122, 122L.

**MUS 304 Conducting (2 hours)**

Physical conducting techniques, rehearsal procedures, programming, and fundamentals of choral and instrumental scores. Prerequisites: MUS 122, 122L.

**MUS 305B Advanced Conducting (2 hours)**

A continuation of MUS 304 with an emphasis on applying the grammar of conducting to a choral-instrumental setting, including methods for addressing fundamental vocal technique, diction, blend, balance, intonation, choral sight reading, musicianship and solving complex musical problems in the context of choral-orchestral rehearsal. The student will engage in extensive score analysis of choral and instrumental rehearsal techniques but will focus on gaining increasing proficiency in conducting skills necessary for clear communication with the choir and orchestra.

**MUS 321 Music for Worship (3 hours)**

Survey of the history and practice of both worship and music used in worship services. Emphasis will be given to all forms of worship and musical styles as well as effective worship planning using these various styles.

**MUS 326 Marching Band Techniques (3 hours)**

A course designed to introduce students to the fundamental principles of effective instruction with respect to the contemporary marching band and to provide students with the opportunities to practice applying these skills in learning how to prepare, organize, teach, and rehearse this type of ensemble. Prerequisite: MUS 121.

**MUS 330 Music Publishing (3 hours)**

This course provides a focused overview of the music publishing industry including: the history of music publishing, functions of music publishing, music publishing and sub publishing agreements, and how these components operate within the industry through various venues such as recorded music, print music, television, motion pictures, Broadway musical, internet, and new media outlets.

**MUS 331 Popular Music History (3 hours)**

Historical analysis of music industry trends and developments since 1890.

**MUS 332 Touring and Merchandising (3 hours)**

This course explores the development, organization, and execution of tours, shows, and live events. Students will identify the roles and responsibilities involved for a successful outcome of an event including the design and merchandising of tour-related merchandise. Students will observe various careers within touring and merchandising.

**MUS 333 Principles of Mixing (3 hours)**

An introduction to advanced principles of mixing. Theory will be discussed and practiced as it pertains to the understanding of what makes a good recording. Concepts include signal flow, microphone selection and placement, signal processing and mixing, and live recording. The student will be able to render a multi-track recording, from concept to completion, employing all the above concepts to demonstrate a solid knowledge of recording fundamentals with heavy emphasis on mixing. Prerequisites: MUS 264.

**MUS 334 Principles of Mastering (3 hours)**

The purpose of this course is to introduce advanced principles of mixing/ mastering. Theory will be discussed and practiced as it pertains to the understanding of what makes a good recording. Concepts include signal processing and mixing/mastering. The student will be able to render a multi-track recording, from concept to completion, employing all the above concepts to demonstrate a solid knowledge of recording fundamentals with heavy emphasis on mixing/mastering and final CD ready for mass production. Prerequisite: MUS 264.

**MUS 335 Leadership and Music Management (3 hours)**

This course considers multiple facets of leadership. Students will explore the theories, characteristics, and styles of leadership. Additionally, students will examine the functions of management including developing, planning, implementing, and controlling using various decision-making skills. Students will employ critical thought and assessment of their leadership and management skills and characteristics. Students will create an action plan for personal development.

**MUS 337 Audio for Media (3 hours)**

an introduction to the use of music and sound in different media applications. The student will be able to create, manipulate, and add sound effects and music tracks to a time-line presentation in various media types including film and radio. Prerequisite: MUS 264.

**MUS 346 Elementary Music Methods (3 hours)**

Music curriculum for the elementary school. Includes study of current methods and materials, planning for music instruction, and presentation of music lessons to elementary school children. Prerequisite: MUS 122, 122L.

**MUS 350 Advanced Music Production (3 hours)**

Students study and learn how to play and utilize virtual instruments and other MIDI instruments in an advanced production environment. Students will study each parameter within the virtual instruments and the effect the parameters have on the resulting sound and how to design sounds based on those parameters. Students will also learn how to be more creative with effects and MIDI/virtual instruments and how to improve the overall sound of musical productions. Prerequisite: MUS 264.

**MUS 352 Critical Listening and Music Production Analysis (3 hours)**

This course provides students with a better sense of the mixing process, and develops the ability to hear and identify the key features of a well balanced, artful and professional-sounding mix. Students will gain a heightened level of music listening and awareness while expanding their production palette and vocabulary. Students will learn to hear and identify width and depth, frequency range, dynamic processing, panning, time-based and modulation effects, and various instrument styles/makes/models. Prerequisite: MUS 264.

**MUS 380 Junior Recital (1 hour)**

This major assignment is a presentation of music after concentrated preparation and is graded by music faculty.

**MUS 381 Junior Project (1 hour)**

Project topic will demonstrate junior-level competency. Projects require the preparation of a prospectus and approval from the student's major professor and a project committee. Prerequisite: Faculty approval.

**MUS 399, 499 Individual Study (1-3 hours)**

In-depth study of a subject of interest beyond courses in the curriculum. Prerequisites: Junior standing, approval of advisor and Academic Dean.

**MUS 401 Church Music (3 hours)**

Music in worship, Christian education, and the life of the church with particular emphasis on the hymn and the planning of worship services. Same as REL 401.

**MUS 407 Music Skills and Activities for Life (3 hours)**

Basic fundamentals of music: note reading, listening, singing, keyboard, instruments, movement, and conducting. Age-appropriate development of musical concepts and musicianship. Recreational and aesthetic aspects of music. Student-led class activities to demonstrate personal skills and leadership of group experiences in music.

**MUS 409 Church Music Education (3 hours)**

Methods and materials for teaching music in grades K-6. Includes demonstration and observation of teaching at this level. Designed primarily for the non-music major, this course involves study of a well-balanced program of singing, listening, rhythmic, creative, and instrumental activities.

**MUS 425 Practice of Church Music (3 hours)**

Organizing and leading the comprehensive church music ministry. Topics include pre-school/children's choir organization and leadership, instrumental music ministry, scheduling and promotion, and integrating the music ministry with other Christian educational programs in the church.

**MUS 430 Special Studies in Music (3 hours)**

Possible topics include song and opera literature, choral literature, keyboard literature. Prerequisite: MUS 122, 122L.

**MUS 435 Pedagogy (3 hours)**

A course of instruction for applied music in the area of voice, organ, piano, or guitar. Examines concepts of teaching, professional practice methods, resource materials, and ethical considerations for private instruction. Prerequisite: Junior standing in applied music or permission of instructor.

**MUS 436 Teaching Music in Secondary School (3 hours)**

Curriculum planning, teaching and evaluation practices for the teacher of choral/instrumental music in secondary schools; emphasis on characteristics and needs of all secondary students including diversity in race/ ethnicity, language, and/or special needs through a variety of instructional techniques. Unit and lesson development using Tennessee and national standards. Micro-teaching.

**MUS 440 Music Industry Law (3 hours)**

An in-depth study of the legal aspects of the music industry will be covered, including: contracts, music licensing, copyrights, royalties, music publishing, and other legal agreements. In addition to lectures and text, the course will utilize various case studies to present course material.

**MUS 460 Internship (1-12 hours)**

Approved work experience requiring music background. Prerequisites: Consent of advisor, senior standing.

**MUS 480 Senior Recital (1 hour)**

Major requirement. Graded by music faculty.

**MUS 481 Senior Project (1 hour)**

Project topic will demonstrate senior-level competency. Projects require the preparation of a prospectus and approval from the student's major professor and a project committee. Prerequisite: Faculty approval.

**MUS 490 Special Topics (1-3 hours)**

A special course developed to afford learning experiences beyond courses in the curriculum. Topics for the course require approval of the Academic Dean.

## **NURSING**

**NUR 300 Health Assessment of Adults (4 hours)**

This course introduces the student to normal and abnormal findings noted during physical assessment found in persons age 13 and up. The focus of the course will be on the assessment phase of the nursing process and the development of skills needed to perform physical assessment while considering psychosocial and cultural backgrounds. The topics of interviewing, utilizing therapeutic communication, and teaching health promotion behaviors will be discussed and practiced. Prerequisite: admission to the nursing program.

**NUR 302R Transition to Baccalaureate Nursing Practice (4 hours)**

This course is designed as a transition to baccalaureate nursing practice for the registered nurse. The expanding roles and concepts that influence nursing practice in today's complex health care environment are the focus of this class. Nursing theories and models of practice, critical thinking/ clinical reasoning, evidence-based practice, health promotion and illness prevention, health care delivery system, informatics, socialization and image, and career management will be discussed in relation to the baccalaureate role. Prerequisite: admission to the nursing program.

**NUR 305 Strategies for Nursing School Success (1 hour)**

Strategies for success in nursing school will be discussed. Topics to be discussed include study skills, time management skills, test-taking skills specific to nursing exams, individual learning styles and utilization of syllabus and textbook resources. Opportunities for practice of these strategies will be integrated into the discussion of each topic.

**NUR 306R Introduction to Research for Evidence-Based BSN Practice (3 hours)**

This course provides an overview of qualitative and quantitative research methodologies as applied to nursing practice and the role of the baccalaureate nurse as a critical research consumer. The research processes applied in each type of research, methods used to critique research studies prior to becoming a research consumer and implications for utilizing the findings for evidence-based nursing practice will be discussed. Prerequisite: admission to the nursing program.

**NUR 307R Pharmacological/Pathophysiological Basis for Complex Illness Nursing Care I (3 hours)**

Development of the clinical judgment skills necessary for the baccalaureate nurse to care for adults experiencing complex illness in all environments is the focus of these courses. Pathophysiology content, pharmacology content, and physiological knowledge are integrated to approach complex illness using critical thinking skills to determine appropriate nursing interventions and develop evidence-based clinical judgments. Each course is a part of a three part series that covers a variety of complex illnesses.

**NUR 310R Health Assessment of Adults (3 hours, 1 hour lab)**

This course will guide the student in differentiating normal and abnormal findings noted during physical assessment found in clients. The focus will be on the skills needed to perform physical assessment while considering psychosocial and cultural backgrounds. The topics of interviewing, therapeutic communication, and teaching health promotion behaviors will be discussed and practiced. Prerequisite: admission to the nursing program.

**NUR 311 Foundations in Nursing (5 hours)**

This course focuses on the foundations of professional nursing practice. The nursing process and evidenced-based practice will be explored and applied. Study of the factors that impact health, essential nursing interventions and the promotion of physiological functioning by the nurse will guide development of an understanding of the role of the nurse as provider of care. Beginning skills will be taught in a laboratory component of the course and implemented in the clinical component to prepare the student to function in the beginning role of provider of care. (3 hours class and 6 hours clinical per week) Prerequisite: admission to the nursing program.

**NUR 317 Pharmacology in Nursing I (2 hours)**

This course is the first half of a yearlong course in pharmacology in nursing. The courses together will focus on pharmacological therapy and the role of the nurse in drug management, with consideration of social, economic, and technological changes in administering medications safely. Emphasis will be placed on developing critical thinking abilities necessary to care for persons receiving medication therapy. Prerequisite: admission to the nursing program.

**NUR 318 Pharmacology in Nursing II (2 hours)**

This course is the second half of a yearlong course in pharmacology in nursing. The courses together will focus on pharmacological therapy and the role of the nurse in drug management, with consideration of social, economic, and technological changes in administering medications safely. Emphasis will be placed on developing critical thinking abilities necessary to care for persons receiving medication therapy. Prerequisite: NUR 317.

**NUR 321 Concepts in Nursing (2 hours)**

This course focuses on the values, roles, ethics and image of the professional nurse. Nursing theory, nursing models of practice, teaching/ learning and the health care delivery systems will be introduced. The history of nursing, nursing education, political factors affecting nursing, global health care, and the Nursing Code of Ethics will be discussed as well as their influence on current and future practice issues. The concepts of cultural diversity, altruism, autonomy, dignity, and integrity will also be introduced. Prerequisite: admission to the nursing program.

**NUR 322 Nursing Care of Clients with Psychosocial Disorders (4 hours)**

This course emphasizes the process of psychosocial adaptation in persons with acute and chronic mental disorders. The course also contains a clinical component that focuses on nursing care of clients in the psychosocial setting. The importance of critical thinking and developing evidence-based practice in the psychosocial setting will be emphasized. (2 hour class and 6 hours clinical per week.) Prerequisites: NUR 300, 311, 317, 321.

**NUR 323 Pathophysiology in Nursing (3 hours)**

This course will explore the pathological alterations of normal physiological function and the resulting disease processes along with their clinical manifestations. Prerequisite: admission to the nursing program.

**NUR 326 Nursing Care of Adults I (6 hours)**

This course is the first semester of a two semester series that examines theoretical and scientific knowledge necessary to care for culturally diverse adults. The physiologic pathology of selected diseases of adults, adaptation to stressors, and the dysfunction of systems will be discussed. This course also includes a clinical component that focuses on nursing strategies utilized to promote restoration of health during illness of adults. Critical thinking and the development of evidence based practice will be emphasized. (3 hours class and 9 hours clinical per week.) Prerequisites: NUR 300, 311, 317, 321.

**NUR 334 Nursing Care of Children and Adolescents (5 hours)**

This course examines theoretical and scientific knowledge necessary to care for culturally diverse children and adolescents. The physiologic pathology of selected diseases of children and adolescents, adaptation to stressors, and the dysfunction of systems will be discussed. This course also includes a clinical component that focuses on nursing strategies utilized to promote restoration of health during illness of children and adolescents. Critical thinking and the development of evidence based practice will be emphasized. (3 hours class and 6 hours clinical per week.) Prerequisites: NUR 318, 322, 323, 326.

**NUR 341 Research in Nursing (3 hours)**

This course introduces the student to the history of nursing research, research methodologies, and techniques of utilizing research findings to establish evidence-based practice. Quantitative and qualitative research designs will be reviewed to prepare the students to become knowledgeable consumers of research and in critiquing research. Prerequisite: MTH 202. Prerequisite: admission to the nursing program.

**NUR 402R Pharmacological/Pathophysiological Basis for Complex Illness Nursing Care II (3 hours)**

Development of the clinical judgment skills necessary for the baccalaureate nurse to care for adults experiencing complex illness in all environments is the focus of these courses. Pathophysiology content, pharmacology content, and physiological knowledge are integrated to approach complex illness using critical thinking skills to determine appropriate nursing interventions and develop evidence-based clinical judgments. Each course is a part of a three part series that covers a variety of complex illnesses.

**NUR 406R Baccalaureate Nursing Practice in the Community (2 hours, 2 hour lab)**

This course prepares the student as a generalist for entry level practice in community health nursing. Students will identify methods of delivering culturally competent health care to community groups while developing basic skills in epidemiological investigation, and community health assessment and health promotion. In addition, this course includes a clinical component that offers the student the opportunity to apply concepts learned in the community health nursing course by focusing on health promotion in areas such as public health, primary care, occupational health, home health, and hospice. Students will serve in roles of health educators, coordinators, and care providers in a community health setting. Prerequisite: 300 level nursing courses.

**NUR 410 Nursing Care of the Community (4 hours)**

This course prepares the student as a generalist for entry level practice in community health nursing. Students will identify methods of delivering culturally competent health care to community groups while developing basic skills in epidemiological investigation, and community health assessment and health promotion. In addition, this course includes a clinical component that focuses on health promotion in areas such as public health, primary care, occupational health, correctional health, and hospice. Student will serve in roles as health educators, coordinators, and advocates in a community health setting. (2 hours class and 6 hours clinical per week.) Prerequisites: NUR 334, 341.

**NUR 413R Pharmacological/Pathophysiological Basis for Complex Illness Nursing Care III (3 hours)**

Development of the clinical judgment skills necessary for the baccalaureate nurse to care for adults experiencing complex illness in all environments is the focus of these courses. Pathophysiology content, pharmacology content, and physiological knowledge are integrated to approach complex illness using critical thinking skills to determine appropriate nursing interventions and develop evidence-based clinical judgments. Each course is a part of a three part series that covers a variety of complex illnesses. Prerequisite: Transition to Baccalaureate Nursing Practice & Health Assessment.

**NUR 414 Nursing Care of Women and Neonates (5 hours)**

This course examines theoretical and scientific knowledge required to provide nursing care to culturally diverse women and childbearing families. Women's health issues, including pathology of diseases specific to women, maternity care, and newborn care will be discussed. Health promotion, risk reduction, and disease prevention will be emphasized. The clinical component of this course focuses on nursing care of female clients. Students will gain experience in a variety of gynecologic and obstetric settings. Critical thinking and evidence-based practice will be emphasized. (3 hours class and 6 hours clinical per week.) Prerequisites: NUR 334, 341.

**NUR 417R Leadership and Management in Baccalaureate Nursing Practice (2 hours, 2 hour lab)**

This course examines the leadership styles utilized in baccalaureate nursing practice. Theories and skills utilized in leading and managing including prioritization and delegation, organizational structures, and legal and ethical issues will be examined. The impact of economics and regulations on leadership will be considered. Investigation of the impact of nursing leadership on interdisciplinary relationships and their effect on the outcomes of nursing care will be facilitated. The clinical component of this course focuses on baccalaureate nursing leadership and management roles in a variety of healthcare settings. Prerequisite: 300 level nursing courses.

**NUR 418 Nursing Care of Adults II (6 hours)**

This course is the second semester of a two semester series that examines theoretical and scientific knowledge necessary to care for culturally diverse adults. The physiologic pathology of selected diseases of adults, adaption to stressors, and the dysfunction of systems will be discussed. This course also includes a clinical component that focuses on nursing strategies utilized to promote restoration of health during illness of adults. Critical thinking and the development of evidence-based practice will be emphasized. (3 hours class and 9 hours clinical per week.) Prerequisites: NUR 334, 341.



**NUR 421R Clinical Reasoning Practicum/Capstone for Baccalaureate Nursing Practice (1 hr, 3 hr lab)**

The clinical reasoning practicum and capstone course will offer the student the opportunity to apply knowledge and skills obtained from the Physiological/Pathophysiological Basis for Complex Illness Nursing Care courses. A simulated clinical environment will offer clinical scenarios where the student will be expected to apply clinical reasoning skills that result in positive clinical outcomes. The capstone project concentrates on the application of strategic planning concepts to baccalaureate nursing practice. Emphasis will be placed on the development of critical thinking skills and research utilization to establish an evidenced based practice project. This course provides the student with an opportunity to integrate concepts learned throughout the RN-BSN curriculum. Prerequisite: Physiological/Pathophysiological Basis for Complex Illness Nursing Care I, II, III.

**NUR 422 Nursing Care of Critically Ill Adults (4 hours)**

This course is designed to introduce undergraduate nursing students to the Adult Acute Care/Critical Care practice setting across the health care continuum. Core content areas include nursing care for pathological conditions of the respiratory, cardiovascular, gastrointestinal, renal, endocrine, neurological, hematological, and immunological systems. Trauma, emergencies, and critical care practice issues such as palliative care, end of life care, and organ donation will also be discussed. The clinical component will provide the student with experiences in the critical care area. (2 hours class and 6 hours clinical per week.) Prerequisites: NUR 410, 414, 418.

**NUR 424 Capstone Practicum in Nursing (6 hours)**

This course provides the last semester nursing student with the opportunity to synthesize and apply nursing concepts. This course also contains a clinical practicum component based on the application of clinical decision-making in order to provide comprehensive nursing care to persons in inpatient or community settings. Students choose an area of interest and obtain clinical experience under the supervision of a preceptor. (2 hours class and 12 hours clinical per week.) Prerequisites: NUR 410, 414, 418. Students who earn a grade of “C” or higher are exempt from COE 401.

**NUR 430 Leadership and Management in Nursing (4 hours)**

This course examines the leadership styles utilized in nursing practice. Theories and skills in leading and managing including prioritization and delegation, organizational structures, and legal and ethical issues will be examined. The impact of economics, regulations and political influences on nursing will be explored. Investigation of the effect of interdisciplinary relationships on the outcomes of nursing care will be facilitated. The clinical component of this course focuses on nursing management roles in a variety of settings—allowing students to begin incorporation of knowledge obtained in this course into their practice. (2 hours class and 6 hours clinical per week) Students who earn a grade of “C” or higher are exempt from COE 401. Prerequisites: NUR 410, 414, 418.

**NUR 450 Issues in Health Care (1 hour)**

This course will focus on professional role development as well as beginning professional socialization. Current social, political, and economic issues that influence health care will be considered. Exploration of the nurse’s role within the current health care environment with regard to these evolving health care issues will be facilitated. Prerequisites: NUR 410, 414, 418.

**NUR 490 Special Topics (1-3 hours)**

A special course developed to afford learning experiences beyond courses in the curriculum. Topics for the course require approval of the Academic Dean.

**NUR 491 Nursing Care of Older Adults (2 Credit Hours)**

This course prepares the student as a generalist for entry level practice in nursing care of older adults. It will focus on nursing and aging theories, body systems' age-related changes, assessment skills and tools, ethical, cultural, pharmacological and nutritional considerations in the elderly population. In addition, this course will address application of the nursing process and the use of critical thinking skills in caring for the aged client. Various care settings and gerontological resources will be explored.

**NUR 499 Individual Study (1-3 hours)**

In-depth study of a subject of interest beyond courses in the curriculum. Prerequisite: Junior standing, approval of advisor and Academic Dean.

## ORGANIZATIONAL LEADERSHIP

**OL 1150 Business in a Changing World (3 hours)**

The course is an introduction to the business environment and overview of the functional areas of business including management, marketing, accounting, finance, and information systems.

**OL 1500 Professionalism in the Workplace (3 hours)**

Introduction to professional interaction in the workplace with an emphasis on effective communication with subordinates, peers, and supervisors. Students will understand the keys to developing and maintaining effective interpersonal relationships in the workplace.

**OL 3051 Introduction to Adult Online Learning (3 hours)**

This course is an introduction to learning in the on-line environment. Topics include the Learning Management System, Library Resources, and other support mechanisms within the program.

**OL 3100 Management (3 hours)**

Provides a general understanding of the managerial functions of planning, organizing, leading and controlling from the viewpoint and needs of the professional manager.

**OL 3210 Principles of Managerial Accounting (3 hours)**

This course is an introduction to concepts in accounting from the manager's perspective. Topics include cost-volume-profit analysis, costing and budgeting.

**OL 3225 Survey of Marketing (3 hours)**

Survey of Marketing introduces students to the nature, scope and economic importance of marketing. The 4 P's of marketing; product, price, promotion, and place will be discussed.

**OL 3230 Organizational Theory (3 hours)**

The course is an investigation of the theoretical models of organization and how organizations can be structured for maximum efficiency.

**OL 3240 Business Statistics (3 hours)**

The course introduces the basic statistical concepts needed in the business environment. The emphasis is on the use of statistical information.

**OL 3245 The Ethics of Business (3 hours)**

A study of theoretical and practical problems of moral conduct in the field of business. The course emphasizes both the philosophical foundations of ethical conduct and the practical problems encountered in the day-to-day conduct of business affairs.

**OL 3350 Leadership (3 hours)**

The course examines various theories of leadership as a managerial function on and from the perspective of personal development.

**OL 3355 Leadership in Today's World (3 hours)**

This course considers multiple facets of Leadership. It asks the question, "what is leadership?" and addresses common myths about leadership. Students will study the theories of leadership, Leadership behaviors and techniques, ethics and values in leadership, and consider gender and cultural influences on leadership.

**OL 3360 Managing Information Systems (3 hours)**

Managing Information Systems explores the relationship between hardware, software, systems, and humans in the organizational context.

**OL 3390 Organizational Analysis (3 hours)**

This course addresses contemporary challenges arising from managing organizations in the face of complex environmental conditions, new technological developments, and increasingly diverse workforces. It focuses on providing a systematic approach for analyzing, diagnosing, and responding to organizations problems. It also provides an opportunity for students to enhance their communication and writing skills.

**OL 4000 Understanding the Economics of Business (3 hours)**

This introductory course provides management students with basic tools to analyze a wide variety of economic problems.

**OL 4240 Strategic Management (3 hours)**

The course examines the development and deployment of strategy as a critical factor in organizational success.

**OL 4245 Human Resources (3 hours)**

This course examines the role of the human resource professional as a strategic partner in managing today's organizations. Key functions such as recruitment, selection, development, appraisal, retention, compensation, and labor relations are examined.

**OL 4300 Consumers and Marketing (3 hours)**

This course focuses on the examination and application of consumer behavior principles to the development and implementation of marketing strategies.

**OL 4705 Organizational Analysis II (3 hours)**

A continuation of OL 3390, this course is an independent project using the lessons learned in OL 3390. Students will identify a problem or an opportunity in their current or previous place of business. The student will research the issue, collect and analyze data, and make recommendations for correction or enhancement of the issue. A paper documenting the development of the project and examination of the findings is required.

## ORIENTATION

### **ORT 1000 Orientation (3 hours)**

This course is an orientation to the online learning environment including use of library and learning resources.

## PARTICIPATION

Note: Students must be members in good standing of an activity before registering for participation credit. In order to register for sports participation, students must meet NAIA eligibility regulations. One hour of credit of each sport participation per year is allowed, and credit is only given for a sport participation in the term in which it is offered on the academic schedule. Renaissance students must complete 24 hours per academic year and juniors and seniors must have a cumulative GPA 2.00 or above to register for any Renaissance course.

### **PAR 131 Basketball Participation (1 hour)**

May be repeated for credit. Pass/fail grade only.

### **PAR 132 Baseball Participation (1 hour)**

May be repeated for credit. Pass/fail grade only.

### **PAR 133 Golf Participation (1 hour)**

May be repeated for credit. Pass/fail grade only.

### **PAR 134 Volleyball Participation (1 hour)**

May be repeated for credit. Pass/fail grade only.

### **PAR 135 Softball Participation (1 hour)**

May be repeated for credit. Pass/fail grade only.

### **PAR 136 Football Participation (1 hour)**

May be repeated for credit. Pass/fail grade only.

### **PAR 137 Tennis Participation (1 hour)**

May be repeated for credit. Pass/fail grade only.

### **PAR 138 Track Participation (1 hour)**

May be repeated for credit. Pass/fail grade only.

### **PAR 139 Cheerleading Participation (1 hour)**

May be repeated for credit. Pass/fail grade only.

### **PAR 140 Soccer Participation (1 hour)**

May be repeated for credit. Pass/fail grade only.

### **PAR 141 Cross Country Participation (1 hour)**

May be repeated for credit. Pass/fail grade only.

**PAR 142 Bass Fishing (1 hour)**

May be repeated for credit. Pass/fail grade only.

**PAR 143 Bowling (1 hour)**

May be repeated for credit. Pass/fail grade only.

**PAR 144 Cheer Dance (1 hour)**

May be repeated for credit. Pass/fail grade only.

**PAR 145 In Line Hockey (1 hour)**

May be repeated for credit. Pass/fail grade only.

**PAR 146 Swimming (1 hour)**

May be repeated for credit. Pass/fail grade only.

**PAR 147 Shooting (1 hour)**

May be repeated for credit. Pass/fail grade only.

**PAR 149 Archery (1 hour)**

May be repeated for credit. Pass/fail grade only.

**PAR 150 Renaissance Choir Participation (1 hour)**

May be repeated for credit. Pass/fail grade only.

**PAR 151 Renaissance Band Participation (1 hour)**

May be repeated for credit. Pass/fail grade only.

**PAR 152 Renaissance Drama Participation (1 hour)**

May be repeated for credit. Pass/fail grade only.

**PAR 153 Renaissance Technical Participation (1 hour)**

May be repeated for credit. Pass/fail grade only.

**PAR 160 Legacy Character Interpretation Program Participation**

(1 hour) May be repeated for credit. Pass/fail grade only.

## **PHILOSOPHY**

**PHI 211 Introduction to Philosophy (3 hours)**

Problems in ethics, metaphysics, and epistemology.

**PHI 311 History of Philosophy I (3 hours)**

Developments in philosophical thought from Thales through the Middle Ages. Prerequisite: PHI 211 or permission of instructor. Prerequisite: PHI 211 or permission of instructor.

**PHI 312 History of Philosophy II (3 hours)**

Developments in philosophical thought from the Renaissance to the present. Prerequisite: PHI 211 or permission of instructor. Prerequisite: PHI 211 or permission of instructor.

**PHI 313 Ethics (3 hours)**

Contrasting viewpoints concerning contemporary ethical issues such as war and peace, economic justice, and sexual morality.

**PHI 411 Eastern Thought (3 hours)**

Hinduism, Buddhism, Confucianism, Taoism, and Islam. Same as REL 411.

**PHI 412 Social Philosophy (3 hours)**

Values and norms which underline the social process. Impact of various philosophies on social organization. Topics include classical realism, positivism, liberalism, utilitarianism, idealism, communism, pragmatism, and existentialism. Same as SOC 412.

## **PHYSICAL EDUCATION**

**PED 100 Martial Arts I (1 hour)**

This course emphasizes the beginning physical and mental skills utilized in the martial arts. Uniform fee.

**PED 101 Martial Arts II (1 hour)**

A continuation of PED 100. This course provides intermediate and advanced martial arts development. Prerequisite: PED 100 or equivalent skill.

**PED 105 Aqua Aerobics (1 hour)**

Opportunity for organized physical activity during college. Acquisition of knowledge and skills for lifelong physical activity; appreciation of knowledge and skills for lifelong physical activity; appreciation of the physical, social, and emotional benefits of sport, recreation, and exercise. Rules, basic skills, active participation, and regular attendance are stressed. Meets two hours per week.

**PED 106 Weight Training and Management (1 hour)**

Opportunity for organized physical activity during college. Acquisition of knowledge and skills for lifelong physical activity; appreciation of knowledge and skills for lifelong physical activity; appreciation of the physical, social, and emotional benefits of sport, recreation, and exercise. Rules, basic skills, active participation, and regular attendance are stressed. Meets two hours per week.

**PED 108 Fitness for Health (1 hour)**

Opportunity for organized physical activity during college. Acquisition of knowledge and skills for lifelong physical activity; appreciation of knowledge and skills for lifelong physical activity; appreciation of the physical, social, and emotional benefits of sport, recreation, and exercise. Rules, basic skills, active participation, and regular attendance are stressed. Meets two hours per week.

**PED 112 Beginning Tennis (1 hour)**

Opportunity for organized physical activity during college. Acquisition of knowledge and skills for lifelong physical activity; appreciation of knowledge and skills for lifelong physical activity; appreciation of the physical, social, and emotional benefits of sport, recreation, and exercise. Rules, basic skills, active participation, and regular attendance are stressed. Meets two hours per week.

**PED 113 Basketball (1 hour)**

Opportunity for organized physical activity during college. Acquisition of knowledge and skills for lifelong physical activity; appreciation of knowledge and skills for lifelong physical activity; appreciation of the physical, social, and emotional benefits of sport, recreation, and exercise. Rules, basic skills, active participation, and regular attendance are stressed. Meets two hours per week.

**PED 114 Volleyball (1 hour)**

Opportunity for organized physical activity during college. Acquisition of knowledge and skills for lifelong physical activity; appreciation of knowledge and skills for lifelong physical activity; appreciation of the physical, social, and emotional benefits of sport, recreation, and exercise. Rules, basic skills, active participation, and regular attendance are stressed. Meets two hours per week.

**PED 115 Softball (1 hour)**

Opportunity for organized physical activity during college. Acquisition of knowledge and skills for lifelong physical activity; appreciation of knowledge and skills for lifelong physical activity; appreciation of the physical, social, and emotional benefits of sport, recreation, and exercise. Rules, basic skills, active participation, and regular attendance are stressed. Meets two hours per week.

**PED 116 Golf (1 hour)**

Opportunity for organized physical activity during college. Acquisition of knowledge and skills for lifelong physical activity; appreciation of knowledge and skills for lifelong physical activity; appreciation of the physical, social, and emotional benefits of sport, recreation, and exercise. Rules, basic skills, active participation, and regular attendance are stressed. Meets two hours per week.

**PED 117 Aerobics (Walking/Running) (1 hour)**

Opportunity for organized physical activity during college. Acquisition of knowledge and skills for lifelong physical activity; appreciation of knowledge and skills for lifelong physical activity; appreciation of the physical, social, and emotional benefits of sport, recreation, and exercise. Rules, basic skills, active participation, and regular attendance are stressed. Meets two hours per week.

**PED 120 Intermediate Tennis (1 hour)**

Opportunity for organized physical activity during college. Acquisition of knowledge and skills for lifelong physical activity; appreciation of knowledge and skills for lifelong physical activity; appreciation of the physical, social, and emotional benefits of sport, recreation, and exercise. Rules, basic skills, active participation, and regular attendance are stressed. Meets two hours per week. Prerequisite: PED 112 or equivalent skill.

**PED 121 Advanced Tennis (1 hour)**

Opportunity for organized physical activity during college. Acquisition of knowledge and skills for lifelong physical activity; appreciation of knowledge and skills for lifelong physical activity; appreciation of the physical, social, and emotional benefits of sport, recreation, and exercise. Rules, basic skills, active participation, and regular attendance are stressed. Meets two hours per week.



**PED 122 Beginning Swimming (1 hour)**

Opportunity for organized physical activity during college. Acquisition of knowledge and skills for lifelong physical activity; appreciation of knowledge and skills for lifelong physical activity; appreciation of the physical, social, and emotional benefits of sport, recreation, and exercise. Rules, basic skills, active participation, and regular attendance are stressed. Meets two hours per week.

**PED 123 Intermediate Swimming (1 hour)**

Opportunity for organized physical activity during college. Acquisition of knowledge and skills for lifelong physical activity; appreciation of knowledge and skills for lifelong physical activity; appreciation of the physical, social, and emotional benefits of sport, recreation, and exercise. Rules, basic skills, active participation, and regular attendance are stressed. Meets two hours per week. Prerequisite: PED 122 or equivalent skill.

**PED 124 Advanced Swimming (1 hour)**

Opportunity for organized physical activity during college. Acquisition of knowledge and skills for lifelong physical activity; appreciation of knowledge and skills for lifelong physical activity; appreciation of the physical, social, and emotional benefits of sport, recreation, and exercise. Rules, basic skills, active participation, and regular attendance are stressed. Meets two hours per week. Prerequisite: PED 123 or equivalent skill.

**PED 129 Body Sculpture (1 hour)**

Opportunity for organized physical activity during college. Acquisition of knowledge and skills for lifelong physical activity; appreciation of knowledge and skills for lifelong physical activity; appreciation of the physical, social, and emotional benefits of sport, recreation, and exercise. Rules, basic skills, active participation, and regular attendance are stressed. Meets two hours per week.

**PED 211 Foundations of Health and Physical Education (3 hours)**

Introduction to fields of health and physical education designed to give an orientation to the historical background, objectives, and philosophical foundations and their relationships to education.

**PED 213 Rhythms (1 hour)**

Rhythmic activities involving locomotion, non-locomotion, and manipulation of objects. Relationships between body movements and rhythmic accompaniment. Connection between movement (physical activity) and overall wellness. Micro-teaching. Prerequisite: PED 211.

**PED 221 Principles of Health and Fitness Instruction (2 hours)**

This course will acquaint the student with methods of leading several modes of group exercise settings with apparently healthy individuals and those with health challenges who are able to exercise independently to enhance quality of life, improve health-related physical fitness, manage health risks, and promote lasting health behavior changes. Topics covered will include leadership techniques, class organization choreography and music selection, use of equipment, environmental considerations, and safety for both land and water based group exercise classes. Leadership practice and demonstrations are required. Prerequisite: PED 211

**PED 311 Fundamentals and Techniques of Football (3 hours)**

Fundamentals and techniques of football, history, coaching theories of offense and defense, team organization, drills, conditioning, weight programs, and off-season duties.

**PED 312 Fundamentals and Techniques of Basketball (3 hours)**

Fundamentals and techniques of basketball, history, coaching and teaching methods, drills, conditioning, development of team offense and defense, team and class organization, off-season duties.

**PED 314 Fundamentals and Techniques of Baseball (3 hours)**

Fundamentals, techniques, and history of coaching baseball. Coaching methods, team organization, drills, equipment, and conditioning.

**PED 320 Human Anatomy (3 hours)**

This course will focus on the structure of the systems of the human body, emphasizing those systems with direct and major roles in exercise performance, namely the muscular, skeletal, nervous, endocrine, cardiovascular, and respiratory systems. Same as HEA 320. Prerequisite: BIO 100.

**PED 321 Kinesiology (3 hours)**

Science of human motion with emphasis on analysis of motor skills. Preventative and rehabilitative exercise methods, application of physical laws, classes of levers, origins and insertions of muscles, and principles underlying movement in range of flexibility, strength, and endurance. Prerequisite: HEA/PED 320 or BIO 309, 310.

**PED 322 Physiology of Exercise (3 hours)**

Functions of the systems of the human body related to muscular activity. Emphasis on cardio respiratory function, physical fitness testing, nutrition for athletes, effects of anabolic steroids and other substances, and activity in extremes of temperature and altitude. Prerequisite: HEA/PED 320, 321 or BIO 309, 310, and PED 321.

**PED 331 Tests and Measurements in Physical Education (3 hours)**

Statistical techniques, motor ability tests, motor fitness tests, physical fitness tests, and skills tests applicable to physical education. Includes theory and practice of test administration and application of results obtained. Prerequisite/Co-requisite: MTH 122.

**PED 332 Principles of Motor Development (3 hours)**

Methods in teaching social, folk, and rhythmic games to students of all ages. Understanding of motor development in children. Utilization of rhythmic games to meet developmental and academic goals. Lesson planning. Microteaching.

**PED 333 Adapted Physical Education (3 hours)**

Current trend and laws in related to special education; study of specific handicaps. Participation in motor activities which benefit balance, hand-eye coordination, special concepts.

**PED 341 Techniques of Strength and Conditioning (2 hours)**

This course is designed to prepare students to assess, develop, implement and evaluate resistive exercise programs for persons from a variety of age groups. Content is presented regarding the National Strength and Conditioning Association's (NSCA) and/or the American College of Sports Medicine (ACSM) guidelines for developing muscular strength and endurance programs and the relationships of strength training to a total fitness program. Prerequisites: HEA 312, PED 211.

**PED 343 Methods of Teaching Individual Sports (3 hours)**

This course is an examination of the theory and practice of teaching individual sports. This course focuses primarily on pedagogical knowledge that addresses planning, instructional skills involved in teaching and coaching individual sports including golf, track and field, and racquet sports. Students will be provided with the necessary building blocks to support the Tennessee Curriculum Standards. Prerequisite: PED 211 and open only to Physical Education majors.

**PED 345 Methods of Teaching Team Sports (3 hours)**

This course is an examination of the theory and practice of teaching team sports. This course focuses primarily on pedagogical knowledge that addresses planning instructional skills involved in teaching and coaching team sports including basketball, volleyball, soccer, football, and softball/ baseball. Students will be provided with the necessary building blocks to support the Tennessee Curriculum Standards. Prerequisite: PED 211 and open only to Physical Education majors.

**PED 399, 499 Individual Study (1-3 hours)**

In-depth study of a subject of interest beyond courses in the curriculum. Prerequisites: Junior standing, approval of advisor and Academic Dean.

**PED 401, 402 Senior Tutorial in Physical Education (1 hours)**

Learning experiences while assisting in organization of instruction of various physical education activities. Two periods required each week.

**PED 408 Teaching Physical Education (K-12) (3 hours)**

Curriculum planning, teaching, and evaluation practices for grades K-12 physical education; emphasis on characteristics and needs for all students including diversity in race/ethnicity, language, or special needs through a variety of instructional techniques including reading and mathematics skills in the content area. Unit and lesson development using Tennessee and national standards; micro-teaching. Prerequisites: EDU 335, TEP 1

**PED 413 Organization and Administration of Health and Physical Education (3 hours)**

Philosophy, objectives, and values of health and physical education program from elementary level through college. Types of administrators, administrative skills, budget making, staff selection, intramural and interscholastic athletic programs, legal liability, purchase and care of equipment, facilities, and curriculum design.

**PED 415 Psychology of Coaching (3 hours)**

Theory and practices of coaches; responses of athletes to various coaching methods. Development of personal philosophy of coaching, coaching styles, and personalities; adjusting coaching techniques to various age groups; styles of communication; preventing coaching burnout; ethics; and developing team cohesion.

**PED 416 Sports Law (3 hours)**

Sports, the law, and due process. Negligence, defenses, liability, and tort. Includes sports litigation, warnings, waivers, sports violence, athletes' rights, contractual agreements and disputes, agents and arbitration, drug testing in sports, product and facility design and liability, legal responsibilities in activity and fitness centers, high risk activities and other trends and issues.

**PED 423 Gerontology (2 hours)**

A survey on aging and its effects on participation in physical activities and recreational pursuits as well as the physiological, psychological and socioeconomic issues affecting the fitness levels of older adults.

**PED 425 Psychology of Sport and Exercise (3 hours)**

This course provides a learner with a plethora of learning experiences in goals, concepts, research development, and career options in the field of sport and exercise psychology. The course further explores: the role of psychology in competitive and recreational sport/exercise participation; psychological techniques that aid performance of the athletes and recreational exercisers; the role of personality, motivation, and arousal in influencing the exercise patterns and choice of physical activity/sport; youth sport and especially the choice to participate in sport; longevity, burnout, early specialization, performance enhancing drugs, and the influence by the parents and coaches.

**PED 460 Internship (1-12 hours)**

Approved work experience in a physical education environment. Prerequisites: Consent of advisor and Academic Dean

**PED 490 Special Topics (1-3 hours)**

A special course developed to afford learning experiences beyond courses in the curriculum. Topics for the course require approval of the Academic Dean.

**PED 495 Honors Project (4 hours)**

Open to seniors by invitation only.

## PHYSICS

**PHY 105, 105L Concepts in Physics (3, 1 hours)**

A one-semester survey of elementary physics for liberal arts and other non-science students with minimal background in mathematics. Emphasis is on an intuitive, discovery approach to both classical and modern physics. Discussion, demonstrations. Does not fulfill requirements for major in natural science disciplines. Laboratory. Prerequisite: MTH 111.

**PHY 107, 107L Physics of Sound (3, 1 hours)**

This course is designed for music majors or other non-science students with a minimal background in mathematics. Topics include: measurements and units, mechanics, waves and wave motion, simple harmonic motion, musical scales, and electricity. Laboratory. Prerequisite: MTH 111.

**PHY 211, 211L General Physics I (3, 1 hours)**

Designed for liberal arts, biology, and health career students. Topics include mechanics, vector forces, conservation laws of momentum and energy, kinematics, & wave motion. Laboratory. Prerequisite: MTH 111, 123.

**PHY 212, 212L General Physics II (3, 1 hours)**

Continuation of PHY 211. Topics include rotational motion, thermodynamics, electricity and magnetism, optics, and nuclear topics. Laboratory. Prerequisite: PHY 211.

**PHY 215 Digital Electronics (3 hours)**

A course designed to introduce the student to number systems, logic circuits, counters, registers, memory devices, combination logic circuits, Boolean. Prerequisite: PHY 211.

**PHY 216 AC-DC Circuits (3 hours)**

Designed to familiarize the student with advanced principles and theories associated with AC and DC circuits. Includes the study of electronic circuits, electrical laws and formulae, and the use of test equipment in performing analysis of electrical circuits. Prerequisite: PHY 211, 215.

**PHY 218, 218L Physics with Calculus, Part I (3, 1 hours).**

Calculus based course designed for mathematics and chemistry majors. Topics include motion: kinematics in one, two or three dimensions, vectors, dynamics, circular and rotational motion, conservation of energy and momentum, fluids, wave motion, sound, heat, and laws of thermodynamics. Problem solving requires the use of differential and integral calculus. Laboratory. Prerequisite: Trigonometry. Co-requisite: MTH 230.

**PHY 219, 219L Physics with Calculus, Part II (3, 1 hours).**

Continuation of PHY 218. Topics include: electricity, magnetism, electromagnetic induction and waves, light, special theory of relativity, and quantum mechanics. Problem solving requires the use of differential and integral calculus. Laboratory. Prerequisite: PHY 218. Co-requisite: MTH 231.

**PHY 224 Mechanics (Statics) (3 hours)**

General study of force systems in two and three dimensions. Equilibrium principles developed. Vector algebra used on three dimensional systems. Centroids, second moments, and stress/strain relationships included. Prerequisites: MTH 231 and PHY 218/218L.

**PHY 225 Mechanics (Dynamics) (3 hours)**

Continuation of PHY 224. Topics include principles of kinematics and particle kinematics with attention to engineering applications. Vector methods used. Prerequisites: PHY 224 and MTH 231.

**PHY 226 Strength of Materials (3 hours)**

Concepts of stress and strain; stress-strain relations; applications including axially loaded members, torsion of circular shafts, bending of beams. Shear and moment diagrams, combined stress. Prerequisite: PHY 219 and PHY 224.

**PHY 425 Modern Physics I (3 hours)**

A calculus based course in physics principles discovered since 1900 AD. Topics will include relativity, nature of matter and light, and atomic structure. Prerequisite: PHY 219/219L.

**PHY 426 Modern Physics II (3 hours)**

A calculus based course in physics principles discovered since 1900 AD. Topics will include nuclear structure and reactions, elementary particles, and nuclear radiation. Prerequisites: PHY 219/219L and PHY 425.

**PHY 460 Internship (1-12 Hours)**

Approved work experience in a science-oriented environment. Approval of Advisor and Academic Dean required.

**PHY 490 Special Topics (1-3 hours)**

A special course developed to afford learning experiences beyond courses in the curriculum. Topics for the course require approval of the Academic Dean.

**PHY 299, 399, 499 Individual Study (1-3 hours)**

In-depth study of a subject of interest beyond courses in the curriculum. Prerequisites: Approval of advisor and Academic Dean.

## PSYCHOLOGY

### **PSY 1050 – Principles of Psychology (3 hours)**

This course is an overview of different perspectives from which psychologists try to understand human behavior and psychological disorders. Particular emphasis will be on investigating the mind, such as learning how the mind stores and retrieves information and how the mind responds to stress.

### **PSY 111 Introduction to Psychology I (3 hours)**

Introduction to the scientific study of human behavior with attention to learning, thinking, emotional life, and individual differences.

### **PSY 210 Introduction to Psychology II (3 hours)**

Continuation of PSY 111. Includes perception, conditioning, cognitive processes, memory, language, therapy, and major theoretical approaches. Prerequisite: PSY 111.

### **PSY 211 Human Growth and Development (3 hours)**

Focus on child, adolescent, and adult growth and development across a lifespan. Typical language, social, emotional, cognitive, and physical development will be emphasized. Common problems in these areas will be discussed. Prerequisite: PSY 111 (waived for education minors, but additional readings required).

### **PSY 303 Social Psychology (3 hours)**

This course focuses on how social interactions and situations influence our thoughts, feelings, and behavior. Theories and research on such topics as attitude change, persuasion, conformity, prejudice, interpersonal attraction, altruism, and aggression will be addressed. Prerequisites: PSY 111 and 210 with a grade of C or higher.

### **PSY 313 Psychological Statistics (3 hours)**

Descriptive statistics and inferential statistics. Application of statistical techniques to the analysis and interpretation of psychological data. Prerequisite: PSY 210 or 211 or junior standing.

### **PSY 314 Counseling Theories (3 hours)**

Introduction to counseling theories and their implications for practice. Prerequisite: PSY 111.

### **PSY 316 Positive Psychology (3 hours)**

A scientific study of the promotion of psychological well-being. Topics will include: happiness, strengths and virtues, coping, resilience, intrinsic motivation, flow, spirituality and religiosity, interventions for well-being, psychoneuroimmunology, optimism, creativity, wisdom, and authenticity. Personal application exercises are required. Same as HEA 316. Prerequisite: PSY 111.

### **PSY 320 Industrial/Organizational Psychology (3 hours)**

This course takes a real world approach to the work environment. It examines the complexity of work, including a multicultural component and how the now global nature of organizations is affecting business practices. Performance appraisal and management are explored as restorative factors in the day-to-day life of organizational functioning. In addition, this course examines training from both employee and employer perspectives with transfer of skill acquisition and increased productivity as measures of success. Prerequisite: PSY 211 with a grade of C or higher.

**PSY 322 Contemporary Issues in Psychology (3 hours)**

Applying and interviewing for jobs and graduate school, professional development, APA ethics, prevention programming, current job market at bachelor's level, the problem solving process, and grant writing will be covered. Students will complete a project focused on applying psychology in the context of rural West Tennessee. Prerequisite: PSY 111, PSY 210. Students who earn a grade of C or higher are exempt from COE 401.

**PSY 330 Research Methods (3 hours)**

Introduction and examination of the strategies and methods of social science inquiry presented will be: problem formation and hypothesis research design, data collection, basic analysis and interpretation, reporting and utilization of research and ethics. Experience in designing and conducting research projects. Prerequisites/Co-requisites: PSY 111, MTH 111, and MTH 202 or PSY 313.

**PSY 399, 499 Individual Study (1-3 hours)**

In-depth study of a subject of interest beyond courses in the curriculum. Prerequisites: Junior standing, approval of advisor and Academic Dean.

**PSY 411 Special Studies (3 hours)**

Selected topics will be studied in a seminar setting. Topics may include the following: Autism, cultural psychology, emerging evidence-based intervention and prevention, biological psychology, psychology of religion, African American psychology, advanced psychopathology, and social psychology. Prerequisite: PSY 111, 211.

**PSY 412 Psychological Measurements (3 hours)**

Theory, application, and problems of testing in school and clinical settings. Student will administer selected tests. Prerequisite: PSY 313.

**PSY 413 Abnormal Psychology (3 hours)**

Historical and contemporary consideration of abnormality and pathology. Etiology, nosology, and symptomatology of maladjustment. Prerequisite: PSY 210 or 211.

**PSY 414 Personality Theories (3 hours)**

Theories in personality and psychotherapy of Freud, Adler, Jung, Sullivan, Skinner, Dollard, Rogers, Kelly, and others. Prerequisite: PSY 210 or junior standing.

**PSY 415 Cognitive Psychology (3 hours)**

An introduction to the study of mental processes. Topics to be covered include a variety of cognitive processes including, but not limited to, learning, memory, perception, language, attention, and problem solving. Prerequisite: PSY 330 with a grade of C or higher.

**PSY 420 Human Behavior in Social Environment (3 hours)**

Exploration of how individuals are influenced by the social environment. The formation of behavior of individuals, interpersonal relationships, and groups observed for the purpose of developing the ability to explain and analyze social systems. Opportunity to integrate and apply knowledge to the human service practices. Topics to include: social perception, interaction, influence, and application. Prerequisites: SOC 111, PSY 111, 211. Same as HUS 420.



**PSY 433 Research Practicum (3 hours)**

Student initiated social science based research project culminating in a publication worthy research paper. Research topic must be approved by advisor, all psychology faculty, Social Science, Academic Policy Committee (acting as Research Review Board), and Academic Dean. May be repeated for credit. Prerequisite: PSY 313, 330.

**PSY 460 Internship (1-12 hours)**

Approved work experience in a psychologically-oriented environment. Prerequisite: Approval of advisor, all psychology faculty, Social Science, and Academic Dean.

**PSY 490 Special Topics (1-3 hours)**

A special course developed to afford learning experiences beyond courses in the curriculum. Topics for the course require approval of the Academic Dean.

**PSY 495 Honors Project (4 hours)**

Open to seniors by invitation only.

## RELIGION

**REL 107 Old Testament Survey (3 hours)**

An introductory course on the context and central points of the Old Testament.

**REL 108 New Testament Survey (3 hours)**

An introductory course on the context and central points of the New Testament.

**REL 121 Christianity in the Modern World**

This course is an examination of the Christian point of view as compared to the intellectual and cultural movements of modern times.

**REL 1010 Introduction to the Old Testament (3 hours)**

An introductory course on the context and central points of the Old Testament.

**REL 1020 Introduction to the New Testament (3 hours)**

An introduction to the history and themes of the New Testament.

**REL 111 Understanding the Old Testament (3 hours)**

An introduction to the history and themes of the Old Testament.

**REL 112 Understanding the New Testament (3 hours)**

Content and interpretation of selected portions of the New Testament.

**REL 113 Christian Worldview (3 hours)**

An introduction to the Christian worldview and an examination of the philosophical and theological foundations for a Christian view of reality, knowledge, ethics, and culture. The course compares and contrasts the Christian worldview with other dominant worldviews in the modern era such as naturalism, humanism, Atheism, and transcendentalism.

**REL 1150 Selected Books of the Bible (3 hours)**

This course is a survey of selected books of the old and new testament of the Bible.

**REL 1200 Christians and the World**

This course compares the Christian worldview to the developing questions, issues, trends and concerns of modern culture. It contrasts the Christian view of reality, knowledge, ethics, and culture to those of dominant worldviews which include naturalism, humanism, atheism, and transcendentalism.

**REL 2050 Global Religions (3 hours)**

This course examines most of the major religious traditions of the world in terms of their history, worldviews, practices, goals and ideals.

**REL 210-410 The Christian Ministry (1 hour)**

Practical and theological basis for the practice of ministry in the local church with special emphasis on leading of worship, ministerial etiquette, parliamentary procedures, church policy, and preparation for ordination. May be repeated for credit. Pass/Fail grade only. Class standing at enrollment determines level.

**REL 212 The Church's Ministry to Age Groups (3 hours)**

Characteristics of persons at different stages of development; principles, methods, and materials for guiding religious growth.

**REL 224 Christian Theology I (3 hours)**

A study of the Christian Doctrines of Revelation, God and Creation/Providence in light of their development and ongoing significance. This course will survey the historical development and ongoing reflection of these doctrines within the Christian community as they have been rooted in the Bible, formulated by key theologians, and summarized in the Church's language and confessions. Prerequisites: REL 111 or 112 and REL 113.

**REL 225 Christian Theology II (3 hours)**

A study of the Christian doctrines of humanity and sin, Christology, Ecclesiology (the Church) in light of their development and ongoing significance. This course will survey the historical development and ongoing reflection of these doctrines within the Christian community as they have been rooted in the Bible, formulated by key theologians, and summarized in the Church's language and confessions.

**REL 2490 Introduction to the Philosophy of Religion (3 hours)**

This course will examine critically definitions, assumptions, and arguments central to religion. Topics may include interpreting the nature of religion, arguments for and against the existence of God, the relation between theology and philosophy, the relation between God and the world, paganism, the problem of evil, and the nature of religious language and experience.

**REL 255 Philosophy of Religion (3 hours)**

Philosophy of Religion is an introduction to the field of religion, not an exhaustive study. It is designed to start a journey of discovery, revealing key signposts along the way. In general, theological claims made over two millennia primarily by Christian scholars will be our focus although many of the issues considered relate, as well, to the other two ethical monotheistic (sometimes called Abrahamic) religions, Judaism and Islam. These traditions have been selected because they have been central to the development of Western civilization, and because many of the significant issues to be treated here are embedded in these traditions. This course will stretch your mind, cause you to think about religion in new and revealing terms, and, perhaps, help you resolve issues that you may have encountered in life and previous study. Many times, it strengthens religious commitments.

**REL 301 Foundations of Christian Education (3 hours)**

This course is an exciting and deep look at the historical foundation, development, and implications of Christian Education in America. Christian education is the foundation of evangelism, because it trains men and women to administer and lead people to Christ. You will be exposed to specialized ministries, such as counseling, Single Adult Ministries, Recovery Ministries, and Christian Camping Ministries for youth and adults. This course is a must for those who work in their church as a volunteer or paid employee. You will learn how to relate generationally to the Builder, Boomer, Busters, and Bridges as you work with children and adults of all ages.

**REL 302 Christian Education Curriculum (3 hours)**

Program development and materials for the church's total ministry of Christian education with special emphasis on work with adults and families.

**REL 303 Christian Education with Children (3 hours)**

The church's ministry of Christian education for children, birth through fifth grade. Topics include: appropriate expectations; development of cognitive skills; individuation; socialization; appropriation of age-based content; effect of physical development. Prerequisites: REL 212 and 301.

**REL 304 Christian Education with Youth (3 hours)**

The church's ministry of Christian education for youth, ages 12-18. Topics include: early adolescence, late adolescence, individuation, development of critical analysis of beliefs and practices. Prerequisites: REL 212 and 301.

**REL 305 Christian Education with Adults (3 hours)**

The church's ministry of Christian education for adults. Topics include: generational challenges and issues; necessity of relevant and applicable approaches; shifting nature of family structures; expansion of service opportunities. Prerequisites: REL 212 and 301.

**REL 311 Prophets of Israel (3 hours)**

Prophetic literature of the Old Testament. Prerequisite: REL 111.

**REL 313 The Gospels (3 hours)**

Interpretations of Jesus and His ministry found in Matthew, Mark, Luke, and John. Prerequisite: REL 112.

**REL 314 New Testament Epistles (3 hours)**

Selected letters of Paul and later New Testament writings. Prerequisite: REL 112.

**REL 315 Basic Christian Beliefs (3 hours)**

Major doctrines of the Christian faith and their various interpretations.

**REL 316 Leadership in Christian Ministries (3 hours)**

Review and analysis of contemporary models of leadership within a Christian context with an emphasis upon means of discovering individual styles. Prerequisite: REL 111 and 112.

**REL 318 Introduction to Homiletics (3 hours)**

The examination of theologies and methods of preparing sermons from Biblical texts. Hermeneutical approaches, oral/aural skills, rhetorical strategies, narrative and cognitive logic. In class preaching required. Prerequisites: REL 111, 112, and SAT 110.

**REL 320 History of Christianity I (3 hours)**

Main events in history of Christianity from the first Christian century to 1500. Major trends, leaders and movements.

**REL 321 History of Christianity II (3 hours)**

Main events in history of Christianity from the Protestant Reformation to the present. Major trends, leaders, and ideas from Protestantism and Catholicism.

**REL 323 Torah and Wisdom (3 hours)**

This course introduces students to the Torah and the Wisdom literature of the Old Testament. It engages the philosophy of the ancient Israelites and the Biblical narrative of Israel's formation.

**REL 325 Book of Romans (3 hours)**

An in-depth study of the Book of Romans. Since Romans is considered by many to be the most doctrinal book in the Bible, its usefulness in studying essential Christian doctrine is evident. Romans provides the learner a systematic outline of the basic tenets of the Christian faith, particularly all the facets of the doctrine of salvation.

**REL 326 Christian Theology III (3 hours)**

A study of the Christian life, of the role of Christianity in relation to other world religions, and of the doctrine of eschatology (last things) in light of their development and ongoing significance. This course will survey the historical development and ongoing reflection of these doctrines within the Christian community as they have been rooted in the Bible, formulated by key theologians, and summarized in the Church's language and confessions. Prerequisites: REL 111 or 112; REL 113; REL 224 or 225

**REL 398, 498 Seminar in Christian Studies (1 hour)**

An in-depth examination of current topics of interest in Christian studies. Format will include discussion groups, readings of current literature, and occasional speakers from within or without the Bethel community. Prerequisite: approval of advisor.

**REL 399, 499 Individual Study (1-3 hours)**

In-depth study of a subject of interest beyond courses in the curriculum. Prerequisite: Junior standing and approval of advisor and Academic Dean.

**REL 401 Church Music (3 hours)**

Music in worship, Christian education, and the life of the church with particular emphasis on hymns and the planning of worship services. Same as MUS 401.

**REL 409 Christian Worship (3 hours)**

A study of the biblical, historical, and theological aspects of Christian worship with an emphasis on planning worship. Prerequisites: REL 111 and 112.

**REL 411 Eastern Thought (3 hours)**

Hinduism, Confucianism, Taoism, and Islam. Same as PHI 411.

**REL 413 Sociology of Religion (3 hours)**

Sociological processes and religion; civil religion, cult-church development, individual and corporate religion as social institutions. Religion as a social force. Same as SOC 413.

**REL 460 Internship (1-12 hours)**

Approved work experience drawing upon knowledge of religion/Christian education. Prerequisites: Consent of advisor and senior standing.

**REL 490 Special Topics (1-3 hours)**

A special course developed to afford learning experiences beyond courses in the curriculum. Topics for the course require approval of the Academic Dean.

**REL 495 Honors Project (4 hours)**

Open to seniors by invitation only.

## SCIENCE

**SCI 1000 Introduction to Science (3 hours)**

This course is an introduction to the basic principles of earth science, physics and chemistry. The course will prepare students to use scientific and quantitative reasoning to make informed decisions about topics related to science. Topics include the development of scientific thinking, the scientific method, the relationships among the various sciences.

**SCI 100, 100L Forensic Science (3, 1 hours)**

Introduction to the role of science and the law through an exploration of actual cases. Focuses on the benefits and limitations of technologies on which police rely to apprehend criminal perpetrators and to link them to crime scenes. Emphasizes selected aspects such as ABO blood groups; DNA fingerprinting; crime scene preservation and testing for the presence of blood, explosives, and gunshot residue at the scene; forensic anthropology; and laboratory investigations of forensic aspects of physical and chemical evidence, questioned documents, poisons, and drugs of abuse.

**SCI 101, 101L Science and Humanity (3, 1 hours)**

Threshold course in science. Emphasizes selected milestones in history of science and technology and the philosophical foundations of the development of science. Examples will be drawn from astronomy, biology, chemistry, geology, mathematics, and physics. Laboratory.

**SCI 102 Society and Science (3 hours)**

This course explores the relationships between science, contemporary culture, and religious perspectives.

**SCI 1100 Basics in Environmental Science (3 hours)**

An introductory course to the study of environmental issues. A general understanding of application of science to solution of contemporary environmental problems.

**SCI 111, 111L Earth and Space Science (3, 1 hours)**

Topics include astronomy, space exploration, formation of the earth, general and historical geology, mineralogy, weather and climate, oceanography, and natural resource conservation. Laboratory experiences include computer simulations, field trips, and telescopic observations. Laboratory.

**SCI 112 Introduction to Environmental Science (3 hours)**

This course looks at current issues in environmental science. It provides a basic understanding of the application of science to the environmental problems we face in the world.

**SCI 115 Environmental Science (3 hours)**

Investigation of the interrelationships between the biotic and abiotic environments which form the natural world. Topics include structure and function of ecosystems, the causes and consequences of human population growth, environmental pollution, and the importance of balancing utilization and conservation of natural resources.

**SCI 115L Environmental Science Lab (1 hour)**

Practical learning activities examining local communities, developing awareness of human impacts on environment, and exploration of environmental concerns and solutions. Co-requisite: SCI 115.

**SCI 300 Environmental Ethics (3 hours)**

A study of the various ethical issues arising as humans interact with the environment. The class will examine classic cases in environmental ethics, survey local environmental issues, and develop an environmental ethic in the context of environmental policy issues. Same as BIO 300. Prerequisites: BIO 112 or SCI 115.

**SCI 415 Issues in Environmental Studies (3 hours)**

A detailed examination of the scientific dimensions of selected environmental issues with discussion of the economic, political, and ethical aspects of those issues. Prerequisites: SCI 115 and 16 hours BIO and CHE courses.

**SCI 490 Special Topics (1-3 hours)**

A special course developed to afford learning experiences beyond courses in the curriculum. Topics for the course require approval of the Academic Dean.

**SCI 499 Individual Study (1-3 hours)**

In-depth study of a subject of interest beyond courses in the curriculum. Prerequisites: Junior standing, approval of advisor and Academic Dean.

## SOCIOLOGY

### **SOC 111 Principles of Sociology (3 hours)**

Analysis of the basic sociological perspectives, principles, and methods used in the systematic study of social behavior. Emphasis on social institutions, social class structure, culture, socialization, personality development, crime and deviance, and social control as each interrelates in traditional and industrial societies. Additional topics include the social institutions of family, religion, education, health care, criminal justice, governance, and economics.

### **SOC 209 The Study of Marriage and Family (3 hours)**

The course surveys issues related to marriage and family in contemporary society. Content includes the nature of relationships and crises such as divorce and family violence.

### **SOC 212 Marriage and Family (3 hours)**

The family as an institution; emphasis on vital issues of family formation, functions, and adjustment to social order. Appraisal of the family as an institution; adaptation required in second marriages, step-parenthood, and children of single parents or broken families. Same as HEA 212.

### **SOC 213 Social Issues in the Community and World (3 hours)**

An opportunity to critically examine a variety of current social issues facing the individual, the community, and the world. Causes, development, and particular emphasis on alternative/policy solutions. Same as HUS 213.

### **SOC 214 The Family (3 hours)**

The contemporary American family as a social institution; the societal and cross-cultural characteristics and dynamics that influence families; the family's relationship to other institutions; how families reinforce or change the society in which it is located; how the family operates as a systemic social organization; analysis of family roles; the nature and dynamics of marriage partner selections. Major problems facing contemporary families: premarital dynamics, family violence, dual careers, and divorce.

### **SOC 304 Crime and Criminology (3 hours)**

Basics of the criminal justice system to include criminals, courts, law enforcement, and corrections analyzed from the standpoint of major sociological theories. Topics include: crime causation, sociological aspects of types of offenders, techniques of measuring crime, treatment of criminals, crime prevention, social control, and the role of social movements in changing the normative boundaries of society. Prerequisite: SOC 111.

### **SOC 306 Anthropology (3 hours)**

Survey of physical and cultural anthropology. Special attention to human origins, cultural universality, cultural relativity, ethnology, and archaeology.

### **SOC 315 Social Gerontology (3 hours)**

Detailed introduction to the demographics of the aging population in the U.S. encompassing sociological, psychological, physiological, and social focuses. Prerequisite: SOC 111.

### **SOC 320 Race/Ethnic Relations (3 hours)**

Sociological study featuring ethnological characteristics and intergroup relationships of the dominant and subordinate ethnic groups that form American communities. Urban and rural communities examined as social systems with specific functions and interaction dynamics. Prerequisite: SOC 111. Same as HUS 320.



**SOC 321 Social Theories (3 hours)**

An examination of the social salt of the predominant theoretical approaches, e.g., functionalism, conflict theory, symbolic interactionism, exchange and rational-choice theories, and how they shape the construction of social reality. Prerequisite: SOC 111.

**SOC 322 Urban Sociology (3 hours)**

An examination of the economic, cultural, and political importance of cities in modern societies. Students will be exposed to basic concepts and research in urban sociology as well as the historical development of cities and contemporary changes in urban life. Prerequisite: SOC 111.

**SOC 323 Social Stratification (3 hours)**

An examination of the economic, social, and political impact of inequality and social stratification. Students will be exposed to current theoretical and empirical research related to social inequality in the U.S. and beyond and how such inequitable distribution of social resources (and sometimes basic necessities) is legitimized. Prerequisite: SOC 111.

**SOC 324 Gender Issues (3 hours)**

An examination of the economic, social, and political consequences of sexism and gender inequality in the U.S. Students will be exposed to basic concepts and research in feminist/womanist sociology. Prerequisite: SOC 111.

**SOC 342 Global Sociology (3 hours)**

This course examines social issues around the world and their relationship to globalization. Specifically, the course illuminates how systems of global production tie us, as consumers, to issues of labor rights, social justice, and environmental sustainability in other parts of the world. The global garment industry is used to illustrate course concepts and connect the individual to the global. Prerequisite: SOC 111.

**SOC 399, 499 Individual Study (1-3 hours)**

In-depth study of a subject of interest beyond the courses in the curriculum. Prerequisites: Junior standing, approval of advisor and Academic Dean.

**SOC 412 Social Philosophy (3 hours)**

Values and norms which underlie the social process. Impact of various philosophies on social organization. Topics include classical realism, positivism, liberalism, utilitarianism, idealism, communism, pragmatism, and existentialism. Same as PHI 412. Prerequisite: SOC 111.

**SOC 413 Sociology of Religion (3 hours)**

Sociological processes and religion; civil religion, cult-church development, individual and corporate religion as social institutions. Religion as a social force. Same as REL 413. Prerequisite: SOC 111.

**SOC 414 Sociology of Deviance (3 hours)**

Sociological examination of deviant (“rule breaking”) behavior, i.e., crime, juvenile delinquency, mental illness, drug use, and institutional deviance, with emphasis on the critical examination of theoretical perspectives that explain deviant behavior and social control. Prerequisite: SOC 111.

**SOC 422 Work in Contemporary Society (3 hours)**

The course will consist of an examination of the sociological, historical, and political aspects of work within the current and dominant mode of production. Included will be an introduction to, and critique of, political economy. A special emphasis will be placed on the (non) experience of class and class-consciousness. Globalism as an ideology and post-Fordism as a process will be analyzed within the socio-economic contexts of work and consumption related phenomena. Prerequisite: SOC 111.

**SOC 425 Sociology of Education (3 hours)**

An examination of access to and differential benefits from formal education in the U.S. Emphasis is on the education system as part of the institutional arrangements that create privileges for some and barriers for others, perpetuating the current system of stratification and inequality in the U.S. Prerequisite: SOC 111.

**SOC 460 Internship (1-12 hours)**

Capstone experience in which student is placed in an agency, company, organization, or legislative setting which provides an opportunity to assume a professional role to build skills and expand expertise. Prerequisites: approval of advisor, department chair, and Academic Dean.

**SOC 490 Special Topics (1-3 hours)**

A special course developed to afford learning experiences beyond courses in the curriculum. Topics for the course require approval of the Academic Dean.

**SOC 495 Honors Project (4 hours)**

Open to seniors by invitation only.

## **SPANISH**

**SPA 101 Spanish for Managers I (3 hours)**

Spanish for Managers begins with very basic conversational Spanish for everyday situations, then moves into vocabulary that is useful for Human Resource Managers.

**SPA 102 Spanish for Managers II (3 hours)**

Continuation of SPA 101. Open only to MOD and/or College Start students.

**SPA 111 Spanish I (3 hours)**

Basic skills of speaking, listening, reading and writing Spanish.

**SPA 112 Spanish II (3 hours)**

Continuation of SPA 111. Prerequisite: SPA 111

**SPA 211 Intermediate Spanish I (3 hours)**

A study of the grammar and vocabulary of spoken Spanish, introduction to short fiction, and further practice in the four basic skills: speaking, listening, reading, and writing. Prerequisite: Spanish 112 or demonstrated proficiency.

**SPA 212 Intermediate Spanish II (3 hours)**

A continuation of SPA 211. Prerequisite: SPA 211.

**SPA 311 Advanced Grammar (3 hours)**

Intensive review of Spanish grammar. Students will develop an understanding of the deeper structures of the language and increase proficiency in four skills: listening, speaking, reading, and writing. Prerequisite: SPA 212 or permission of instructor.

**SPA 312 Hispanic Culture (3 hours)**

A study of Hispanic cultures and the relationship between culture and language. Prerequisite: SPA 311 or permission of instructor.

**SPA 401 Hispanic Literature (3 hours)**

A survey of Hispanic Literature, both American and Peninsular, to include essays, poetry, short fiction, and plays. Prerequisite: SPA 312 or permission of instructor.

**SPA 421 Advanced Topics (3 hours)**

Possible topics include Don Quijote de la Mancha, the Latin American Novel, Hispanic Film, Business Spanish, Teaching in a Bilingual Classroom, and Spanish/Latin American History. Prerequisite: SPA 401 or permission of instructor.

**SPA 490 Special Topics (1-3 hours)**

A special course developed to afford learning experiences beyond courses in the curriculum. Topics for the course require approval of the Academic Dean.

**SPA 499 Individual Study (1-3 hours)**

In-depth study of a subject of interest beyond courses in the curriculum. Prerequisite: Junior standing and approval of advisor and Academic Dean.

## **SPEECH AND THEATRE**

**SAT 110 Public Speaking and Communication (3 hours)**

Development of communication methods and survey of basic communication models. Emphasis on public speech preparation and presentation. Demographic identification, visual aids, research methods, composition strategies.

**SAT 116 Introduction to Theatre (3 hours)**

Study of dramatic literature, history, and performance with emphasis on contemporary theatre and the collaborative process. This course is designed for those students interested in pursuing theatre as a major or minor.

**SAT 150-450 Tour Troupe (1 hour)**

Touring performance troupe designed to represent Bethel University in functions and educational environments around the state and region. May be repeated for credit up to two hours. Class standing at enrollment determines level. Prerequisite: Audition and invitation of Director of Theatre.

**SAT 180-480 Theatre Practicum (1-3 hours)**

Practical experience in acting, stage craft, and associated theatre work. May be repeated for credit. Class standing at enrollment determines level. Prerequisites: Audition and invitation of Director of Theatre.

**SAT 201 Acting (3 hours)**

Basic body and voice training through improvisation, visual imagery and vocabulary, monologues, and scene study. Basic introduction of theatrical technology and acting techniques.

**SAT 203 Stage Technology (3 hours)**

Introduction to the basic elements of technical theatre: terminology of the stage, scenery and prop construction, and lighting technology. Predominantly a hands-on course, it provides a practical and authentic theatrical production experience. Each student will be required to sign up for shop hours toward work on productions.

**SAT 210 Set and Light Design (3 hours)**

Study of elements and processes of set design and light design for theatrical productions. Students will develop knowledge, vocabulary, and skills necessary to create set and light designs appropriate to particular theatrical literature and to design concepts articulated by a director. Prerequisite: SAT 203.

**SAT 211 Costume and Make-Up Design (3 hours)**

Study of elements and processes used in costume design and in make-up design for theatrical productions. Students develop knowledge, vocabulary, and skills necessary to create costume and make-up designs appropriate to particular theatrical literature and to design concepts articulated by a director.

**SAT 301 Theatre History (3 hours)**

Significant contributions to the world of theatre from the Greeks to present day. Prerequisite: SAT 116 or consent of instructor.

**SAT 304 Voice and Diction/Movement (3 hours)**

This course is designed for further exploration and development of the actor's instrument through a focused study and application of vocal production and movement. Students will learn relaxation, vocal production, characterization, observation, and improvisation, body positioning, staging techniques. Prerequisite: SAT 201

**SAT 310 Special Topics in Theatre (Performance) (3 hours)**

Opportunity for additional advanced work in theatre performance; mask production, improvisation, performance art, reader's theatre, narrative theatre, stage combat, children's theatre, music theatre performance. Prerequisites: SAT 116 and 201.

**SAT 311 Special Topics in Theatre (Technology) (3 hours)**

Opportunity for additional advanced work in theatre technology; scene design, costume design and history, lighting design, sound design, stage management. Prerequisites: SAT 116 and 302.

**SAT 312 Special Topics in Theatre (Literature) (3 hours)**

Opportunity for additional advanced work in theatre literature; works of a specific playwright, genre, period. Prerequisites: SAT 116 and 301.

**SAT 315 Playwriting (3 hours)**

Instruction in storytelling skills for writers using script format. Topics include various script forms, the basic components of scripts, and their implementation into dramatic format. Prerequisite: SAT 116, ENG 101, ENG 111. Same as 315.

**SAT 321 Advanced Acting (3 hours)**

Advanced training to further develop analytical, movement, vocal production, and performance skills for theatre majors and minors. Prerequisite: SAT 201

**SAT 399-499 Individual Study (1-3 hours)**

In-depth study of interest beyond courses in the curriculum. Prerequisites: Junior standing and approval of advisor, Academic Dean, and instructor.

**SAT 401 Directing (3 hours)**

Basic principles of stage directing, play selection, casting, and rehearsal; direction and presentation of selected scenes in class. Prerequisite: SAT 116, 201 and 301.

**SAT 490 Special Topics (1-3 hours)**

A special course developed to afford learning experiences beyond courses in the curriculum. Topics for the course require approval of the Academic Dean.

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# GRADUATE COURSE DESCRIPTIONS

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## COLLEGE ORIENTATION EXPERIENCE

### **COE 5000 Orientation to Graduate Education**

(non-credit required class for graduate-level Education and MBA majors). This course reviews course expectations and grading, program requirements, plan of study, graduation requirements, support services and staff, licensure requirements, etc. This requirement must be met within the first two semesters of the candidate's program.

### **COE 5051 Seminar I (1 hour)**

Face-to-face lecture experience with a subject matter expert. Topics vary.

### **COE 5052 Seminar II (1 hour)**

Face-to-face lecture experience with a subject matter expert. Topics vary.

### **COE 5053 Seminar III (1 hour)**

Face-to-face lecture experience with a subject matter expert. Topics vary.

### **COE 5054 Seminar IV (1 hour)**

Face-to-face lecture experience with a subject matter expert. Topics vary.

### **COE 5055 Seminar V (1 hour)**

Face-to-face lecture experience with a subject matter expert. Topics vary.

### **COE 5056 Seminar VI (1 hour)**

Face-to-face lecture experience with a subject matter expert. Topics vary.

## CRIMINAL JUSTICE

### **CCJ 5000 Topics in Criminal Justice (3 hours)**

This course is a survey of current topics in criminal justice including diversity and ethics.

### **CCJ 5100 Diversity in the Criminal Justice System (3 hours)**

This course examines the interrelationship of race, class and gender with the criminal justice system in law enforcement and the correctional system.

### **CCJ 5110/5120/5130 Criminal Justice Seminar (1-3 hours)**

Topical seminars presented by leading experts in the field of criminal justice.

### **CCJ 5200 Administration of Organizations in the Criminal Justice System (3 hours)**

This course will provide students with the knowledge to conduct general systems based analysis of criminal justice organizations and to develop programs to improve the efficiency of such organizations.

**CCJ 5300 Crime Mapping (3 hours)**

This course will provide students with the theoretical, analytical, and technical skills necessary for studying crime in a geographic context. The course will involve a combination of approaches to the subject including: development of base maps, geocoding (pin mapping), hot spot and choropleth mapping, spatial analysis and layouts including map books.

**CCJ 5400 Research Methods (3 hours)**

This course is designed to provide advanced social science research skills and to allow students to put those skills into practice with a required research project.

**CCJ 5500 Criminal Law (3 hours)**

This course is intended to provide a functioning knowledge of constitutional law as it pertains to law enforcement and criminal justice.

**CCJ 5600 Criminological Theory (3 hours)**

This course examines the theories of criminality ranging from classical explanations to recent paradigms.

**CCJ 5700 Administration of Corrections Organizations (3 hours)**

This course examines the administrative functions of correctional organizations including human resource management, budgeting, administrative structure, and safety.

**CCJ 5800 Ethics in Criminal Justice (3 hours)**

This course considers theories and practices in the areas of legality, morality, values, and ethics within the criminal justice system.

**CCJ 5900 Homeland Security Assessment (3 hours)**

This course will familiarize students with the tools necessary to conduct an assessment of an agency's overall homeland security vulnerability and develop a comprehensive homeland security plan based on the findings.

**CCJ 6000 Organizational Development Project (3 hours)**

This is a project-based course in which the student will identify an opportunity for organizational improvement through analysis of the chosen organization. Students will complete a literature review to identify alternatives to improve the organization and collect data to further inform the development of an implementation plan.

**CCJ 6100 Human Resources in Law Enforcement (3 hours)**

This course provides an examination of the role of human resource management in law enforcement and corrections organizations.

**CCJ 6200 Criminal Justice Practicum (3 hours)**

A 210 hour internship/externship within a functioning criminal justice agency. An experiential learning program for criminal justice students to observe, learn and participate in the daily functions and procedure of a specific criminal justice agency. Pass/Fail.



## EDUCATION: CURRICULUM & INSTRUCTION

### **ECI 5103 Effective Classroom and Behavior Management (3 hours)**

The course is designed to enable the teacher to perform as a manager within the restrictions of the classroom. The areas of concentration will be grouping, presentation of material relevant to the area of specialization, discipline, learning styles, teaching styles, creativity, and climate.

### **ECI 5104 Assessments for Diverse Learners (3 hours)**

Emphasis on methods of assessment that reinforce understanding of the various disciplines; including, but not limited to, performance assessments, assessment of students projects and papers, traditional exams, and observational exams.

### **ECI 5119 Methodology for Teaching Music Education K-12 (3 hours)**

A study of principles, practices, techniques, and materials for teaching music (instrumental and vocal) in the K-12 setting. Prerequisite: Admission to TEP.

### **ECI 5120 Methodology for Teaching Secondary Education Science (3 hours)**

A study of principles, practices, techniques, and materials for teaching biology or chemistry in the (7-12) secondary school with emphasis on current research in the field. Prerequisite: Admission to TEP.

### **ECI 5121 Methodology for Teaching Secondary Education English (3 hours)**

A study of principles, best practices, techniques, and materials for teaching English in the (7-12) secondary school with emphasis on current research in the field. Prerequisite: Admission to TEP.

### **ECI 5122 Methodology for Teaching Secondary Education-Social Studies (3 hours)**

A study of principles, best practices, techniques, and materials for teaching Social Studies in the (7-12) secondary school with emphasis on current research in the field. Prerequisite: Admission to TEP.

### **ECI 5123 Methodology for Teaching Secondary Education Mathematics (3 hours)**

A study of principles, best practices, techniques, and materials for teaching Mathematics in the (7-12) secondary school with emphasis on current research in the field. Prerequisite: Admission to TEP.

### **ECI 5124 Methodology for Teaching Secondary Education Physical Education (3 hours)**

A study of principles, best practices, techniques, and materials for teaching Physical Education in the (7-12) secondary school with emphasis on current research in the field. Prerequisite: Admission to TEP.

### **ECI 5125 Methodology for Teaching Elementary Reading Methods (3 hours)**

A general study of strategies used in building and reinforcing reading skills in content areas of secondary grades. Prerequisite: Admission to TEP.

### **ECI 5126 Methodology for Teaching Elementary Language Arts and Social Studies (3 hours)**

This study will include lesson planning and unit planning in both language arts and social studies in the elementary (K-6) classroom with emphasis on current research in the field. Prerequisite: Admission to TEP.

### **ECI 5127 Methodology for Teaching Elementary Math and Science (3 hours)**

This study will focus on the design and implementation of instruction of mathematics and science in the elementary (K-6) classroom with emphasis on current research in the field. Prerequisite: Admission to TEP.

**ECI 5128 Reading Diagnosis and Remediation (3 hours)**

Focuses on principles of measurement and evaluation in reading. Stresses formal and informal techniques used by the classroom teaching in assessing a child's reading potential. Prerequisite: Admission to TEP.

**ECI 5142 Current Events that Affect the Learning Process (3 hours)**

Examines current issues concerning education that could affect teaching, curriculum, families, students, teachers, administrators, school policy and school law. Emphasis placed on exploring, interpreting, and evaluating educational experiences. Participants will create new learning experiences and a knowledge base that will enable them to resolve educational and diversity issues.

**ECI 5149 Cooperative Teaching (3 hours)**

An advanced study of effective co-teaching models. Explores the components that form the definition of a co-teaching model, defines what a co-teaching model looks like in the classroom, examines scheduling and planning issues, and investigates the challenges of being a part of a co-teaching team.

**ECI 5160 Field Experience (1 hour)**

School site or school district based experience to practice and reinforce knowledge and skills in instructional leadership, teaching and learning, and curriculum and instruction in appropriate areas of school or school district operation with consideration to the individual student's career goals. A minimum of 30 hours of observation in a partnering school; this course is designed for candidates who do not have experience in the classrooms, and must be taken twice for an accumulative 60 hours.

**ECI 5163/EEC 5263 Reflective Professional Student Teaching Seminar (2 hours)**

The seminar provides the opportunities for candidates to discuss their transition from university setting into the public school classroom setting. Students will be expected to develop skills and resources that will help them secure professional employment. Co-requisite: ECI 5164 or ECI 5165 or EEC 5254.

**ECI 5164 Enhanced Student Teaching/Clinical Experience: Elementary (7 hours)**

This course will give the prospective teacher sustained experience in the public school classroom. In addition to teaching, the student is expected to assume other professional responsibilities that are assigned to him/her by the cooperating teacher and/or principal. The student will return to Bethel University for scheduled classes or seminars with Bethel University staff. Co-requisite: ECI 5163 OR EEC 5263.

**ECI 5165 Enhanced Student Teaching/ Clinical Experience: Secondary (7 hours)**

This course will give the prospective teacher sustained experience in the public school classroom. In addition to teaching, the student is expected to assume other professional responsibilities that are assigned to him/her by the cooperating teacher and/or principal. The student will return to Bethel University for scheduled classes or seminars with Bethel University staff. Co-requisite: ECI 5163 OR EEC 5263.

**ECI 5167 Practitioner Teacher Monitoring Program I (3 hours)**

Transitional teacher monitoring program will fulfill the Professional Education Core Competencies for the state of Tennessee transitional license requirements. Transitional Licensure Monitoring Program I is designed to address the competencies for orientation component (A-D). The transitional licensed teachers must have successfully completed the orientation component before first renewal of the transitional license. Program delivery includes classroom instruction, mentoring, and in-class monitoring during the semester to meet the state requirements of 40 hours of classroom instruction.

**ECI 5168 Practitioner Teacher Monitoring Program II (3 hours)**

The Transitional Teacher Monitoring Program II will fulfill the Professional Education Core Competencies for the state of Tennessee transitional license requirements. The prerequisite for Transitional Teacher Monitoring Program II is successful completion of Transitional Teacher Monitoring Program I. The Transitional Teacher Monitoring Program II is designed for transitional teachers to meet the professional development components (E-K) of the transitional license requirements in the second monitoring course. Program delivery will include, but not be limited to, a series of workshops and seminars that will cover the components and produce artifacts that will be used as evidence of the teacher's competency in the subject area. Prerequisite: ECI 5167.

**ECI 5190 Special Topics (1-3 hours)**

A special course designed to afford learning experiences beyond courses in the curriculum. Topic of course is approved by the director of the program and identified in the published class schedule (Prerequisite –permission of the Director of the School of Education.

**ECI 5193 Individual Study (1-3 hours)**

In-depth study of a subject of interest beyond courses in the curriculum. Topic of course is approved by the Director of the School of Education.

**ECI 5248 Special Populations (3 hours)**

Provides an overview of the needs and issues that impact at-risk students. Participants will gain differentiated skills necessary in teaching students with disabilities, students of poverty, students learning beyond grade level, and English language learners.

**ECI 5501 Reading in the Secondary Content Area (3 hours)**

This course is designed to help prospective secondary educators in all content areas increase and enhance students' learning from text. It is also designed to help secondary teachers recognize and compensate for the variety of reading levels in the classroom. Methods of intervention and assessment of reading for grades 6-12 will be explored and researched. Emphasis will be placed on the major content areas of math, science, social studies, English, and the related arts. The course will provide opportunity for students to analyze secondary textbooks as well as themed literature related to content areas. The major emphasis of the course will be on the practical application of reading in the classroom setting and because of the link between reading and writing attention will be paid to writing in the content area.

**EDUCATION: EXCEPTIONAL CHILDREN****EEC 5201 Giftedness (3 hours)**

This course includes surveys of the history of the field, basic terminology and definitions, major models and theories, and effective program prototypes for gifted students. Students review characteristics of the gifted and talented and overview identification and assessment procedures for gifted students. Attention is given to analyzing traits of effective teachers and counselors and to developing models for interaction with gifted students.

**EEC 5202 Positive Behavior Intervention (3 hours)**

Systems for identifying behaviors that interfere with successful education. Referral, assessment, development and implementation of intervention plans. Social skills instruction, applied behavior analysis, family supports and medical referrals.

**EEC 5203 Emotional and Behavioral Disorders (3 hours)**

Characteristics of an array of emotional and behavioral disorders; identification procedures; family supports and medical/therapeutic referrals for students with aberrant behavioral and/or emotional patterns.

**EEC 5207 Curriculum & Instruction for the Gifted (3 hours)**

This course examines the differentiated affective characteristics and needs of the gifted, including a review of general counseling theories, effective communication skills with the gifted, and the assessment of affective needs. Students will develop strategies for assisting the gifted and developing social and interpersonal skills. Teaching methods and materials for gifted children will be introduced; identifying characteristics and special needs of gifted children; federal and state laws, rights, and responsibilities of special needs children.

**EEC 5208 Dyslexia (3 hours)**

This course will present an overview of dyslexia, identification process and instruments, and multiple interventions. Analysis of published programs and curricula will culminate with instruction in multisensory teaching strategies based on Orton-Gillingham method.

**EEC 5210 Autism (3 hours)**

This course presents a comprehensive overview of how to teach students with autism spectrum disorders (ASD). The focus of this course includes understanding the characteristics of specific disorders, including autistic disorder, childhood disintegrative disorder, RETT syndrome, pervasive developmental disorder-not otherwise specified, and Asperger's syndrome. Additionally, challenges that today's educators face in reaching students with ASD and intervention strategies for implementing effective educational programs for them are addressed.

**EEC 5211 Introduction to Sign Language (3 hours)**

This course is an introduction to sign language with an emphasis on American Sign Language. Students will learn about the different forms of signs used currently in the United States, will be exposed to basic ASL vocabulary, grammar, finger spelling, numbers, terminology, and cultural information related to the Deaf Community.

**EEC 5212 Mild to Moderate Disabilities (3 hours)**

In depth study of the characteristics and needs of children with cognitive, emotional, behavioral and learning disorders.

**EEC 5213 Action Research in Special Education (3 hours)**

This study will focus on qualitative and quantitative educational research methods. In depth study will include topic selection, data analysis, literature review, and presentation.

**EEC 5214 Teacher as Reflective Practitioner (3 hours)**

This course is designed to promote reflection as a component of instructional planning and assessment to bridge the connections between planning, performance standards, and professional standards.

**EEC 5215 Trends and Issues in Special Education (3 hours)**

Current trends and issues in special education will be addressed through the study of court decisions, legislations, administrative decisions, and professional activities. The course will use case studies, research analysis, and Socratic discussions.

**EEC 5217 Advanced Procedures (3 hours)**

Development of skills in writing IEPs and other required documents for special educators. Entire referral to placement process. Instruction in EasyIEP.

**EEC 5218 Communication and Assistive Technology (3 hours)**

This course is designed to introduce educators to speech, language, and hearing disorders, and the effects of these disorders on communication and the ability to learn in the traditional classroom. Additionally, the use of different forms of assistive, communicative technology will be introduced.

**EEC 5219 Collaboration/Consulting (3 hours)**

This course is designed to assist teacher candidates and in-service teachers in developing a research-based framework for understanding the dynamics of school, family, and community relations while exploring conditions that influence family-school-community interactions. Professional communication, collaboration, and shared responsibility will be the emphasis of this course.

**EEC 5221 Procedural Law (3 hours)**

Historical development of special education in the United States through legislation and litigation. Emphasis placed on the implementation of key legislative aspects in public school settings, teacher responsibilities to students/parents.

**EEC 5222 Secondary Methods for Exceptional Learners (3 hours)**

Curriculum planning, teaching, and evaluation practices for grades 7-12; emphasis on characteristics and needs of all secondary students, including students diverse in race/ethnicity, language, or special needs, through a variety of instructional techniques, including reading and mathematic skills in the content area. Unit and lesson development using Tennessee and National standards.

**EEC 5225 Tests and Measurements (3 hours)**

Candidates will be involved in the study of current psycho-educational assessment practices and issues. Candidates will become familiar with educational and psychological tests especially those used in special education for special education for diagnostics and planning.

**EEC 5226 Elementary Methods for Exceptional Learners (3 hours)**

Instructional strategies and techniques for working with students with disabilities in inclusive classrooms (grades K-6) and individualizing the general education curriculum; fieldwork project included in which they assess students with disabilities, develop individualized education programs, and demonstrate the program's effectiveness with performance-based assessment information. Field experience required.

**EEC 5249 Cooperative Teaching (3 hours)**

This course focuses on learning how to successfully co-teach in the classroom and understand co-teaching practices that lead to successful collaboration including developing meaningful and appropriate lesson plans that help enhance and implement an effective co-teaching experience. The course will review the main concepts of co-teaching with reference to technology as a means of facilitating the co-teaching process.

**EEC 5263 Reflective Professional Student Teaching Seminar (2 hours)**

This seminar provides the opportunities for candidates to discuss their transition from the Bethel University setting into the public school classroom. Candidates will be expected to develop skills and resources that will help them secure professional employment.

**EEC 5264 Enhanced Student Teaching/Clinical Experience K-12 (7 hours)**

This course will provide the prospective teacher sustained experience in the public school classroom. In addition to teaching, the student is expected to assume other professional responsibilities that are assigned to him/her by the cooperating teacher and/or principal.

**EEC 5432. Elementary Reading and Math Interventions (3 hours)**

Instructional strategies and intervention techniques for working with elementary students with disabilities in inclusive classrooms and individualizing the general education curriculum. Focus on evidenced based practices. Prerequisite: TEP I.

**EEC 5433. Secondary Reading and Math Interventions (3 hours)**

Instructional strategies and intervention techniques for working with secondary students with disabilities in inclusive classrooms and individualizing the general education curriculum. Focus on evidenced based practices. Prerequisite: TEP I.

**EDUCATION: FOUNDATIONS OF TEACHING****EFT 5001 Advanced Educational Psychology (3 hours)**

An advanced study of the physical, emotional, social, and cognitive characteristics of children within grades K-12.

**EFT 5002 Computer and Modern Technology for Educators (3 hours)**

A projects-based course in instructional technology which provides learners with the opportunity to enhance their skills and understanding of the use of varied media to present, record, and share information.

**EFT 5005 Methodology of Educational Research (3 hours)**

A study of procedures used to locate sources of information. Use of various research methods to collect, organize, analyze, and interpret data and apply results.

**EFT 5015 Legal and Ethical Issues in Education (3 hours)**

A study of the laws, court decisions, codes of ethics, and ethical issues has direct implications on the school's teacher, counselor and administrator in the professional setting.

**EFT 5022 Alternative Strategies in Learning (3 hours)**

Educators will develop and articulate their own theories of learning after examining carefully and critically, the prevalently existing and competing theories of learning. The study of motivation and its effect on learning, including the use of teaming, understanding of the brain's functions, different and alternative strategies in learning and teaching, and classroom management will be covered.

**EFT 5034 Organizational Development in the Educational Setting (3 hours)**

This course explores a working understanding of facilitating a successful structure and system analysis of a school's organization that will yield improvement and performance.

## EDUCATION: LEADERSHIP & ADMINISTRATION

### **ELA 5330 Leadership Strategies (3 hours)**

A study of content, topics and competencies required for instructional leaders toward fostering a culture of high expectations.\*\*

### **ELA 5332 Instructional Leadership and Program Improvement (3 hours)**

A study of content, topics, and competencies required for instructional leaders to enhance student achievement and school success and foster a culture of high expectations for all stakeholders.

### **ELA 5333 Budgeting, Accounting, Facilities Management (3 hours)**

Provides the philosophical basis and practical applications of school finance along with the planning, design, revalidating and construction of new educational facilities and/or the rehabilitation, remodeling or modernization of existing facilities. Topics covered include accounting, information systems, personnel funding, budgeting, plant maintenance, risk management, strategic planning and operation and maintenance programs.\*\*

### **ELA 5337 Education Ethics (3 hour)**

A study of decision-making within an ethical context that protects the rights and responsibilities of all school constituents in today' diverse society.

### **ELA 5355 Field Experience in Administration & Supervision (3 hour)**

School site or school district based experience to practice and reinforce knowledge and skills in instructional leadership, administration, or supervision in appropriate areas of school or school district operation with consideration to the individual student's career goals.

## HEALTHCARE ADMINISTRATION

### **HCA 501 Healthcare Administration (3 hours)**

This course is designed to help students gain a conceptual framework and the practical applications of such skills within a health care setting. Best practices for health care administration are analyzed, along with sound business practices from management theory. Strategic planning, policies, objectives, change management and organizational strategy will be covered in this fundamental course. The relationship between consumer (patient) and business (practitioner) will be analyzed.

### **HCA 511 Healthcare Financial Management (3 hours)**

This course will examine systems and uses of accounting and financial planning with an emphasis on the healthcare organization, including planning and control. The course will include an analysis on financial decision making, using quantitative techniques to make sound decisions in accounting, and general financial planning for healthcare organizations. Included in the course will be an overview of the analysis of financial statements, reporting, ratios, and budgeting for health care businesses. Some emphasis will be placed on budget preparation and cost benefit analysis from a managerial perspective.



**HCA 521 Healthcare Information Technology (3 hours)**

Present the practical use of technology in the medical practice. Identify the most common uses of technology in the field of health care and how best to deploy and architect systems. Understand the role of Health Information Management in the health care business, and the use of Electronic Medical Records in health care organizations. Identify and analyze the role of information technology workers specifically to the health care setting, and the implication of security and privacy as it pertains to secure electronic communications in the health care field.

**HCA 531 Healthcare Policy Analysis and Decision-Making (3 hours)**

The emphasis of this course is the role of government in health care policy, the US health care system, costs of healthcare, and an analysis of the ethical and business implications of social welfare. The course will emphasize current trends in economic and social issues along with efforts to revise the system. Students will benefit from a deeper understanding of the political, economic and social issues affecting health care businesses and how decisions are impacted as a result.

**HCA 541 Human Resource Administration in Healthcare (3 hours)**

This course will take a unique look at the issues impacting human resource management in health care businesses, including physician relations, labor relations, recruitment and retention, development of staff, malpractice concerns, governance and compliance of health care workers. This course is designed to help students gain conceptual framework in developing quality systems and executing organizational strategies in a healthcare setting. Quality management tools will be examined and blended with strategic planning tools (collaboration of PDCA and dashboards, balance scorecards, metrics) to ensure integration of organizational strategy and continuous process improvement programs. Students will gain knowledge of identifying organizational barriers, developing action and prioritization plans, decision-making and change management, gaining efficiencies, and how to implement and execute strategic plans.

**HCA 551 Leading Healthcare Organizations (3 hours)**

This course provides students with an overview of understanding current healthcare trends with leadership challenges. In this course, students will gain knowledge in collaboration of leadership and accountability to offer organizational success. The students will discover the servant leadership model in gaining organization efficiencies and managing healthcare professionals, technology demands, change management, and best practices. Students will gain a broad perspective of leadership and an introduction in quality systems management and strategic planning. This course is a predecessor to Quality Strategic Planning and Execution.

**HCA 561 Quality Strategic Planning and Execution in Healthcare (3 hours)**

Prerequisite: Leading Healthcare Organizations. This course is designed to help students gain conceptual framework in developing quality systems and executing organizational strategies in a healthcare setting. Quality management tools will be examined and blended with strategic planning tools (collaboration of PDCA and dashboards, balance scorecards, metrics) to ensure integration of organizational strategy and continuous process improvement programs. Students will gain knowledge of identifying organizational barriers, developing action and prioritization plans, decision-making and change management, gaining efficiencies, and how to implement and execute strategic plans. The prerequisite to this course is Leading Healthcare Organizations.

## HUMAN RESOURCE MANAGEMENT

### **HRM 508 Employee Relations (3 hours)**

This course presents an applied study of significant legal issues in labor and employment law including labor-management relations, wage and hour laws, retirement, welfare and privacy laws that prepare future managers, supervisors, and business owners for responsibilities in management-employee relations. In addition, an examination of managerial issues affecting development of labor relations policy will be explored. Topics to be examined include the impact of public policy, negotiation, and administration of collective bargaining agreements, the NLRB and arbitration cases. The role of managers in ethical decision making will also be reviewed.

### **HRM 516 Workforce Planning and Staffing (3 hours)**

This course will present a comprehensive approach to identifying viable workforce planning and employment strategies in an effort to assist the organization in meeting its strategic goals and objectives. Topical areas to be covered include: workforce planning, sourcing strategies, succession planning and retention and employee exit programs. The course will also cover specific topics related to job analysis and design.

### **HRM 524 Total Rewards: Compensation and Benefits (3 hours)**

This course is designed to focus on Total Rewards Systems related to direct and indirect compensation systems. The content of the course will focus on how to develop/select, implement/administer, and evaluate compensation and benefit programs that support an organization's strategic goals and objectives. This course will also provide greater insight and knowledge of legislation that affects all elements of a Total Rewards System. The payroll function and its role in the administration and compensation and benefits programs will be presented. Evaluation methods that can be used to assess the effectiveness of a Total Rewards System will also be examined.

### **HRM 532 Performance Management In Organizations (3 hours)**

This course will address the entire range of topics associated with managing the human asset to realize and sustain optimal levels of performance. Topics will include appraisal systems, change management models, adult learning theories, individual versus team performance, organizational development, and managing a diverse workforce. Various aspects of the corporate training and development function, training program design and development of various methods and media for training delivery, as well as return on investment outcomes, will be explored. In addition, this course will also examine the development of systems that will provide highest levels of both personal and professional development and growth within the organization; creation of promotional and cross-functional systems that will talent strength the organization; development of retention strategies that tie rewards to performance of talent; creation of workforce planning systems that will provide succession planning of best talent within the organization; and utilization of technological systems to support these functions within human resources planning will be presented.

### **HRM 540 Risk Management (3 hours)**

This course is designed to focus on the importance of Enterprise Risk Management in today's evolving business climate. The primary framework and key aspects of workplace health and safety, security, and privacy issues, as well as legislation and organizational measures will be presented. In addition, the course will provide insight to the development of HR policies and procedures to determine organizational risk areas and evaluation methods to identify program effectiveness.

**HRM 548 Strategic HR (3 hours)**

This course will present the role of human resources from a strategic perspective. Topics will assess managing human resources as a strategic organizational asset that supports competitive advantage and major strategic objectives. HRM as an integral partner in a firm's strategic planning and implementation, in terms of external environmental and internal exigencies, will be presented. HR planning and strategies and their applications in HR programs and processes will also be examined. Students will also learn how to develop alignment among vision, strategy and values in the development of a paradigm based upon competencies required for enhancing the business results of a company or government agency. In addition, this course will also address how to build measurement strategies for all HR activities so that the impact can be determined. A value-added approach will be taken so that HR practitioners will be able to exhibit an understanding of the business strategies, impact and outcomes that assess aspects that influence organizational quality, productivity, services, and profitability. HR will be assessed as a system within a system. Students will learn how to position HR as a strategic partner to realize organizational competitiveness in a global environment.

**MASTERS OF BUSINESS ADMINISTRATION****MBA 502 Organizational Behavior (3 hours)**

This course will present a comprehensive approach in which total organizational effectiveness is conceptualized, measured, and realized in practice through the understanding of individual and team behavior/effectiveness. It will also explore how improvement can be initiated, managed, and sustained throughout the organization.

**MBA 504 Organizational Development (3 hours)**

An advanced application of general systems theory to the organizational environment. Students will conduct a system and structure analysis of their organization and present an analysis of the organization reflecting an extensive literature review. A plan to substantially improve some aspect of the organization's performance will be developed.

**MBA 506 Managerial Economics (3 hours)**

This course will take an economic perspective to answer why managers and organizational leaders need to understand and interact with the external environment in order to survive and succeed in a continually changing and globally competitive world. Looking at "the big picture," this course presents basic tools that economists use to analyze that environment. This course will culminate with the student completing an economic audit of an organization.

**MBA 511, MBA 512, MBA 513, MBA 541, MBA 542, MBA 543 Seminar I, II, III, IV, V, VI (1 hour each)**

Offered at regional satellite campuses, the seminar provides a structured opportunity for interaction between students and faculty. Seminars will include presentations from subject matter experts and students, as well as workshops and meetings between faculty and students. One credit hour per term for terms I, II, III, IV, V, and VI.

**MBA 514 Statistical Analysis (3 hours)**

This course involves the development of understanding the methods of statistical analysis and their usefulness in making business decisions in organizations. The course will cover tools for data collection, research methodology, presentation of data and data analysis related to managerial decision-making.

**MBA 516 Business Ethics (3 hours)**

This course will begin by examining the meaning of ethics through the review of several philosophical approaches. Students will identify internal and external stakeholders affected by ethical decision making. The course seeks to help develop an awareness and appreciation for ethical consideration in personal and professional decision making. The content of this course is designed to expand critical thinking and to analyze how individual and business decisions affect our society.

**MBA 518 Management Information Systems (3 hours)**

This course will examine knowledge management as a topic related to organizational decision-making. Students will examine the application of computing technologies as tools for developing and conveying domains of knowledge effectively by using diverse computing methods to gather, process, and present knowledge and information to enhance the learning process.

**MBA 520 Marketing Management (3 hours)**

A course designed to focus on the importance of modern organizations being market driven and globally competitive. The course examines the role of marketing through the discussion of comprehensive marketing concepts and case analysis better equipping managers to make decisions.

**MBA 522 Strategy and Managerial Decision-Making (3 hours)**

This course will expose the adult learner to the examination of strategic processes that influence and determine the direction of an organization. Students will analyze the organizational mission and objectives, identify organizational strengths and environmental opportunities, examine the components of competitive advantage, and develop strategies and policies to achieve the organization's mission. Students will complete analysis of current organizations and/or case studies.

**MBA 524 Managerial Accounting (3 hours)**

The use of accounting tools as a source of data for managerial decision making including cash flow, general accounting ledgers, income, financial position, cash, receivables, investments, inventories, liabilities, reconciliation and financial statements.

**MBA 528 Managerial Finance (3 hours)**

This course will use financial management as a tool for observing current financial positions of an organization through the analysis of financial data such as cash flow, profit & loss reports, and financial statements. This course is also designed to assist managers while strategically making decisions to improve the future financial position of an organization using tools such as the time value of money, risk and rates of return, stocks, and budgeting.

**MBA 530 Human Resource Management (3 hours)**

The management of an organization's human resources can be challenging. This course provides an overview that addresses challenges such as recruitment and selection, training and development, as well as performance appraisals and compensation administration. Additionally this course incorporates a manager's perspective of HRM relative to the strategic planning process.

**MBA 532 Leadership (3 hours)**

This course assists students in fulfilling their effective leadership potential through the examination of historical and contemporary theories. We will address questions such as: What does the 21st century leader need to know in order to motivate followers? What are the relationships between leaders and followers? What is the difference between management and leadership?

**MBA 536 Marketing Through Social Media (3 hours)**

This course will explore the new marketing terrain of social media and how it can be utilized to increase brand awareness and customer engagement. Students will learn to differentiate between emarketing (paid marketing) and social media marketing (earned marketing) and how to use these conjointly in a comprehensive marketing plan. Students will also learn how to measure ROI using social media platforms. Instructional material will include best practices and case studies of companies that have successfully used this new media platform to increase their sales and customer satisfaction.

**MBA 601 & 602 Organizational Development Project (6 hours)**

The Organizational Development Project provides executive track students with the opportunity to analyze, develop, and implement a project that will substantially improve an aspect of the organization's performance. During the first term, the student will conduct a system and structure analysis, review the current literature, and identify a research strategy to determine whether implementation of an intervention improved organizational performance.

## **MANAGEMENT OF INFORMATION TECHNOLOGY**

**MIT 501 Management of Information Technology (3 hours)**

This course will focus on the major issues involved in managing and leading information technology (IT) groups in today's global marketplace. With a complicated technology structure and more accessibility than ever, it's vital that students have an overview of the issues facing technologists today. Topics to be covered are project management in a rapidly changing marketplace, support systems for management, the role of IT in a modern business, the changing face of technology and the operational steps to successful IT management. The course will use many case studies and resources to help learners grasp the concepts of the connection between core competencies in business and information technology.

**MIT 511 Enterprise Information Security (3 hours)**

The objective of the course is to explore the vital topic of information security within the context of business organizations. Topics to be studied will include information security management within a local network, information security management outside of a corporate network, the most common causes of information security breaches, contingency planning, security policy and program requirements, risk mitigation, legal and compliance issues, and project management security. Also, analyzed will be the methods used to secure personnel and customer information in a web-based society. Topics covered will also include threat identification at the network layer, awareness of security breaches and appropriate response, creating an architecture secure for customers and the basic requirements of disaster recovery plans.

**MIT 521 Managing IT Professionals In Dynamic Organizations (3 hours)**

IT professionals face unique situations regardless of their position within a business. Therefore management styles deemed successful in traditional work structures may not be as effective within the fast paced demands of high tech critical sectors. This course will look at the behavioral characteristics of the IT professional in order to ascertain which leader behavior style is most effective in the truly different world of the IT professional. The course is heavily centered on providing students' up-to-date IT leadership best practices as they apply to dynamic and rapidly changing organizations. The course will discuss best practices as they apply to face-to-face IT leadership and to "virtual" IT leadership environments.

**MIT 531 Service Oriented Architecture Concepts (3 hours)**

This course introduces the graduate student to “Service Oriented Architecture” (SOA) and - Middleware, which presents an enterprise architecture framework made up of components that enforce interoperability and loose coupling between dissimilar information systems. The student will understand and explore both technical and organizational issues and how to deal with conflict between the two using design principles and industry-standard organizational models. SOA systems as well as practical hands-on programming of a distributed Web Service based system are addressed.

**MIT 541 E-Business and Online Commerce (3 hours)**

Students will learn about internet-focused business models and the role technology plays in developing and integrating social media and web based information into an organization. Explored in the class are issues surrounding privacy, marketing, architecture, ethics, business models and internal and external user participation in the new forms of communication. Telecommuting will be addressed (risks and benefits) and the impact of regulation on advancement will be explored. Common methods to create and secure ecommerce platforms will be identified and analyzed in the course and examples of successful and unsuccessful models will be studied.

## **PHYSICIAN ASSISTANT STUDIES**

**PAS 701 Clinical Medicine I (8 hours)**

This course covers the medical and surgical topics with associated pharmacology, anatomy & physiology, pathophysiology, laboratory medicine, and clinical skills. It incorporates problem-based learning of common diseases and problems using a body systems approach. Incorporated into the lesson plan is a case study series that allows the student to use critical analysis in the medical decision and problem solving process. Students develop the skills of determining a differential diagnosis when given a clinical presentation making a definitive diagnosis with diagnostic tests, providing appropriate treatment and follow up. Prerequisite: Admission to BUPAP.

**PAS 702 Clinical Medicine II (8 hours)**

This course covers the medical and surgical topics with associated pharmacology, anatomy & physiology, pathophysiology, laboratory medicine, and clinical skills. It incorporates problem-based learning of common diseases and problems using a body systems approach. Incorporated into the lesson plan is a case study series that allows the student to use critical analysis in the medical decision and problem solving process. Students develop the skills of determining a differential diagnosis when given a clinical presentation, making a definitive diagnosis with diagnostic tests, providing appropriate treatment and follow up. Prerequisite: Successful completion of PAS 701.

**PAS 703 Clinical Medicine III (8 hours)**

This course covers the medical and surgical topics with associated pharmacology, anatomy & physiology, pathophysiology, laboratory medicine, and clinical skills. It incorporates problem-based learning of common diseases and problems using a body systems approach. Incorporated into the lesson plan is a case study series that allows the student to use critical analysis in the medical decision and problem solving process. Students develop the skills of determining a differential diagnosis when given a clinical presentation making a definitive diagnosis with diagnostic tests, providing appropriate treatment and follow up. Prerequisite: Successful completion of PAS 702.



**PAS 710 Pharmacology I (3 hours)**

This course is designed as a survey of the subject of pharmacology. The course emphasizes the fundamentals of drug absorption, distribution, metabolism and elimination. The course focuses on the relationship between drugs and receptors, adverse drug reactions, toxicity, indications and contraindications of drugs. Pharmaco-therapeutics with application to clinical patient scenarios is also incorporated in this course. Prerequisite: Admission to BUPAP.

**PAS 711 Pharmacology II (3 hours)**

This course is designed as a comprehensive survey of the subject of pharmacology. The course emphasizes the fundamentals of drug absorption, distribution, metabolism and elimination. The course focuses on the relationship between drugs and receptors, adverse drug reactions, toxicity, indications and contraindications of drugs.

Pharmacotherapeutics with application to clinical patient scenarios is also incorporated in this course. Prerequisite: Successful completion of PAS 710.

**PAS 712 Pharmacology III (3 hours)**

This course is designed as a comprehensive survey of the subject of pharmacology. The course emphasizes the fundamentals of drug absorption, distribution, metabolism and elimination. The course focuses on the relationship between drugs and receptors, adverse drug reactions, toxicity, indications and contraindications of drugs.

Pharmacotherapeutics with application to clinical patient scenarios is also incorporated in this course. Prerequisite: Successful completion of PAS 711.

**PAS 720 Anatomy & Physiology and Pathophysiology I (3 hours)**

This course is an intensive study of human anatomy, physiology, and pathophysiology with clinical applications and medical terminology. It introduces the student to the structure and function of the human body and its organ systems. It is organized to coincide with Clinical Medicine, so as to prepare the student to understand the normal as well as to recognize the abnormal. Using this approach, the student will be able to understand, diagnose and differentiate different disease entities. Prerequisite: Admission to BUPAP.

**PAS 720L Anatomy & Physiology and Pathophysiology Lab I (1 hour)**

This supervised virtual dissection course is designed to develop the Physician Assistant student's working knowledge and comprehensive understanding of the general structures and functional principles of the human body, which will become the anatomic basis on which to relate "abnormal" to "normal" conditions. The student will make use of the knowledge in the competent performance of evaluative and therapeutic techniques, communicate the understanding of anatomy, and gain appreciation of the human body. Prerequisite: Admission to BUPAP.

**PAS 721 Anatomy & Physiology and Pathophysiology II (3 hours)**

This course is an intensive study of human anatomy, physiology, and pathophysiology with clinical applications and medical terminology. It introduces the student to the structure and function of the human body and its organ systems. It is organized to coincide with Clinical Medicine, so as to prepare the student to understand the normal as well as to recognize the abnormal. Using this approach, the student will be able to understand, diagnose and differentiate disease entities. Prerequisite: Successful completion of PAS 720.

**PAS 721L Anatomy & Physiology and Pathophysiology Lab II (1 hour)**

This supervised virtual dissection course is designed to develop the Physician Assistant student's working knowledge and comprehensive understanding of the general structures and functional principles of the human body, which will become the anatomic basis on which to relate "abnormal" to "normal" conditions. The student will make use of the knowledge in the competent performance of evaluative and therapeutic techniques, communicate the understanding of anatomy, and gain appreciation of the human body. Prerequisite: Successful completion of PAS 720L.



**PAS 722 Anatomy & Physiology and Pathophysiology III (3 hours)**

This course is an intensive study of human anatomy, physiology, and pathophysiology with clinical applications and medical terminology. It introduces the student to the structure and function of the human body and its organ systems. It is organized to coincide with Clinical Medicine, so as to prepare the student to understand the normal as well as to recognize the abnormal. Using this approach, the student will be able to understand, diagnose and differentiate different disease entities. Prerequisite: Successful completion of PAS 721.

**PAS 722L Anatomy & Physiology and Pathophysiology Lab III (1 hour)**

This supervised virtual dissection course is designed to develop the Physician Assistant student's working knowledge and comprehensive understanding of the general structures and functional principles of the human body, which will become the anatomic basis on which to relate "abnormal" to "normal" conditions. The student will make use of the knowledge in the competent performance of evaluative and therapeutic techniques, communicate the understanding of anatomy, and gain appreciation of the human body. Prerequisite: Successful completion of PAS 721L.

**PAS 730 Physical Diagnosis I (3 hours)**

Methods of examination, documentation of a complete physical examination, and oral presentation methods will be taught. This will be done using an organ system approach. At the end of this course, the student will be able to put all of the components together in a systematic and efficient fashion and in a complete and orderly form. Prerequisite: Admission to BUPAP.

**PAS 731 Physical Diagnosis II (3 hours)**

Methods of examination, documentation of a complete physical examination, and oral presentation methods will be taught. This will be done using an organ system approach. At the end of this course, the student will be able to put all of the components together in a systematic and efficient fashion and in a complete and orderly form. Prerequisite: Successful completion of PAS 730.

**PAS 732 Physical Diagnosis III (3 hours)**

Methods of examination, documentation of a complete physical examination, and oral presentation methods will be taught. This will be done using an organ system approach. At the end of this course, the student will be able to put all of the components together in a systematic and efficient fashion and in a complete and orderly form. Prerequisite: Successful completion of PAS 731.

**PAS 740 Clinical Skills I (3 hours)**

The course is designed to introduce skill sets that include the description, indications, contraindication, rationale, complications, essential anatomy/ physiology and steps in performing clinical procedures. This knowledge is then applied in the clinical setting by performing the appropriate procedures as they correlate to routine care, identifying, or treating a particular diagnosis. The class is taught in traditional class time with scheduled practicum time and check off evaluations. The class utilizes advanced technology to demonstrate clinical procedures as performed in practice. Prerequisite: Admission into BUPAP.

**PAS 741 Clinical Skills II (3 hours)**

The course is designed to introduce skill sets that include the description, indications, contraindication, rationale, complications, essential anatomy/ physiology and steps in performing clinical procedures. This knowledge is then applied in the clinical setting by performing the appropriate procedures as they correlate to routine care, identifying, or treating a particular diagnosis. The class is taught in traditional class time with scheduled practicum time and check off evaluations. The class utilizes advanced technology to demonstrate clinical procedures as performed in practice. Prerequisite: Successful completion of PAS 740.

**PAS 742 Clinical Skills III (3 hours)**

The course is designed to introduce skill sets that include the description, indications, contraindication, rationale, complications, essential anatomy/ physiology and steps in performing clinical procedures. This knowledge is then applied in the clinical setting by performing the appropriate procedures as they correlate to routine care, identifying, or treating a particular diagnosis. The class is taught in traditional class time with scheduled practicum time and check off evaluations. The class utilizes advanced technology to demonstrate clinical procedures as performed in practice. Prerequisite: Successful completion of PAS 741.

**PAS 750 Lab Diagnostics I (2 hours)**

This course introduces the Physician Assistant student to the diagnostic testing in clinical medicine. The content is logically organized with a body system approach and covers laboratory tests, when to use and how to interpret and effectively utilize the results. Prerequisite: Admission to BUPAP.

**PAS 751 Lab Diagnostics II (2 hours)**

This course introduces the Physician Assistant student to the diagnostic testing in clinical medicine. The content is logically organized with a body system approach and covers laboratory tests, when to use and how to interpret and effectively utilize the results. Prerequisite: Successful completion of PAS 750.

**PAS 752 Lab Diagnostics III (2 hours)**

This course introduces the Physician Assistant student to the diagnostic testing in clinical medicine. The content is logically organized with a body system approach and covers laboratory tests, when to use and how to interpret and effectively utilize the results. Prerequisite: Successful completion of PAS 751.

**PAS 760 Medical Terminology (1 hour)**

This course introduces the Physician Assistant student to the language of medicine. The content is logically organized with a body system approach. This course will also provide a brief review of anatomic terminology. Prerequisite: Admission to BUPAP.

**PAS 761 EKG (2 hours)**

A course designed to educate the Physician Assistant student on the utilization and interpretation of the electrocardiogram. This course will utilize lecture, reading assignments, and laboratory experiences. Course content includes an overview of the electrophysiology of the heart, basic approach to the evaluation of an electrocardiogram, obtaining a 12-lead electrocardiogram and rhythm strip, recognition of cardiac abnormalities such as dysrhythmias, ischemia, infarction, cardiac inflammatory conditions, conduction abnormalities, and chamber enlargement. Prerequisite: Admission to BUPAP.

**PAS 762 Behavioral Medicine (2 hours)**

The course of behavioral medicine will present an introduction to the neurobiological, psychobiological, emotional, social and cultural influences on mental health and illness in the practice of primary care medicine. Personality, sexual, emotional and behavioral development across the life span will be addressed. Principles of violence identification and prevention will be examined. Instruction and practice in basic counseling skill will be reviewed. Instruments for the evaluation and assessment of psychiatric disorders will be presented. This class will present the formulation of Psychiatric assessment, diagnosis, and treatment. Prerequisite: Admission to BUPAP.

**PAS 763 Radiology (2 hours)**

A course designed to educate the Physician Assistant student on the utilization and interpretation of radiological diagnostic tests. This course will utilize lecture, reading assignments, and laboratory experiences. Course content includes an overview of radiology, its history, and interpretation of x-rays, competence in ordering the correct diagnostic test for presenting complaint, introduction to fluoroscopy, computerized tomography, magnetic resonance imaging, ultrasound, nuclear medicine, and angiography. Prerequisite: Admission to BUPAP.

**PAS 770 The PA Profession (2 hours)**

This course explores the history of the PA profession, the role of the PA in today's health care system and the factors affecting them. Additional topics include credentialing, licensing, policies and procedures, regulations governing scope of practice, and the development of professional organizations for physician assistants, issues of professionalism, physician/PA relationships and ethics. Prerequisite: Admission to BUPAP.

**PAS 780 Genetics (2 hours)**

This course is a survey of medical genetics. The goal is to equip students to understand the role of genetics in the practice of medicine. This will involve the ability to understand the medical genetics literature as well as the clinical applications of genetic knowledge in the care of individual patients. Prerequisite: Admission to BUPAP.

**PAS 781 Geriatrics (2 hours)**

This is a course designed to cover the physical, social, legal and ethical care of the older patient by a primary care physician assistant. Prerequisite: Admission to BUPAP.

**PAS 782 Pediatrics (2 hours)**

This is a course designed to introduce the PA student to pediatric medicine. The course will cover normal growth and development, the pediatric well-baby exam, immunizations and specific medical diseases and disorders as they relate to the pediatric patient. Prerequisite: Admission to BUPAP.

**PAS 790 Critical Thinking (2 hours)**

This course is an intensive study in thinking critically about the information and evidence needed to produce sound clinical decisions. It will prepare the student to cope with the vast amount of medical literature produced every year. This course is structured to equip the student to effectively evaluate medical literature and apply the information acquired to clinical decision making. In addition, this course will touch on the topics of health policy, healthcare reform, health informatics, and health information technology as they relate to the student's need for the critical application of information. This course is presented in an on-line, asynchronous format.

**PAS 801 Family Medicine I (5 hours)**

Under the guidance of a qualified preceptor, this course will allow the student to provide care for the Family Medicine patient. This course will ensure that students are exposed to common disorders and procedures that are encountered in the Family Medicine setting. The course will take place in the urgent care setting, outpatient clinic, inpatient hospital setting and/or nursing home. The rotation will provide opportunities for the student to be responsible for patients of all ages, from the initial visit through possible hospitalization and follow-up. The student will have the opportunity to obtain a medical history, perform physical exams, develop a differential diagnosis, order/interpret appropriate diagnostic studies, propose a treatment plan, perform common procedures, and provide patient education on diagnosis, prevention and health maintenance of disease processes. This rotation will provide exposure to common clinical skills and procedures that are specific to Family Medicine.

**PAS 802 Family Medicine II (5 hours)**

This is a continuation of Family Medicine I. Under the guidance of a qualified preceptor, this course will allow the student to provide care for the Family Medicine patient. This course will ensure that students are exposed to common disorders and procedures that are encountered in the Family Medicine setting. The course may take place in the urgent care setting, outpatient clinic, inpatient hospital setting, and/or nursing home. The rotation will provide opportunities for the student to be responsible for patients of all ages, from the initial visit through possible hospitalization and follow-up. The student will have the opportunity to perform physical exams, develop a differential diagnosis, order/interpret appropriate diagnostics, propose a treatment plan, perform common procedures, and provide patient education on diagnosis, prevention and health maintenance of disease processes. This rotation will provide exposure to common clinical skills and procedures that are specific to Family Medicine.

**PAS 803 Internal Medicine (5 hours)**

Under the guidance of a qualified preceptor, this course will allow the student to provide care for the Internal Medicine patient. This course will ensure that students are exposed to common disorders and procedures that are encountered in the Internal Medicine setting. The course will take place in the outpatient clinic, inpatient hospital setting, long term care facility and/or intensive care unit. The rotation will provide opportunities for the student to be responsible for adult and geriatric patients from the initial visit through possible hospitalization and follow up. The student will have the opportunity to obtain a medical history, perform physical exams, develop a differential diagnosis, order/interpret appropriate diagnostic tests, propose a treatment plan, and provide patient education on diagnosis, prevention and health maintenance of disease processes. This rotation will provide exposure to common clinical skills and procedures that are specific to Internal Medicine.

**PAS 804 Emergency Medicine (5 hours)**

Under the guidance of a qualified preceptor, this course will allow the student to provide care for the Emergency Medicine patient. This course will ensure that students are exposed to common disorders and procedures that are encountered in the Emergency Medicine setting. The course will take place in the urgent care or emergency department. The rotation will provide opportunities for the student to be responsible for patients of all ages, from the initial visit through possible hospitalization. The student will have the opportunity to obtain medical histories, perform physical exams, develop a differential diagnosis, order/interpret appropriate diagnostic tests, perform common procedures, propose a treatment plan, and provide patient education on diagnosis and treatment of disease processes. This rotation will provide exposure to common clinical skills and procedures that are specific to Emergency Medicine.

**PAS 805 General Surgery (5 hours)**

Under the guidance of a qualified preceptor, this course will allow the student to provide care for the General Surgery patient. This course will ensure that students are exposed to common disorders and procedures that are encountered in the General Surgery setting. The course may take place in the outpatient clinic, freestanding surgical center, operating room and/or inpatient hospital setting. The rotation will provide the opportunity for the student to be responsible for patients of all ages, from the initial visit through possible hospitalization and follow-up (including pre-operative, intra-operative and post-operative care). The student will have the opportunity to obtain medical histories, perform physical exams, develop a differential diagnosis, order/interpret appropriate diagnostic tests, propose a treatment plan, perform common procedures, and provide patient education on diagnosis, prevention and health maintenance of disease processes. This rotation will provide exposure to common clinical skills and procedures that are specific to General Surgery.

**PAS 811 Mental/Behavioral Health (5 hours)**

Under the guidance of a qualified preceptor, this course will allow the student to provide care for the Behavioral Medicine patient. This course will ensure that students are exposed to common disorders encountered in the Behavioral Medicine setting. The course may take place in the outpatient clinic, group home, schools, prison and/or inpatient hospital setting. The rotation will provide opportunities for the student to be responsible for patients of various ages, from the initial visit through possible hospitalization and follow-up. Students will participate in activities of this rotation such as lectures, case management meetings, and group therapy sessions as directed by the preceptor. The student will have the opportunity to observe/perform intake exams, develop a differential diagnosis, order/interpret appropriate diagnostic tests, propose a treatment plan, and provide patient education on diagnosis, prevention, and health maintenance of disease processes.

**PAS 813 Family Medicine/Pediatric Medicine (5 hours)**

Under the guidance of a qualified preceptor, this course will allow the student to provide care for the Pediatric Medicine patient. This course will ensure that students are exposed to common disorders and procedures that are encountered in the Pediatric Medicine setting. The course will take place in the outpatient clinic and/or inpatient hospital setting. The rotation will provide opportunities for the student to be responsible for patients aged 0-18, from the initial visit through possible hospitalization and follow-up. The student will have the opportunity to obtain medical and family histories, perform physical exams, develop a differential diagnosis, order/interpret appropriate diagnostic tests, propose a treatment plan, perform common procedures and provide patient/family education on diagnosis, prevention and health maintenance of disease processes. This rotation will provide exposure to common clinical skills and procedures that are specific to Pediatric Medicine.

**PAS 814 Family Medicine/Women's Health (5 hours)**

Under the guidance of a qualified preceptor, this course will ensure that students are exposed to common disorders and procedures that are encountered in the women's health setting. The course will take place in the outpatient clinic, inpatient hospital setting and/or operating room. The rotation will provide opportunities for the student to be responsible for adult and geriatric patients, from the initial visit through possible hospitalization and follow-up. This rotation will focus on general gynecologic health as well as routine pre-natal care. The student will have opportunity to obtain histories, perform physical exams, develop a differential diagnosis, order/interpret appropriate diagnostic tests, propose treatment plans, perform common procedures, and provide patient/family education on diagnosis, prevention and health maintenance of disease processes. This rotation will provide exposure to common clinical skills and procedures that are specific to women's health.

**PAS 815 Summative (3 hours)**

The purpose of the summative evaluation is to ascertain the student's readiness to graduate based on a review of the entire graduate student career. The course will allow the student to present a portfolio to the Promotion/Retention/Disciplinary committee that consists of a number of items to support the student's application for graduation. In addition to the academic year grades, professional evaluations, clinical year grades and preceptor evaluations, there will be assignments specific to the summative evaluation to be completed during the course that will provide a comprehensive review of the student's ability to function as a successful graduate physician assistant.

**PAS 816 Business of Medicine (3 hours)**

This course is designed to provide students an understanding of the business of medicine including group practice models, management, human resources, insurance products, CPT and ICD coding, third party reimbursement as well as potential impact of health care reform. The student will develop skills related to resume design, contract negotiation and interviewing as well as sufficient knowledge to be involved in management of the medical practice. Prerequisite: Successful completion of the clinical year rotation schedule.

**PAS 901 Elective I (5 hours)**

Under the guidance of a qualified preceptor, this course will allow the student to provide care for patients in a clinical setting tailored to the student's particular interest. Approved supervised clinical experiences may be completed in any medical or surgical specialty. The student has discretion in selecting his/her elective and may design his/her own elective rotation or choose from multiple disciplines after consultation with their faculty advisor and the Clinical Director. All elective rotations must subsequently be approved by the Clinical or Program Director. This course will ensure that students are exposed to common disorders and procedures that are encountered in that particular discipline. The experience may take place in the outpatient clinic, inpatient hospital setting and/or other approved settings. The rotation will provide opportunities for the student to learn about a specific disease process in great detail and to complete a written paper describing that disease, its diagnosis and treatment utilizing evidence based medicine.

**PAS 902 Elective II (5 hours)**

Under the guidance of a qualified preceptor, this course will allow the student to provide care for patients in a clinical setting tailored to the student's particular interest. Approved supervised clinical experiences may be completed in any medical or surgical specialty. The student has discretion in selecting his/her elective and may design his/her own elective rotation or choose from multiple disciplines after consultation with their faculty advisor and the Clinical Director. All elective rotations must subsequently be approved by the Clinical or Program Director. This course will ensure that students are exposed to common disorders and procedures that are encountered in that particular discipline. The experience may take place in the outpatient clinic, inpatient hospital setting and/or other approved settings. The rotation will provide opportunities for the student to learn about a specific disease process in great detail and to complete a written paper describing that disease, its diagnosis and treatment utilizing evidence based medicine.

**PAS 903 Elective III (5 hours)**

Under the guidance of a qualified preceptor, this course will allow the student to provide care for patients in a clinical setting tailored to the student's particular interest. Approved supervised clinical experiences may be completed in any medical or surgical specialty. The student has discretion in selecting his/her elective and may design his/her own elective rotation or choose from multiple disciplines after consultation with their faculty advisor and the Clinical Director. All elective rotations must subsequently be approved by the Clinical or Program Director. This course will ensure that students are exposed to common disorders and procedures that are encountered in that particular discipline. The experience may take place in the outpatient clinic, inpatient hospital setting and/or other approved settings. The rotation will provide opportunities for the student to learn about a specific disease process in great detail and to complete a written paper describing that disease, its diagnosis and treatment utilizing evidence based medicine.