

University Seminar

This course is designed to guide new students through their transition into Lincoln University's community. It will also introduce each student to the collegiate experience in **two** sections. The first section will: acquaint each student with the rich history of Lincoln University, introduce each student to general education requirements as well as the university's academic programs, student handbook, financial services, registration process, policies and procedures.

The second section will: explore college survival skills, identify resources utilized for academic success, advance research abilities, develop realistic goal setting and critical thinking skills, progress soft skills (communication skills, time management, interpersonal skills, etc.) and institute hard skills (requirements for jobs, computer literacy, proper usage of Canvas, etc.)

Student Learning Objectives

Upon the successful completion of this course, students will be able to

1. Demonstrate a fundamental knowledge of the history of Lincoln University.
2. Understand the importance of adapting to a diverse collegiate environment.
3. Identify and create a realistic academic plan to achieve set goals.
4. Compile and utilize all student resources that are readily available.
5. Explain relevant leadership and interpersonal skills utilized in academic and non-academic settings.
6. Employ effective study skills.
7. Demonstrate active critical thinking and reading by participating in class discussion and activities.
8. Connect and network with people at Lincoln University, including advisors, tutors, peers, instructors, and other faculty/staff/administrators, and access student support resources.
9. Interpret the policies and programs outlined in the *Lincoln University Undergraduate Bulletin*.
10. Demonstrate an understanding of the rights and responsibilities of students at Lincoln University as outlined in the *Lincoln University Student Handbook*.
11. Apply learned skills as a productive citizen in and out of the Lincoln community.

Assessment Program

Assessment measures allow students, faculty, and staff to determine whether the students have met the objectives of the course. For this general education course, the primary measure of assessment is a final paper, quizzes, discussion posts and/or presentations, which reflects the transition from high school to college.

Course Description

This course is required for all full-time freshmen during their first semester of enrollment and for part-time freshmen by no later than the semester in which they will accumulate 16 credit hours. The University Seminar requirement is waived for students transferring 30 or more hours or for students entering Lincoln University with a postsecondary degree.

GE 101 UNIVERSITY SEMINAR. (1) This course introduces new students to the rich history of the institution, student handbook, financial aid, registration and relevant policies and procedures. Emphasis will also be on topics that cover college survival skills, stress management, problem solving, financial literacy, health and wellness.

AGRICULTURE AND ENVIRONMENTAL SCIENCES

Abua Ikem, Professor of Research/Analytical Chemistry, Dept. Head
Adrian Andrei, Professor, Wildlife Science
Frieda Eivazi, Professor of Research/Soil Science
Samson Tesfaye, Professor of Research/Geology
Wesseh Wollo, Professor of Research/Agribusiness
John Yang, Professor of Research/Soil Chemistry
Majed El-Dweik, Professor of Research/Nanotechnology
James Wetzel, Associate Professor of Research/Aquaculture
Tumen Wuliji, Associate Professor of Research/Animal Science
Guolu Zheng, Assistant Professor of Research/Microbiology
Jonathan Egilla, Assistant Professor of Research/Plant Science
Safiullah Pathan, Assistant Professor of Research/Crop Science
Tunsisa Hurisso, Assistant Professor of Research/Soil Science
Azad Henareh Khalyani, Assistant Professor of Research/Forestry
Babu Valliyodan, Assistant Professor of Research/Molecular Biology

Mission

The mission of the Department of Agriculture & Environmental Sciences is to provide educational opportunities for students from various backgrounds to be successful in a diverse society. The Department is dedicated to teaching the principles and concepts of agriculture and their applications. The curricula prepare students for employment, professional advancement, and graduate studies. The Department accomplishes its goals through small classes and individual student attention in a nurturing educational environment.

Degrees Offered

Bachelor of Science in Agriculture with emphasis in

- Agribusiness
- Animal Science
- Natural Resource Management
- Plant & Soil Science

Minors:

- Agriculture
- Geographic Information Systems
- Wildlife Management

Pre-Professional Training:

Pre-Veterinary Medicine

Objectives

Students completing a degree in the Department of Agriculture & Environmental Sciences will be prepared:

- 1) To demonstrate fundamental understanding, critical thinking skills, reasoning, analysis and decision making relevant to the practices of agriculture, agribusiness, and environmental sciences.
- 2) To demonstrate competence in written and verbal communication.
- 3) To pursue advanced studies in agriculture and related disciplines.

Assessment Program

Assessment of knowledge in the major area will occur during the junior and senior years. The assessment will include written examination of the student's scientific experiences. Primary emphasis will be placed on the "Major Field Assessment Test" in the student's major area to be taken during the last semester.

Other assessment measures:

- 1) Internships completed.
- 2) Alumni survey.
- 3) Follow-up surveys with employers.
- 4) Exit interviews of graduates.

Required Courses

General Education Requirements: A minimum grade of "C" is required in BIO 150, BIO 104L, CHM 101, and MAT 113 or MAT 117.

Core Agriculture Degree Requirements: All Agriculture majors must complete

All the courses listed under "Course Pathway Leading to a Bachelor of Science Degree with a major in Agriculture" with a minimum grade of "C."

Core Course Descriptions

Listed courses may not be taught every semester or every year. The department head and departmental advisors have information about projected course offerings for a semester/year.

AGR 101 INTRODUCTION TO ANIMAL SCIENCE. (3, fa). An overview of the livestock industry including animal production, breeding and genetics, physiology, nutrition, health and marketing. Three hours lecture.

ENV 103 INTRODUCTION TO ENVIRONMENTAL SCIENCE. (3, sp, fa). Introduction to the principles and basic facts of the natural environment. Topics include earth materials, land forms, weather and climate, vegetation and soils, and the processes of environmental changes including contamination and their implications to economic and human systems. Three hours lecture.

- AGR 102 INTRODUCTION TO PLANT SCIENCE.** (3, sp). An introduction to crop plants, environmental, cultural and social factors influencing the cultivation and utilization of plants. Plant structure, chemistry, growth, genetics, biodiversity, and processes. Two hours lecture and one two hour laboratory. Prerequisites: ENG 101, BIO 150 and BIO 104L or BIO 150L.
- AGR 220 INTRODUCTION TO AGRICULTURAL ECONOMICS.** (3, fa). Economic principles as they relate to agribusiness, production activities, marketing activities, and the behavior of consumers, the influence of nonfarm agencies and institutions, and the role of government are studied and related to the agribusiness program. Three hours lecture
- AGR/GIS 208 INTRODUCTION TO GEOSPATIAL INFORMATION SCIENCE.** (3, fa). Covers the basic principles of remote sensing, global positioning system and geographic information systems. It also introduces the application of GIS in diverse fields. Two hours lecture and one two hour laboratory.
- AGR 211 SOILS IN OUR ENVIRONMENT.** (3, sp). Constitution of the soil and the various biological, chemical and physical processes as they relate to plant growth. Three hours lecture and one two hour laboratory. Prerequisites: CHM 101 or CHM 103 and CHM 104L or consent of instructor.
- AGR 305 WILDLIFE DAMAGE MANAGEMENT.** (3, sp, even). An overview of wildlife as misplaced resources; wildlife damage and its measurement; social, ethical and human dimensions of damage management; present management practices; research on future management alternatives. Two hours lecture and one two hour laboratory.
- AGR 306 HORTICULTURE.** (3, sp, even). Fundamentals of horticulture crop management, classification, principles of production, preservation, utilization and management. Two hours lecture and one two hour laboratory. Prerequisites: AGR 102.
- AGR 312 AGRONOMIC CROPS.** (3, fa). Fundamentals of energy and field crops, management, classification, principles of production, preservation, utilization and distribution. two hours lecture and one two hour laboratory. Prerequisites: AGR 102 and AGR 211.
- AGR 313 PASTURES AND FORAGES.** (3, sp). Production, management and utilization of annual and perennial forage plants for pasture, hay and silage. Two hours lecture and one two hour laboratory. Prerequisites: AGR 102 and AGR 211.
- AGR 320 AGRICULTURE MARKETING.** (3, sp, odd). Market development and agencies involved in concentration, dispersion, and equalization of products as they affect agriculture issues. Three hours lecture. Prerequisites: AGR 220, ECO 201 and junior or senior standing.

- AGR 324 NUTRIENT MANAGEMENT AND SOIL HEALTH.** (3, sp, odd). The study of basic concepts of soil fertility and biogeochemistry and how soil and environmental properties affect nutrient availability and cycling; emphasizes the ways to improve nutrient management without damaging soil health.
Two hours lecture and one two hour laboratory. Prerequisite: AGR 211.
- AGR 325 AGRICULTURE EXPERIENCE (Internship or Research)** (3, su, fa, sp). There are two options: **(A)** Practical work experience for a minimum duration of 10 weeks. This is to include a complete written report of the experience. **(B)** Individual research project in the area of student's interest. This is to include a complete written report of the findings. Consent of instructor required. This course is designated as writing intensive.
- AGR 341 PRINCIPLES OF AGROFORESTRY** (3, fa). Principles and practical aspects of forestry, including silviculture, tree and stand measurements, forest fires and protection, restoration, and conservation. Two hours lecture and one two hour lab. Prerequisites: BIO 150 and 150L or 104L or approval of instructor.
- AGR 360A FUNDAMENTALS OF AQUACULTURE.** (3, fa). An overview of the principles and practices of farming aquatic organisms, including fish, mollusks, crustaceans and aquatic plants, particularly for human food.
Three hours lecture. Prerequisites: BIO 150 and BIO 104L or BIO 150L .
- AGR 401 AGRICULTURE SEMINAR.** (1, fa, sp). Oral and written reports on topics in agriculture. One hour lecture. This course is designated as writing intensive.
- AGR 412 AGRICULTURE BUSINESS MANAGEMENT.** (3, sp). Examination of the basic functions of management: planning, organizing, and controlling. Development of the understanding of agribusiness organizations and of the decision-making skills required in agribusiness management. Prerequisites: AGR 220
- AGR 414 SOIL, WATER, AIR QUALITY MANAGEMENT** (3, sp). Studies of soil, water, and air quality degradation process, causes and factors; introduction of the knowledge and skills in mitigating the different forms of degradation using contemporary management practices. Two hours lecture and two hour lab. Prerequisite: AGR 211.
- AGR 430 ENVIRONMENTAL MONITORING AND REMEDIATION.** (3, sp). Study of inorganic and organic contaminants, their sources, movement in the environment, monitoring and remediation. Two hours lecture and one two hour lab. Prerequisites: ENV 103, AGR 211, and CHM 101.

AGR 423 AGRICULTURE PROGRAMS AND POLICIES. (3, fa). A study of the effect that governmental programs and policies have had on the price structure and competitiveness of agricultural products on the domestic and export markets. Three hours lecture. Prerequisites: AGR 220 and junior or senior standing.

EMPHASIS AREAS /ELECTIVES

Agriculture Elective Course Descriptions

Students must take a minimum of 15 credits of agriculture electives from an emphasis area(s) of their choice. Courses from related fields/areas can also be used to fulfill elective requirements with prior permission from the advisor. Elective courses also require a minimum grade of "C."

AGR 300 MEAT SCIENCE. (3, fa, even). This is an introductory course that covers conversion of muscle to meat, meat quality, meat color, meat cooking, meat grading, food safety, meat inspection, meat curing and sausage processing. Three hours lecture. Prerequisite: AGR 101.

AGR 308 BEEF AND DAIRY CATTLE PRODUCTION. (3, sp, even). Current production methods involved in the development and operation of a livestock enterprise. Special emphasis on beef cattle with some consideration given to dairy cattle. Two hours lecture and one two hour laboratory. Prerequisite: AGR 101.

AGR 315 SHEEP AND GOAT PRODUCTION. (3, sp, odd). Current production methods involved in the development and operation of a sheep and goat enterprise. Two hours lecture and one two hour laboratory. Prerequisite: AGR 101.

AGR 321 NATURAL RESOURCES POLICY AND LAW. (3, sp, even). Students will be provided with historical and legal perspectives of the current state, national, and international policies governing our natural resources and the agencies responsible for implementing those policies. Three hours lecture.

AGR 323 AGRICULTURAL FUTURES MARKETING. (3, sp, even). This course is designed to introduce students to the composition of the futures and options markets, how the cash and futures markets are related, basis formations, hedging and speculation, and chart reading to determine trends. Three hours lecture. Prerequisites: AGR 220 and AGR 320.

AGR 331 ANIMAL FEEDS & NUTRITION. (3, sp odd). Course that takes a practical approach to livestock nutrition including physical/chemical composition of feedstuffs, feed processing/ preparation, nutrient interactions, and application of nutritional principles to feeding ruminant and monogastric animals. Two hours lecture and one two hour laboratory. Prerequisite: AGR 101

- AGR 406 SPECIAL TOPICS IN AGRICULTURE.** (3 fa, sp). Topics to be listed in course schedule; may or may not include laboratory; may re-enroll as topic changes. Prerequisite: Consent of instructor.
- AGR 409 PLANT PROPAGATION.** (3, sp, odd). The art and science of propagating plants; the physiological and environmental factors essential for propagating plants for human benefits. Two hours lecture and one two hour laboratory. Prerequisite: AGR 102.
- AGR 417 WILDLIFE CONSERVATION.** (3, sp, odd). Basic principles and practices of wildlife conservation; special emphasis on population and habitat control. Two hours lecture and one two hour laboratory. Prerequisites: BIO 150 and BIO 150L or 104L.
- AGR 428 INTEGRATED PEST MANAGEMENT.** (3, fa). Symptoms, causes and control of animal and plant diseases and classification; identification, distribution, life cycle, economic impact and control of pests. Two hours lecture and one two hour laboratory. Prerequisites: AGR 102 and AGR 211.
- AGR 429 PLANT PHYSIOLOGY.** (4, fa, odd). The study of how plants function. Chemical and physical processes at the level of the organism, organ, cell, organelle and biomolecule. Three one hour lectures and one three hour laboratory. Prerequisites: BIO 105 and CHM 102.
- AGR 435 WETLANDS MANAGEMENT.** (3, fa, even). A comprehensive presentation of biological, physical, chemical, and ecological aspects of major wetland types in North America. Two hours lecture and one two- hour laboratory. Prerequisites: CHM 101, AGR 208, and AGR 211.
- GIS 316 FUNDAMENTALS OF GEOGRAPHIC INFORMATION SYSTEMS.** (3, sp, odd). Examines basic technical and analytical methods related to spatial databases, and geographic analysis between real world issues and digital relationships. Lectures will cover data sources and collection, analysis methods and computer technology. Two hours lecture and one two hour laboratory. Prerequisite: GIS 208 and junior/senior standing or instructor's written permission.
- ACC 246 PRINCIPLES OF ACCOUNTING I.** (3, fa, sp, su). Fundamental principles of financial accounting as applied to sole proprietorships and partnerships. Prerequisite: a minimum grade of "C" in MAT 111 or higher.
- BAD 275 BUSINESS LAW I.** (3, fa, sp, su). Introduction to basic principles of business law including torts, crimes, contract law, product liability, consumer protection, and labor law. Also covered are sales, warranties, and an introduction to the Uniform Commercial Code. Prerequisite Sophomore Standing.

AGR 420 INTERNATIONAL AGRICULTURE MARKETING AND TRADE. (3, fa, even). Examination of international trade relations relevant to agriculture products. Emphasis will be on the development of modern trade theory, tariffs, non-tariff trade barriers, trade policies, and regional trading arrangements. Topics relating to international monetary relations, such as balance of payments and foreign exchange rate determination. Three hours lecture. Prerequisites: AGR 220 and AGR 320.

GIS 440 REMOTE SENSING OF THE ENVIRONMENT. (3, sp, odd). Covers the propagation of electromagnetic radiation and its interaction with surface features, digital image processing, and the application of remote sensing in vegetation, soil, water, and urban landscape studies. Two hours lecture and one two hour laboratory. Prerequisite: GIS 208 and junior/senior standing or written permission of instructor.

AGRICULTURE (Minor)

Required Courses

Minor: A minimum grade of "C" in AGR 101, 102, 211, 220, plus 6 hours of AGR electives at 300-400 level.

Course Descriptions

Listed courses may not be taught every semester or every year. The department head and departmental advisors have information about projected course offerings or a semester/year.

AGR 101 INTRODUCTION TO ANIMAL SCIENCE. (3, sp). An overview of the livestock industry including animal production, breeding and genetics, physiology, nutrition, health and marketing. Three hours lecture.

AGR 102 INTRODUCTION TO PLANT SCIENCE. (3, sp). An introduction to crop plants, environmental, cultural and social factors influencing the cultivation and utilization of plants. Plant structure, chemistry, growth, genetics, biodiversity, and processes. Two hours lecture and one two hour laboratory. Prerequisites: ENG 101, BIO 103 and BIO 104L.

AGR 211 SOILS IN OUR ENVIRONMENT. (4, sp). Constitution of the soil and the various biological, chemical and physical processes as they relate to plant growth. Three hours lecture and one two hour lab. Prerequisites: CHM 101 or 103 and 104L or consent of instructor.

AGR 220 INTRODUCTION TO AGRICULTURAL ECONOMICS. (3, fa). Economic principles as they relate to agribusiness, agriculture, production activities, marketing activities, the behavior of consumers, the influence of non-farm agencies and institutions, and the role of government are studied and related to the agribusiness economy. Three hours lecture.

GEOSPATIAL INFORMATION SCIENCES (Minor)

Objective

To study the principles and applications of the three components of geospatial information sciences: namely geographic information system, remote sensing and global positioning system.

Required Courses

Minor: A minimum grade of “C” in GIS 208, GIS 301, GIS 308, GIS 316, GIS 416 and GIS 440.

Course Descriptions:

Listed courses may not be taught every semester or every year. The department head and departmental advisors have information about projected course offerings for a semester/year.

AGR/GIS 208 INTRODUCTION TO GEOSPATIAL INFORMATION SCIENCE.

(3, fa). Covers the basic principles of remote sensing, global positioning system and geographic information systems. It also introduces the application of GIS in diverse fields. Two hours lecture and one two hour laboratory.

GIS 301 FUNDAMENTALS OF GLOBAL POSITIONING SYSTEM. (3, sp).

Designed to introduce students to Global Positioning System (GPS) technology. Lectures will address geodesy, satellite orbits, data transmission, data collection and processing. Laboratory exercises will provide familiarity with the operation of GPS receivers. Two hours lecture and one two hour laboratory. Prerequisite: GIS 208.

GIS 308 COMPUTER ASSISTED CARTOGRAPHY. (3, fa).

This course is designed to teach the fundamentals of computer cartography to students who may have no background in computer science or cartography. Students will be introduced to a range of cartographic, GIS and mapping software. Two hours lecture and one two hour laboratory. Prerequisite: GIS 208.

GIS 316 FUNDAMENTALS OF GEOGRAPHIC INFORMATION SYSTEMS. (3,

sp). Examines basic technical and analytical methods related to spatial databases, and geographic analysis between real-world issues and digital relationships. Lectures will cover data sources and collection, analysis methods and computer technology. Two hours lecture and one two hour laboratory. Prerequisite: GIS 208 and junior/senior standing or instructor's written permission.

GIS 416 GEOGRAPHIC INFORMATION SYSTEMS APPLICATIONS. (3, sp). GIS applications course will examine advanced technical and analytical methods related to spatial databases and geographic objects. Coordinate systems vector/raster structures, modeling and other items related to GIS projects will be covered. Two hours lecture and one two hour laboratory. Prerequisite: GIS 316

GIS 420 RESEARCH IN GEOSPATIAL INFORMATION SCIENCE. (1-3, fa, sp, su). Individual research project in the area of student's interest. This is to include a written report of the findings. Consent of instructor required.

GIS 440 REMOTE SENSING OF THE ENVIRONMENT. (3, fa). Covers the propagation of electromagnetic radiation and its interaction with surface features, digital image processing, and the application of remote sensing in vegetation, soil, water, and urban landscape studies. Two hours lecture and one two hour laboratory. Prerequisite: GIS 208 and junior/senior standing or written permission of instructor.

WILDLIFE MANAGEMENT (Minor)

Objective

To study the principles and practices used in the conservation and management of habitats and wildlife resources for aesthetic, ecological and recreational uses.

Required Courses

Minor: A minimum grade of "C" in AGR 305, AGR 321, AGR 431, AGR 417, GIS 316, and AGR 435

Course Descriptions

Listed courses may not be taught every semester or every year. The department head and departmental advisors have information about projected course offerings for a semester/year.

AGR 305 WILDLIFE DAMAGE MANAGEMENT. (3, sp). An overview of wildlife as misplaced resources; wildlife damage and its measurement; social, ethical and human dimensions of damage management; present management practices; research on future management alternatives. Two hours lecture and one two hour laboratory.

AGR 321 NATURAL RESOURCES POLICY AND LAW. (3, sp, even). Students will be provided with historical and legal perspectives of the current state, national, and international policies governing our natural resources and the agencies responsible for implementing those policies. Three hours lecture.

AGR 417 WILDLIFE CONSERVATION. (3, sp, odd). Basic principles and practices of wildlife conservation; special emphasis on population and habitat control. Two hours lecture and one two hour laboratory. Prerequisites: BIO 150 and bio 150I or BIO 104L.

GIS 316 FUNDAMENTALS OF GEOGRAPHIC INFORMATION SYSTEMS. (3, sp). Examines basic technical and analytical methods related to spatial databases, and geographic analysis between real-world issues and digital relationships. Lectures will cover data sources and collection, analysis methods and computer technology. Two hours lecture and one two hour laboratory. Prerequisite: GIS 208 and junior/senior standing or instructor's written permission.

AGR 414. SOIL, WATER, AIR QUALITY MANAGEMENT (3, sp). Studies of soil, water, and air quality degradation process, causes and factors; introduction of the knowledge and skills in mitigating the different forms of degradation using contemporary management practices. Two hours lecture and two hour lab. Prerequisite: AGR 211. Name, number, description changes.

AGR 435 WETLANDS MANAGEMENT. (3, fa, even). A comprehensive presentation of biological, physical, chemical, and ecological aspects of major wetland types in North America. Two hours lecture and one two- hour laboratory. Prerequisites: CHM 101, GIS 208, and AGR 211.

ART

Associate Professor:

Nyaberi, David

Assistant Professor:

Crow, James

Instructor:

Garner, Essex

Mission

The art program provides a positive environment where students can explore their own creativity and freely express themselves through art. Students will have the opportunity to improve their artistry by honing their technical, analytical and writing skills. The faculty are committed to helping students explore and perfect the individual expression of their own identities as artists and persons, according to their abilities and interests.

A thorough and varied curriculum offers a solid base for careers in art education, commercial design, studio art, or graduate study. Courses in drawing, painting, water color, commercial art, design and color theory, ceramics, jewelry, fibers, sculpture, art history, printmaking and art education are offered.

Students make a serious commitment to their art and routinely participate in local, state, and national art competitions. Over the past ten years, Lincoln University art majors have won an average of 30 awards per year in various art competitions.

Art students will be able to take advantage of the MAC computer lab with terminals for each student, color printers, color scanners, and some of the latest software for design, illustrating, photo imaging and photo editing.

Degrees Offered

Bachelor of Science with a major in Art

Bachelor of Science in Education with a major in Art

Objectives

Upon completion of degree requirements in the Art program at Lincoln University, each student should be able to demonstrate the following:

1. A mastery of art content necessary to be a competent and effective teacher of art, a studio artist and/or a commercial artist
2. Technical skills which are adequate to meet the needs of artistic self-expression
3. The ability to analyze art and to form and defend evaluative judgments of art;
4. Knowledge of historical and stylistic periods of art history
5. Highly developed skills in oral and written communication
6. An understanding of health and safety concerns relative to art involvement; and
7. The necessary background to be successful at the graduate level

Course Descriptions

Listed courses may not be taught every semester or every year. The department head and art advisors have information about projected course offerings for a semester/year.

- ART 100 INTRODUCTION TO ART** (3, fa, sp, su). An introduction to the visual arts including the study of the elements, principles, media, techniques and critical appreciation. (Satisfies a humanities requirement of general education.)
- ART 104 THEORY OF DESIGN AND COLOR** (3, sp, LF). A studio course dealing with the elements and principles of design. Emphasis on two-dimensional composition, craftsmanship, expressive skills and color theory. Five hours per week, 1 lecture and 4 studio.
- ART 107 DRAWING I** (3, fa, LF). A studio course in drawing. A selection of methods and media will be introduced. Emphasis will be on developing skills in composition, perspective, value, volume, craftsmanship, and working from observation. Five hours per week.
- ART 175 SPECIAL TOPICS** (1-5). Topic to be listed in course schedule. May re-enroll as topic changes. May not be used as a general education requirement.
- ART 200 ART HISTORY I** (3, fa). Art History I is a survey course covering the creative and aesthetic efforts of various cultures from prehistoric times to the medieval period. Students will read, discuss and write about art, architecture and decorative arts of selected different world cultures. Course topics include art, artists and art styles of the Americas, Asia, Africa, Europe and Oceania. The course consists of a writing component in which students will write essays on selected art history topics. Lectures/discussions, demonstrations, class presentation, videos, collaboration, problem solving and group critiques are the means of learning.
This course satisfies a humanities requirement for general education.
- ART 201 ART HISTORY II** (3, sp) Art History II is a survey course covering the creative and aesthetic efforts of various cultures from the medieval period to present day. Students will read, discuss and write about art, architecture and decorative arts of selected different world cultures. Course topics include art, artists and art styles of the Americas, Asia, Africa, Europe and Oceania. The course consists of a writing component in which students will write essays on selected art history topics. Lectures/discussions, demonstrations, class presentation, videos, collaboration, problem solving and group critiques are the means of learning.
This course satisfies a humanities requirement for general education.

- ART 203** **ELEMENTARY ART EDUCATION** (1-3, sp) or **ELEMENTARY ART EDUCATION AND OBSERVATIONS** Art education history, philosophy, stages of development, teaching methods, classroom management, and organization of materials. In addition, the enrollment for 3 credit hours will include observations in a variety of actual classroom settings for 16 one-hour periods. Four or five hours per week. Co-requisite: Should be taken concurrently with EDU 204 and SE 221.
- ART 205.** **AFRICAN AMERICAN ART HISTORY** (3). A survey of African American art and artists from the colonial period to the present. The course will consider the social, political, cultural, as well as the artistic development of the artists.
- ART 206*** **FIBERS** (3, LF). An introductory course in fibers stressing various processes which include the following units: weaving, surface design, and papermaking. Five hours per week. Prerequisite: ART 104.
- ART 207*** **BASIC COMMERCIAL DESIGN** (3, fa, LF). Introduction to problems and practices in commercial art: layouts, basic lettering and advertising designs. Five hours per week. Prerequisite: ART 104.
- ART 208*** **WATER COLOR PAINTING** (3, LF). A beginning course in water color painting. Five hours per week. Prerequisites: ART 104 and 217.
- ART 209** **CERAMICS I** (3, fa, LF). Ceramics I is an introductory studio course designed to acquaint students with the history, terminology and processes involved in ceramic pottery. The course introduces the students to ceramic hand construction techniques with major emphasis on the coil method of construction and the basic use of the potter's wheel. Lectures, discussions, demonstrations, class presentations, videos, collaboration, problem-solving and critiques are the means of learning.
- ART 210*** **PRINTMAKING** (3, fa LF). An introduction to the history, materials and techniques of printmaking intended to develop technical and expressive abilities
- ART 217** **DRAWING II** (3, sp, LF). Advanced studio course in drawing. A continuation of Drawing I. Emphasis on developing individual areas of strength and interest. Five hours per week. Prerequisite: ART 107.
- ART 222** **PAINTING I** (3, fa, LF). An introductory studio course covering media and techniques of painting and safe studio practices. Emphasis on the use of oil media to create a variety of subjects such as landscapes, still-lives, self-portraits and the human figure. Prerequisites: ART 104 and 217.

- ART 301*** **FIGURE DRAWING** (3, LF). A course in drawing the human figure from life. Five hours per week. Prerequisite: ART 217.
- ART 303** **GRAPHIC DESIGN I** (3, sp). Intermediate course in page layout techniques and graphics-related software. Students in this course will assist in the layout and design of *Arts & Letters*, the student art and literature journal. Prerequisite: ART 207.
- ART 307*** **JEWELRY** (3, LF). An introductory course in design and execution of jewelry. Five hours per week. Prerequisite: ART 104.
- ART 309*** **CERAMICS II** (3, sp, LF). Ceramics II is a studio course designed to acquaint students with the history, terminology and processes involved in ceramic pottery. The course builds on students prior experiences in ceramic hand construction and use of the potter's wheel with emphasis on advanced wheel projects. Lectures, discussions, demonstrations, class presentations, videos, collaboration, problem-solving and critiques are the means of learning. Prerequisite: ART 209.
- ART 310** **PRINTMAKING II** (3, sp LF) Advanced exploration into materials and techniques of stone lithography and multi-viscosity intaglio processes. Prerequisite: ART 210
- ART 323*** **PAINTING II** (3, sp, LF). This course is a continuation of the study of materials and techniques of oil painting intended to develop technical and expressive abilities. Development of composition and observational skills will be stressed, as well as an emphasis on painting as communication. Prerequisite: ART 222.
- ART 401** **GRAPHIC DESIGN III** (3, fa, odd). An advanced design course emphasizing more advanced development of graphics-related products including page layout, animation and packaging design. Prerequisite: ART 207 and ART 303.
- ART 421*** **FIGURE PAINTING** (3, sp, even LF). An advanced course in painting from the live model. Five hours per week. Prerequisites: ART 301 and 323.
- ART 422*** **SCULPTURE** (3, fa, odd, LF). A basic course in sculpture. Five hours per week. Prerequisites: ART 104 and 217.
- ART 423*** **ADVANCED TECHNICAL PROBLEMS** (3, fa, sp, LF). A culminating course in art based on experiences and skills acquired during the freshman, sophomore, and junior years. A senior exhibit is required as a part of this course. Prerequisite: All required art courses in the art sequence prior to the senior year.

ART 475 **SPECIAL TOPICS IN ART AND ART EDUCATION** (1-5). Selected topics in art and art education dealing with special subjects of professional interest (studio skills, current practices, developmental processes, commercial uses, etc.).

ART 498* **ART INTERNSHIP** (3, fa, even). This course is designed to offer art majors the opportunity to gain valuable work experience as they learn. Students are afforded the opportunity to put into practice the knowledge obtained in the classroom.

*Repeatable Courses

ENGLISH

Professors:

Frazier, Jane
Heermance, Noel
Salmons, Bryan

Associate Professor:

Burrell, Eli

Assistant Professors:

Dean, Daren
McGraw, Matthews
Ledgerwood-Turner, Kathleen

Instructors:

Adolph, Jessie
Straatman, Nick
Wilson, Michelle

Mission

The English area offers programs based on the belief that language shapes our world, enabling us to think and express our ideas, allowing us to collaborate with others, and preparing us to meet the challenges of the 21st century. The faculty endeavor to impart this philosophy to our majors and to provide them with the background knowledge and the skills necessary for them to embark on careers or enter graduate school. Equally important, we seek to foster in our majors an understanding and appreciation of the disciplines in which they complete degrees.

Degrees Offered

Bachelor of Arts with a major in English, emphasis in literature
Bachelor of Arts with a major in English, emphasis in creative writing
Bachelor of Science in Education with a major in English

Objectives

All students completing the English degree programs will be able to:

1. analyze, critique, and interpret canonical and other works of literature
2. write a variety of essays in standard English, without patterns of errors, on topics in language and literature

All students completing the B.A. in English with an emphasis in literature will be able to:

1. demonstrate a broad knowledge of major works of literature in English and an understanding of their contexts
2. demonstrate an understanding of the history, structure, and linguistic variation of the English language

All students completing the B.A. in English with an emphasis in creative writing will be able to:

1. identify and use the fundamental techniques of poetry, fiction, and drama
2. compose poetry, or fiction, or drama and prepare those

one elective literature course.

Course Descriptions

Listed courses may not be taught every semester or every year. The department head and English faculty advisors have information about projected course offerings for a semester/year.

ENG 101 COMPOSITION AND RHETORIC I (4, fa, sp, su). A writing course that focuses on expository, critical and analytical modes of essay writing. All students who have not qualified for the Honors Program will be placed in ENG 101. This course, completed with a minimum grade of "C" is the prerequisite to any higher-numbered English course except ENG 151H-152H.

ENG 102 COMPOSITION AND RHETORIC II (4,fa, sp, su). A writing course that focuses on argumentative and persuasive writing, with a limited introduction to research and the fundamentals of literary analysis. Prerequisite: grade of "C" or higher in ENG 101. This course, completed with a minimum grade of "C," is a prerequisite to any higher-numbered English course except ENG 151H- 152H.

ENG 151H HONORS COMPOSITION AND RHETORIC I (3, fa). A writing course

utilizing a variety of texts and non-traditional methods to reach the gifted learner. Expository writing is stressed. Prerequisite: English ACT sub-score of 24 or above or permission of instructor.

ENG 152H HONORS COMPOSITION AND RHETORIC II (3, sp). A continuation of ENG 151H, stressing analytical and research assignments. Prerequisite: grade of "C" or higher in ENG 101 or ENG 151H and permission of instructor.

ENG 101-102 or ENG 151H-152H, with minimum grade of "C," are prerequisites for all other English courses.

ENG 200 INTRODUCTION TO LITERATURE (3, fa). A study of the major literary genres (fiction, poetry, drama) with the aim of developing in the student the ability to read imaginative writing critically with understanding and appreciation.

ENG 207 SURVEY AMERICAN LITERATURE THROUGH 1865 (3). The development of American literature through the Civil War. Features the various American subcultures, including those of African Americans and women, that have produced major forms and works, and focuses upon a greater aesthetic understanding of the salient literature of the period.

- ENG 208** ***SURVEY OF AMERICAN LITERATURE: 1865-PRESENT (3).*** *The development of American literature from the Civil War to the present. With an emphasis on major works, including those of African Americans and women, this course traces the maturation of American literature through the Modernist period and beyond.*
- ENG 210** **SURVEY OF ENGLISH LITERATURE I. (3).** The development of English literature through the sixteenth century. Emphasis on major forms and works.
- ENG 211** **SURVEY OF ENGLISH LITERATURE II. (3).** A study of English literature from the Age of Reason through Modernism with emphasis on major writers and literary trends and types. Reading of primary texts will be stressed.
- ENG 216** **AFRICAN AMERICAN LITERATURE (3, sp, odd).** Readings in the literary interpretation of the African American experience by African American authors, viewed within a comprehensive, historical context. Prerequisite: ENG 207 or 208.
- ENG 271** **INTRODUCTION TO CREATIVE WRITING (3, fa).** An introductory course in writing poetry and short stories focusing on students' own writing. Students learn to give and receive constructive criticism on creative work.
- ENG 301H** **HONORS INTRODUCTION TO LITERATURE (3, sp).** Intensive study of major literary genres (fiction, poetry, drama) with the aim of expanding student appreciation and critical reading/writing skills. May focus on a topic or theme.
- ENG 316** **WRITING AND RESEARCH (3,fa, even).** Students will develop their writing and research skills through practice with writing analytical essays and research papers. Guided practice in research methods, source evaluation, critical analysis, and documentation style. This course is designated writing intensive.
- ENG 320** **MASTERPIECES OF WORLD LITERATURE (3, sp, odd).** Focuses on reading and appreciation of various ethnic, regional, and national literatures (not including British and American literature). Students will examine different genres, periods, and literatures of diverse geographies.
- ENG 325** **GRAMMAR (3, fa)** An intensive study of the conventions governing grammar in English.

- ENG 335 HISTORY OF THE ENGLISH LANGUAGE** (3, sp, odd). A study of the development of the English language from Anglo Saxon to the present.
- ENG 340 WOMEN AND LITERATURE** (3, sp, even). A study of representative stories, novels, poems, essays and memoirs by nineteenth and twentieth century American, European, African, and Asian women writers.
- ENG 370H HONORS SPECIAL TOPICS IN LITERATURE** (3). Concentrated study of a specific topic to be listed in course schedule. Provided that different material is covered, course may be repeated for a maximum of six credit hours.
- ENG 375 FICTION WRITING WORKSHOP** (3, sp). Short fiction writing. Focus is on students' writing. Students learn to give and receive constructive criticism on creative work. Students may re-enroll for maximum of nine hours credit. Prerequisite: ENG 101-102 or 151H-152H and ENG 271 with a minimum grade of "C."
- ENG 376 POETRY WRITING WORKSHOP** (3, fa). Poetry writing. Focus is on students' writing. Students learn to give and receive constructive criticism on creative work. Students may re-enroll for maximum of nine hours credit. Prerequisites: ENG 101-102 or 151H-152H, ENG 200 and ENG 271 with a minimum grade of "C."
- ENG 401 SHAKESPEARE** (3, sp, odd). A study of the sonnets and several plays.
Prerequisite: ENG 200.
- ENG 404 THE ROMANTIC MOVEMENT IN ENGLISH POETRY** (3, fa, odd). Intensive study of the poetry and critical writings of key Romantics. This course is designated writing intensive. Prerequisite: ENG 200.
- ENG 405 VICTORIAN LITERATURE** (3, sp, even). Intensive reading of selected prose, drama and poetry of the period. Prerequisite: ENG 200.
- ENG 409 THE NOVEL** (3, sp, odd). Examines the history, structure and criticism of the novel as a literary genre through a thematic, historic, or regional/ethnic survey of selected works. May also focus on the intensive study of a particular author or a particular literary/historical movement.

- ENG 411 MODERN POETRY** (3, fa even). Close reading of significant works of British and American poetry, chiefly from the twentieth century. Prerequisite: ENG 200 or 210 or 211.
- ENG 413 MODERN DRAMA.** (3, fa, odd). Close reading of significant works of British, American and continental drama, from the mid-nineteenth century to the present.
- ENG 417 CLASSICAL GREEK AND ROMAN LITERATURE** (3, sp even). Examines the literature of Ancient Greece and Rome, introducing students to the works of several Greek and Roman playwrights, poets and essayists. The course will require students to study ways in which these writers have influenced and continue to influence the western canon.
- ENG 419 LITERARY CRITICISM** (3, fa even). Critical theories and approaches that have influenced the study of western literature. Prerequisites: ENG 200 and ENG 207 or 208 or 210 or 211.
- ENG 470 SPECIAL TOPICS IN LANGUAGE AND LITERATURE.** (1-3). *Topic* to be listed in course schedule. Concentrated study of a specific author, work, or topic. Prerequisite: three upper-division hours in English appropriate to the topic. Provided that different material is covered, course may be repeated for maximum of nine hours credit.
- ENG 470H HONORS SPECIAL TOPICS IN LANGUAGE AND LITERATURE**
(3). Concentrated study of a specific author, work, or topic. Topic to be listed in course schedule. Prerequisite: 3 hours upper division credit in English appropriate to topic.
- ENG 471H HONORS SPECIAL TOPICS IN CREATIVE WRITING** (1-3). *Topic* to be listed in course schedule. Concentrated study of particular sub-genre of writing. Focus on students' writing. Students will receive constructive criticism on a major writing project. Prerequisite: ENG 271 and instructor's permission. Provided that different material is covered, course may be repeated for maximum of six hours credit. Prerequisite: 3 hours upper division credit in English appropriate to topic.
- ENG 473H HONORS SPECIAL TOPICS IN AFRICAN AMERICAN LITERATURE** (1-3). Topic to be listed in course schedule. Intensive study of a period, a genre, or the works of a single author within the African American experience. Prerequisite: 3 hours upper division credit in English appropriate to topic. Provided that different material is covered, course may be repeated for maximum of six hours credit.

- ENG 474 INTERNSHIP IN EDITING AND PUBLISHING** (3, sp). Provides students with an opportunity to design, edit, and produce an art and literature magazine. Course may be repeated for maximum of six hours credit. Prerequisite: ENG 200 and a 300-level creative writing workshop.
- ENG 475 ADVANCED FICTION WORKSHOP** (3, sp, odd). Advanced fiction writing. Focus is on students' writing. Writing and workshop experience assumed. Prerequisite: ENG 375. Course may be repeated for maximum of six hours credit.
- ENG 476 ADVANCED POETRY WORKSHOP** (3, fa, even). Advanced poetry writing. Focus is on students' writing. Writing and workshop experience assumed. Prerequisite: ENG 376. Course may be repeated for maximum of six hours credit.
- ENG 482H Honors Thesis**
- ENG 490 PROBLEMS AND PRACTICE IN THE TEACHING OF GRAMMAR AND WRITING** (3, sp, odd). Approaches and applications in the teaching of grammar and writing. Students will review grammar and writing concepts, design grammar tests and writing assignments, create rubrics, and evaluate writing. Meets Missouri secondary certification requirements. This course is designated writing intensive. Prerequisite: Successful completion of ENG 101/102 and three upper-division English classes.
- ENG 498 INTERNSHIP** (3). Provides students with an opportunity to apply their English skills in a work setting and to begin formulating a career plan. Department head consent required.

Creative Writing Emphasis – Start Fall of Odd Year

Freshman First Semester (odd year)		Hrs	Freshman Second Semester		Hrs
GE 101	University Seminar	1		Foreign Language	3
ENG 101	Comp. and Rhet. I	4	ENG 102	Comp. and Rhet. II	3
MAT 115	Quantitative Reasoning	3-5		Core 42 Natural Sciences selection with a laboratory	3+1
	Core 42 Social & Behavioral Science selection	3		Core 42 Social & Behavioral Science selection 2	3
	Foreign Language	3		elective courses	3
TOTAL:		14-16	TOTAL:		16

Sophomore Third Semester		Hrs	Sophomore Fourth Semester		Hrs
SPT 206	Fundamental of Speech	3	ENG 208 (OR ENG 207)	Survey of Amer Lit: 1865-present	3
ENG 200	Introduction to Literature (meets Core 42 HFA selection 2)	3	ENG 211 (OR ENG 210)	Survey of English Literature II	3
ENG 271	Introduction to Creative Writing	3	ENG 375	Fiction Writing Workshop	3
	elective course	3		Foreign Language	3
	Foreign Language	3		International Cultural Diversity general education selection	3
TOTAL:		15	TOTAL:		15

Junior Fifth Semester		Hrs	Junior Sixth Semester		Hrs
	Core 42 Civics selection	3	ENG 340 (OR 216)	Women and Literature	3
ENG 376	Poetry Writing Workshop	3	ENG 405 (OR ENG 409)	Victorian Literature	3
	elective course	3		Core 42 Natural Sciences selection without a laboratory	3
	elective course	3		any course from the Core 42 list not already on this sample program	3
	elective course	3		elective course	3
TOTAL:		15	TOTAL:		15

Senior Seventh Semester		Hrs	Senior Eighth Semester		Hrs
ENG 411 (OR ENG 404)	Modern Poetry	3	ENG 320 (OR ENG 417)	Masterpieces of World Literature	3
ENG 316	Writing and Research	3	ENG 401	Shakespeare	3
ENG 476 (OR ENG 475)	Advanced Poetry Workshop	3	ENG 474	Internship in Editing and Publishing	3
	elective course at 300 level or higher	3		elective course at 300 level or higher	3
	elective course at 300 level or higher	3		elective course at 300 level or higher	3
TOTAL:		15	TOTAL:		15

FOREIGN LANGUAGES

Course Descriptions

Listed courses may not be taught every semester or every year. The department head and departmental advisors have information about projected course offerings for a semester/year. All courses are conducted in Spanish, unless otherwise noted.

- SPA 105** **SPANISH I** (3, fa, sp). Students will develop skills in the five areas of second language acquisition: speaking, listening, writing, reading, and cultural awareness. Prerequisite: Enrolled in or completed English 101 or equivalent.
- SPA 120** **ELEMENTARY SPANISH FOR TRAVELERS** (3, fa, sp). This introductory course is designed to provide travelers with essential speaking skills in Spanish. Upon completing this course, participants will be able to meet their basic needs, interact with native speakers, and become acquainted with the Spanish way of life. No previous knowledge of Spanish is required.
- SPA 200** **SPECIAL TOPICS** (1-3). Organized study of selected topics. Subjects of study will vary from semester to semester. Students may re-enroll as topic changes for up to six credit hours. Prerequisite: sophomore standing or permission of instructor.
- SPA 205** **SPANISH II** (3, sp). Students will use previously acquired skills to achieve basic communicative exchanges. Upon completion of this course, students will be able to communicate successfully in interactive, task-orientated and social situations. Prerequisite: a grade of "C" or better in Spanish 105 or a satisfactory score on the placement test.
- SPA 230** **INTRODUCTION TO SPANISH COMPOSITION** (3, sp even). This course integrates the semantic and syntactic knowledge acquired in SPA 105 and 205 to provide students with an introduction to thematic writing in the target language. Prerequisite: a grade of "C" or better in SPA 205 or placement through examination.
- SPA 300** **SPECIAL TOPICS** (1-3). Organized study of selected topics. Subjects of study will vary from semester to semester. Students may re-enroll as topic changes for up to six credit hours. Prerequisite: junior standing or permission of instructor.
- SPA 303** **SPANISH CONVERSATION AND COMPOSITION I** (3, fa, even). Students will develop fluency in spoken and written expression and build vocabulary through composition and discussion about everyday life in the Spanish- speaking world, particularly in professional settings. Prerequisite: a grade of "C" or better in SPA 230.

- SPA 304** **SPANISH CONVERSATION AND COMPOSITION II** (3, sp, odd). Students will continue to acquire flexibility in spoken and written expression. Upon completion of this course, students will be able to initiate and sustain general conversation on various topics in professional and other settings and to use written language effectively for professional and personal exchanges. Prerequisite: a grade of “C” or better in SPA 303.
- SPA 305** **TOTAL IMMERSION SPANISH CONVERSATION AND COMPOSITION** (3). While studying abroad, students will develop fluency in spoken and written expression and build vocabulary through composition and discussion in everyday life. Prerequisites: a grade of “C” or better in SPA 205.
- SPA 312** **SPANISH FOR THE PROFESSIONS** (3). A composition and conversation course designed to provide students with the skills required to function professionally in international settings. Topics will vary to include diverse fields such as business, education, nursing, criminal justice, etc. Students may re-enroll as topic changes for up to six credit hours. Prerequisite: SPA 303 or 304.
- SPA 321** **LATIN AMERICAN CIVILIZATION** (3). Students will gain an appreciation of the Latin American civilization through the study of history, literature, art, and music. No knowledge of Spanish is required. This course is taught in English. This course is designated writing intensive.
- SPA 322** **SPANISH CIVILIZATION** (3). Students will develop an appreciation of the Spanish civilization from the Moorish invasions to the modern era through the study of history, literature, art, music, and cinema. No knowledge of Spanish is required. This course is taught in English. This course is designated writing intensive.
- SPA 323** **SPANISH CIVILIZATION ABROAD** (3). While traveling in Spain or Latin America, students will reach their own understanding of the Spanish culture and gain an appreciation of the Hispanic civilization. This course is required for all students enrolled in the Study Abroad Program. This course is taught in English. Prerequisites: SPA 205.
- SPA 330** **SPANISH LINGUISTICS** (3). An overview of the history and structure of the Spanish language combined with an opportunity for advanced writing focusing on the morphology and syntax of standard modern Spanish. Prerequisite: SPA 304 or 305.

- SPA 331 HISPANIC LITERATURE SURVEY I (3).** A study of selected fiction and non-fiction prose of Spain and Spanish America. Prerequisite: SPA 304 or 305.
- SPA 332 HISPANIC LITERATURE SURVEY II (3).** A study of selected plays and poetry of Spain and Spanish America. Prerequisite: SPA 304 or 305.
- SPA 400 SPECIAL TOPICS (1-3).** Organized study of selected topics. Subjects of study will vary from semester to semester. Students may re-enroll as topic changes for up to six credit hours. Prerequisite: senior standing or permission of instructor.
- SPA 412 ADVANCED PROFESSIONAL SPANISH (3).** This course emphasizes written and oral communications in professional settings as well as translation and creation of work-related documents such as memoranda, business letters and resumes. Prerequisite: senior standing or permission of instructor.

JOURNALISM

Assistant Professors:

Shelby, John
Sites, Will

Mission

The Journalism program has dual goals in all of its degree programs. We aim to provide a liberal arts background and a set of field-specific skills for our students. We defer to the General Education program to provide that liberal arts focus. We, then, provide specific course work and laboratory experiences within the majors to provide the specific training.

Degrees Offered

Bachelor of Science with a major in Journalism

Objectives

All students completing the B.S. in Journalism will be able to demonstrate

1. above average newswriting skills and working knowledge of the Associated Press Style Manual
2. above average speaking skills, showing proper voice and diction
3. employability in the field through excellence in required Internship and audition tapes and portfolio of clips (samples of written news work)

Assessment Program

Assessment measures allow students and faculty to determine whether students have met the objectives of the program. The Journalism faculty has spread its assessment measures throughout the degree programs so that students can receive periodic reports of their progress and follow-up advice. Audition tapes and a portfolio are required before graduation, but these should be works in progress, by each student, throughout an academic career. Program assessment will also take place, examining audio and video tapes produced in classes and writing samples from classes and student publications, as well as exit examination results from each graduating senior.

Required Courses

A minimum grade of "C" is required in English 101 and 102 for all Journalism courses numbered 200 and above.

Major: B.S. in Journalism

Core Requirements for both the Print/Online Newswriting and Editing Track: A minimum grade of "C" in 45 hours of Journalism including the following: JOU 125, 135, 200, 203, 225, 325/326(print only), 370, 373, 407, 418, 425/426(print only), 498 & 499.

Broadcast Track requires, with a minimum grade of “C” or better, completion of JOU 125, 135, 200, 203, 225, 300, 335, 336, 341, 373, 418, 435, 436, 498 & 499.

Included with the requirements listed for one of the tracks for the B.S. is a minor or concentration of courses approved by the advisor totaling at least 12 credit hours in lieu of foreign language. Except for English 101 and 102, this concentration may include courses used to satisfy the general education requirements. Word processing competency is also required.

Minor

A minimum grade of “C” is required in English 101 and 102 for all Journalism courses numbered 200 and above.

Course Descriptions

Listed courses may not be taught every semester or every year. The department head and Journalism advisors have information about projected course offerings for a semester/year.

- JOU 125 VISUAL COMMUNICATION** (3, fa). Introduction to visual communication principles and application, emphasizing photojournalism. Students will create communication material for publication consideration in the Lincoln University Clarion. Digital camera and mobile storage required.
- JOU 135 BROADCAST NEWS** (3, sp). News function of the electronic media. Ethical principles and practical applications of working as a broadcast journalist in a small or medium market. Hands-on training in audio or video.
- JOU 200 INTRODUCTION TO MASS COMMUNICATION** (3, fa). A survey of the print and electronic media. Frequent written assignments, field trips, book reports. Prerequisites: ENG 101 and 102.
- JOU 203 HISTORY OF JOURNALISM** (3, sp). The history of American journalism from the colonial era to the present time. Major emphasis will be placed on the early American newspapers and their editors. The advent of American broadcasting will also be considered.
- JOU 225 NEWSWRITING** (3, fa). Introduction to writing for journalism and AP style. The emphasis is on reporting the news and writing it in a professional manner. Introduces ethical and legal issues facing journalism. Prerequisites: ENG 101/102 or 151H/152H with grade “C” or better. JOU 125 with grade “C” or better.

- JOU 300 BROADCAST REGULATIONS AND RESPONSIBILITIES (3).** *Laws governing broadcast media and related problems. Rules and regulations set by the Federal Communications Commission and interactions between regulating agencies and media. Prerequisite: JOU 299.*
- JOU 325/26 Reporter I–II (3).** Production of a laboratory newspaper; on line format. Reporting, writing, editing, page design and layout, photography, and distribution. How to deal with news sources, editors and fellow staff members. Accuracy and ethical behavior. Prerequisites: JOU 125 and 225, both with a “C” or better.
- JOU 335 DIGITAL NEWSROOM I (3, sp).** Introduction to using file-based digital systems to gather, edit and broadcast the news in practical situations to interact with sources, news directors, producers and talent. Regular newscasts will be produced. Prerequisites: JOU 135 & JOU 225, both with a “C” or better.
- JOU 336 DIGITAL NEWSROOM II (3, sp).** Advanced use of file-based digital systems to gather, edit and broadcast the news in practical situations to interact with sources, news directors, producers and talent. Regular newscasts will be produced. Prerequisites: JOU 135 & JOU 225 & 335 with a “C” or better.
- JOU 341 BROADCAST NEWS WRITING AND EDITING (3, sp).** Preparation of newscasts emphasizing live or original broadcasts and preparation for television. Word processing skills required.
- JOU 370 PUBLIC RELATIONS (3, fa, even).** Techniques of communications between institutions and their publics. Field surveys and promotion problems.
- JOU 373 INVESTIGATIVE JOURNALISM (3, fa, odd).** Gathering of information by journalists and other mass communicators via interviewing and using libraries and other public records to analyze current social problems, contemporary controversies, and public-interest stories. Prerequisites: JOU 135 & JOU 225, both with a “C” or better.
- JOU 396 DIRECTED STUDY (1-3).** May be repeated to a maximum of 6 credit hours. Individual research project in the area of student's interest. A complete written report of the findings is required. Written consent of instructor required. Hours arranged.
- JOU 407 PUBLIC AFFAIRS (3, fa, even).** Learning to research, report, and write basic, in- depth interpretive and analytical stories focusing on governmental entities for print, broadcast, and online media. Requires news coverage outside of class. Prerequisites: JOU 135 & JOU 225, both with a “C” or better.

- JOU 418** **MASS MEDIA LAW** (3, sp, even). Court decisions and legislation affecting publications and broadcasts, with emphasis on libel, privacy, copyright, privilege, contempt, and administrative controls. Pre-requisites JOU 135 & JOU 225, both with a “C” or better.
- JOU 425** **NEWS EDITOR I** (3, fa, su). Service as editor of student publication. Prerequisite: JOU 325, 326, both with a “C” or better, and permission of instructor.
- JOU 426** **NEWS EDITOR II** (3, sp, su) Service as editor of student publication. Prerequisite: JOU 325, 326, and 426, each with a grade of “C” or better, and permission of instructor.
- JOU 435** **NEWS PRODUCER I** (3, sp). Introduction to student news production, including stacking news, editing scripts, loading teleprompter, character generator, file servers, and importing graphics and stills. Regular newscasts will be produced in these classes. Prerequisite: JOU 335, 336, and permission of instructor.
- JOU 436** **NEWS PRODUCER II** (3, sp). Advanced student news production, including stacking news, editing scripts, loading teleprompter, character generator, file servers, and importing graphics and stills. Regular newscasts will be produced in these classes. Prerequisite: JOU 335, 336, 496, and permission of instructor.
- JOU 475** **TOPICS IN MASS COMMUNICATIONS** (1-3). Students undertake a project designed to develop competence in a selected area of practical and theoretical problems in the field. Senior status required.
- JOU 498** **MEDIA INTERNSHIP** (3, fa, sp, su). This course is designed to give the student an opportunity to function in a professional capacity. Each student will be required to complete a minimum of 150 hours at a designated facility.
- JOU 499** **JOURNALISM CAPSTONE** (3, sp). This course emphasizes employment search protocol. Students will explore skills and materials that are industry- specific for job searching. Web, print, and electronic media will be included. Prerequisite: Senior standing as a Journalism major or written permission of instructor.

MUSIC

Associate Professor:

Johnson, Michael

Assistant Professor:

Gamblin-Green, Michelle

Mission

The music program strives to enhance the lives of Lincoln University's student population and the general population of Jefferson City by presenting student recitals and programs by band and choral ensembles in a variety of musical and cultural settings. These events are free and open to the public.

Course Descriptions

- MUS 200 THE WORLD OF MUSIC** (3, fa, sp, su). The study of music from around the world, including European classical music of selected eras. Selected readings and listening to live and recorded music are required. Designed for non-music majors. (Satisfies a humanities requirement of general education.)
- MUS 203 FUNDAMENTALS OF MUSIC** (1). A course for elementary education students presenting the rudiments of music, elementary ear training, tonal and rhythmic problems and terminology.
- MUS 205 MUSIC OF BLACK AMERICANS** (3, fa, sp, su). An historical and analytical survey (performance practices and compositional trends) of jazz, ragtime, sacred music (spirituals and gospel), secular folk songs, rhythm and blues, etc., emanating from the Black experience. (Satisfies a humanities requirement of general education.)

Ensembles

Opportunities for the development of performance skills are provided through participation in musical organizations.

- MUS 299B/
299C/
299 OR BAND, CHOIR, ORCHESTRA.** (1 each). Required major ensemble for freshman and sophomore instrumental, keyboard or vocal music majors (four consecutive semesters). May also be taken by non-majors.
- MUS 299 VOCAL ENSEMBLE** (1, fa, sp). Performance experience in jazz, popular, classical and gospel musical styles. Off-campus touring required. Three class meetings per week. Prerequisite: Permission of the department head and the ensemble director. May re-enroll for a maximum of 4 credits.

- MUS 299J JAZZ ENSEMBLE** (1 each). Performance experience in opera or jazz. May be taken by freshman and sophomore students with strong musical skills. May re-enroll for a maximum of 4 credits.
- MUS 499B/ 499C/ 499OR BAND, CHOIR, ORCHESTRA** (1-2 each). Required experience for junior and senior instrumental, keyboard or vocal music majors (three consecutive semesters). May also be taken by non-majors. May re-enroll for a maximum of 8 credits. Permission of the department head and ensemble director required to enroll for 2 credits.
- MUS 499E JAZZ ENSEMBLE** (1-2 each). Performance experience in opera or jazz. May be taken by junior and senior students with strong musical skills. May re-enroll for a maximum of 8 credits.
- MUS 499 VOCAL ENSEMBLE** (1-2). Performance experience in jazz, popular, classical and gospel musical styles. Off-campus touring required. Three class meetings per week. Prerequisite: Permission of the department head and the ensemble director. May re-enroll for a maximum of 8 credits.

PHILOSOPHY

Professors:

Ballard, Bruce
Rohrer, Laurence

Mission:

The mission of the Department of History, Political Science and Philosophy is to attract, educate, challenge and inspire a diverse population of intellectually curious students within the context of an open enrollment institution. The department provides student-centered learning, integrating teaching, research, and service. The department offers relevant, high quality undergraduate and select graduate programs that prepare students for careers and lifelong learning.

Objectives

Students successfully completing the minor program in Philosophy will have acquired the following understandings and skills:

Competence as critical thinkers, readers, writers, and speakers; Familiarity with the traditional areas of philosophy (logic, ethics, epistemology and metaphysics); Acquaintance with the historical development of philosophy from the ancient world to the present; The use of philosophical methods and concepts within applied fields, such as political theory, health care ethics, philosophy of education, etc.; A sensitivity to philosophical assumptions that underlie human experience, history and culture.

Required Courses

Minor: Eighteen hours in philosophy, with a minimum grade of "C", including at least 6 hours in upper division courses.

Course Descriptions

Listed courses may not be taught every semester or every year. The department head and philosophy advisors have information about projected course offerings for a semester/year.

Group I: General Education

- | | |
|----------------|---|
| PHI 101 | PRINCIPLES OF REASONING (3, fa, sp). Analysis of argument, detection of fallacies, meaning and definition, formal deduction and induction, with emphasis on practical applications. |
| PHI 102 | INTRODUCTION TO PHILOSOPHY (3, sp, su). Acquaints the student with some problems and methods of philosophic inquiry. |
| PHI 201 | MAJOR RELIGIONS OF THE WORLD (3, sp, odd). Compares and contrasts concepts of ultimate reality, the world of sense, human nature and religious morality of major Eastern and Western religions, including Hinduism, Buddhism, Islam, Christianity and modern secularism. |
| PHI 203 | ETHICS (3, sp). Nature of moral problems and some alternative |

methods for their solution. Emphasis will be placed on applications to personal and social issues.

- PHI 203H HONORS ETHICS** (3, fa, odd). An exploration of Western and non-Western approaches to ethics for Lincoln University honors students. Special emphasis is given to applied ethics and the perspectives of different cultures and ethnicities on important moral issues of our time.
- PHI 204 POLITICAL PHILOSOPHY** (3, fa, even). Philosophical foundations of democracy and major criticisms. Applications to current issues will be stressed.

Group II: Upper Division Service

- PHI 303 HEALTH CARE ETHICS** (3, fa, sp). Examination of value conflicts which arise in modern medicine in such areas as reproduction, death and dying, the patient-professional relationship, human experimentation, and health care economics. Prerequisite: Sophomore standing or permission of instructor. This course is designated writing intensive.
- PHI 304 BUSINESS ETHICS AND SOCIETY** (3, fa, sp). This course considers classical theories of ethics and economic justice and their application to such issues as confidentiality, corporate truth telling, corporate social responsibility, environmental preservation, and global economic relationships. Prerequisite: Concurrent enrollment or prior completion of ENG 102 or 152H and junior or senior standing or permission of the instructor.
- PHI 306 MOVEMENTS IN PHILOSOPHY** (3, fa, even). A concentrated study of specific philosophers or a specific development in the history of philosophy. Provided that different material is covered, the course may be taken for credit twice. Prerequisite: Sophomore standing or permission of instructor.
- PHI 307 PROBLEMS IN PHILOSOPHY** (3, sp, odd). A concentrated study of a specific philosophical problem or theory. Provided that different material is covered, the course may be taken for credit twice. Prerequisite: Sophomore standing or permission of instructor.
- PHI 308 PHILOSOPHY OF SCIENCE** (3, fa, odd). Study of the historical development and logical structure of scientific theories. Relations between science and values will be considered. Required of students in science education. Prerequisite: Fulfillment of Area 5: Natural Science Studies, General Education requirements.
- PHI 309 PHILOSOPHY OF HUMAN NATURE** (3, sp, even). This course examines some of the most influential ancient and contemporary theories addressing such questions as “do humans have a ‘nature’ that can be discovered and defined; do humans have free will; what are the causes of the ills of humanity; do these problems have a cure?”
- PHI 310 CHRISTIANITY AND PHILOSOPHY** (3, fa, even). This course considers philosophical argument and criticism concerning such

Christianity-specific matters as the divinity of Christ, the Resurrection, Christian Ethics and the Natural Law. It also covers traditional topics in the Philosophy of Religion such as the existence and nature of God, the problem of evil and suffering, and the general relation between reason and religious belief.

PHI 311 **MASS MEDIA ETHICS** (3, sp, odd). An overview of main approaches to moral theory and application to journalistic issues, including privacy and the concept of objectivity in news reporting and public relations.

Group III: Advanced Philosophy

Prerequisite: Six hours in Philosophy or a cognate area.

PHI 450 **POLITICAL THOUGHT** (3, fa, even). Same as PSC 450. Selected representative theorists in the development of political philosophy.
Prerequisite: Three (3) hours of 200 level Political Science or History.

SPEECH AND THEATRE

Assistant Professor:

Brewer, Mick

Mission

The curriculum in Speech and Theatre embraces general education, pre-professional and professional objectives.

It endeavors to prepare students to be intelligent, responsible, and effective communicators in a free society, to develop proficiency in audio-oral skills, and to enhance the cultural experience of the University and community through the presentation of creative activities.

Objectives

Upon completion of requirements for the minor, the student will be prepared for graduate and professional study in the field of speech or theatre, in business, government, and the professions.

Required Courses

Minor: Speech and Theatre: A minimum of 18 hours including SPT 209, 215, 349 and 358; JOU 399; and 2 hours of Theatre Practice. (A minimum grade of “C” is required in all courses for the minor.)

Course Descriptions

Listed courses may not be taught every semester or every year. The department head and speech and theatre advisors have information about projected course offerings for a semester/year.

SPT 150 **VOICE AND DICTION.** (3, sp, odd). Development of distinct enunciation, correct articulation and pronunciation, and an optimum pitch level. Special projects included for theatre students. No credit allowed toward the minor.

SPT 175 **SPECIAL READINGS.** (1-5). Topic to be listed in course catalog. May re-enroll as topic changes. May not be used as a general education requirement.

**SPT 181/
182/281/
282/381/
382/481/ 482** **THEATRE PRACTICE.** (1) *Students will participate in area productions as actors or technicians*

SPT 206 **FUNDAMENTALS OF SPEECH.** (3, fa, sp). A study of interpersonal and public communication theory and practice. This diverse course is designed to develop knowledge and skills in the processes effective to all communication in diverse contexts. Prerequisite: ENG 101 or 151H.

- SPT 207** **FUNDAMENTALS OF INTERPERSONAL COMMUNICATIONS.** (3, fa, odd). A study of communication theory and its application to interpersonal and social relations. Development of knowledge, insights, and skills in the processes of group interaction. Emphasis will be given to identifying and developing strengths of communication and ease in face-to-face interactions. A lecture, reading, and discussion course. Prerequisite: ENG 101 or 151H.
- SPT 209** **INTRODUCTION TO THE THEATRE.** (3, fa, sp). A survey course in the history, literature, criticism, and arts of the theatre.
- SPT 215** **ELEMENTARY STAGECRAFT.** (3, fa, even). Basic drafting techniques used in theatre and the principles and practices of scenery construction and rigging, property construction, and the operation of stage equipment. Students will staff construction and running crews of productions.
- SPT 349** **APPLIED PHONETICS.** (3). Designed to develop proficiency in phonetic transcription and the acquisition of good American diction through the use of the phonetic alphabet, and the science of speech sound. Prerequisite: SPT 206.
- SPT 358** **BUSINESS AND PROFESSIONAL SPEAKING.** (3, sp, odd). The study and practice of the techniques utilized by leaders in business, labor, education, and the professions. Prerequisite: SPT 206 or permission of the instructor.
- SPT 379** **THEORY AND TECHNIQUES OF ACTING.** (3). Principles in the creation of character. Practical work in the building of various types of roles through classroom exercises. Prerequisite: SPT 209.
- SPT 450** **SPECIAL TOPICS IN THE THEATRE.** (1-3). Topic to be listed in the course schedule. May enroll again as topic changes.

BIOLOGY

Professors:

Busalacki, Aimee

Lee, Keesoo

Scott, Michael

Assistant Professors:

Morin, Cynthia

Tipton, Alice

Mission

The mission of the Biology program is to provide educational opportunities for students from various backgrounds to be successful in a complex, technological and diverse society. The program is dedicated to teaching the principles and concepts of life sciences and demonstrating how it applies to our natural and social environment; provides majors with current and relevant programs that prepare them for employment or professional advancement and conducts laboratory and research experiences for undergraduates that reinforce learning and applications of empirical methods of science. The program accomplishes its goals through small classes and individual attention in a nurturing educational environment.

Degrees Offered

Bachelor of Science with a major in Biology

Bachelor of Science in Education with a major in Biology

Objectives

Students completing the Biology degree program will

1. obtain an understanding of the major concepts of biological systems and related areas
2. gain the ability to express themselves effectively in both written and oral forms
3. continue their biology education beyond the bachelor's degree or find employment in a field utilizing biology

Assessment Program

Assessment of biological knowledge and skills will take place in the junior and senior years of the major. The assessment will include both written and oral presentations of scientific information. In order to assess student progress in the objectives they will participate in the following courses or activities.

1. Students receiving a B.S. degree in Biology will take BIO 410. Written and oral presentations will be recorded and reviewed by faculty.
2. Students receiving a B.S. degree in Biology or Clinical Laboratory Science will take the major field exam prior to graduation.
3. Students receiving a B.S. Ed. degree with a major in Biology will take the MoGEA exam prior to graduation.
4. Students receiving a B.S. degree in Clinical Laboratory Science will be required to provide evidence of completion of a certified program.
5. Future employment status of all students receiving degrees in

Biology will be assessed by student participation in an employment survey following graduation.

Computer Science Requirement

Upon completion of the Biology, Biology Education or Clinical Laboratory Science degree programs at Lincoln University, students will have gained a basic understanding of computers and various software programs. Students will have the opportunity to gain the necessary computer knowledge and skills by taking BIO 314, BIO 410 or GIS 316, which are computer intensive.

Required Courses

A minimum of 40 upper division hours (those numbered 300 and above) is required for graduation.

Major: B.S. in Biology

A minimum grade of "C" in BIO 150, 104L, 155, 301, 310, 312, 314, 409, 410, and 426 or 429; a minimum of three courses with a combined minimum of 10 credit hours from the following list: BIO 208, 209L, 305, 400, 401, 403, 404, 406, 416, 423, 499; CHM 101, 102, 301, 302, 303, 304 and MAT 117.

Major: B.S.Ed. in Biology

In addition to the required professional education courses, a student must complete the following courses with a minimum grade of "C": BIO 150, 104L, 155, 301, 310, 312, 423 and 426; 4-5 credit hours of electives from the following list: BIO 208, 209L, 301, 314; CHM 101, 102, PHI 308, MAT 117, PHY 103, 104L, ENV 103, 104L.

Minor: A minimum grade of "C" in BIO 150, 104L, 155 and 10 credit hours of biology including a minimum of 6 credit hours at the 300-400 level.

Course Descriptions

Listed courses may not be taught every semester or every year. The department head and departmental advisors have information about projected course offerings for a semester/year.

BIO 100 Contemporary Issues in Biology (3, fa, sp) A lecture based course designed to give non-science majors an introduction to the basic biological concepts based in the context of contemporary issues in biology. Course emphasizes living systems at various levels, including cell biology, genetics, nutrition, evolution and human influence on biosphere by exploring the scientific process through current issues relevant to students' lives.

- BIO 103 PRINCIPLES OF BIOLOGY** (3, fa, sp, su). Introduction to basic concepts that are foundations of the life sciences. Three one-hour lectures. No laboratory. (Students who need a biology lab course should enroll concurrently in BIO 104L.)
- BIO 104L PRINCIPLES OF BIOLOGY LABORATORY** (1, fa, sp, su, LF). Hands-on investigations designed to reinforce basic concepts and principles common to the life sciences. Fulfills general education lab requirement. One two-hour laboratory. Prerequisite: Previously taken or concurrent enrollment in BIO 103 (or equivalent).
- BIO 106 GENERAL BOTANY** (4, sp, LF). External and internal structure and reproduction of plants and other photosynthetic organisms. Three one-hour lectures and one three-hour laboratory. Prerequisite: A grade of “C” or better in BIO 103 or BIO 150.
- BIO 150 BIOLOGY I** (3, fa, sp) Introduction to concepts in biology including the physical and chemical basis of life, the cell, genetics, evolution, diversity and ecology. This course is required for biology majors. Three one hour lectures. Corequisite: BIO 104L.
- BIO 155 BIOLOGY II** (4, sp, fa, LF). Structure, function and evolutionary history of Bacteria, Protista, Fungi, Plantae and Animalia. This course is required for biology majors. Two one-hour lectures and two two-hour laboratories. Prerequisites: A grade of “C” or better in BIO 103 or 150 and BIO 104L.
- BIO 175 SPECIAL TOPICS** (1-5 fa, sp, su). Topic to be listed in course schedule. May enroll again as topic changes. May not be used as a general education requirement.
- BIO 208 HUMAN ANATOMY AND PHYSIOLOGY** (3, fa, sp, su). An integrated study of morphological and functional aspects of the human body. Prerequisite: A grade of “C” or better in BIO 103 or 150 and BIO 104L. Corequisite: BIO 209L. Three one-hour lectures.
- BIO 209L HUMAN ANATOMY AND PHYSIOLOGY LAB** (2, fa, sp, su, LF). Laboratory observations that are designed to supplement lecture material presented in BIO 208 with an emphasis on morphological identification. Prerequisite: Concurrent enrollment in or previous completion with a “C” or better in BIO 208. Two two-hour laboratories.

- BIO 301 GENERAL MICROBIOLOGY** (4, fa, sp, su, LF). Morphology, classification, physiology, and cultivation of microorganisms. Prerequisites: A grade of “C” or better in BIO 103 or 150 and BIO 104L. Two one-hour lectures and two two-hour laboratories.
- BIO 305 HISTOLOGY** (4, LF). A microscopic study of animal tissues. Prerequisites: A grade of “C” or better in BIO 103 or 150 and BIO 104L. Two one-hour lectures and two two-hour laboratories.
- BIO 310 GENERAL GENETICS** (4, fa, LF). The chemical, molecular, and cytological basis for inheritance. Prerequisites: A grade of “C” or better in BIO 103 or 150 and BIO 104L and CHM 102. Three one-hour lectures and one three- hour laboratory. This course is designated writing intensive.
- BIO 312 MOLECULAR BIOLOGY OF THE CELL** (4, sp, LF). A course relating structure and function of cells at subcellular and molecular levels. Prerequisites: A grade of “C” or better in BIO 155 and CHM 102. Three one- hour lectures and one three-hour laboratory.
- BIO 314 GENERAL PHYSIOLOGY** (4, sp, LF). A study of the theoretical and applied concepts of animal physiology. Prerequisites: A grade of “C” or better in BIO 155 or AGR 101A and CHM 102. Three one-hour lectures and one three- hour laboratory.
- BIO 400 SPECIAL TOPICS IN BIOLOGY** (1-6, fa, sp su, LF may be required). Topic to be listed in course schedule; may or may not include laboratory, may re-enroll as topic changes. Prerequisite: A grade of “C” or better in BIO 103 or 150 and BIO 104L or consent of instructor.
- BIO 401 IMMUNOLOGY** (3, sp). Basic concepts inherent to field of immunology; antigens, antibodies, cells of the immune system; complement; immune reactions; host defense mechanisms; allergies; clinical implications. Prerequisites: A grade of “C” or better in BIO 103 or 150 and BIO 104L and CHM 101. Three one-hour lectures.
- BIO 403 PARASITOLOGY** (4, LF). A survey of parasitism in various animal phyla with emphasis on host-parasite relationships and vector associations. Prerequisites: A grade of “C” or better in BIO 155. Two one-hour lectures and two two-hour laboratories.

- BIO 404 RESEARCH IN BIOLOGY** (1-3, fa, sp, su, LF, may re-enroll, maximum 6 credits towards major). Individual research involving a survey of biological literature, experimental design, collection, analysis and reporting of data. Open to junior and senior biology majors. Prerequisite: Biology majors, written consent of instructor, see department head for further information.
- BIO 406 EVOLUTION** (3). Analysis of the theories of the origin of living organisms and mechanisms of evolutionary change. Prerequisite: A minimum of twelve hours credit in biology. Three one-hour lectures.
- BIO 409 CRITICAL EXAMINATION OF SCIENTIFIC WRITING** (1, fa). Critical reading and discussion of scientific literature. Prerequisite: Minimum of junior standing; at least 8 hours of 300-400 Biology credits.
- BIO 410 SEMINAR IN BIOLOGY** (1, sp). Oral and written reports of selected topics in biology. This course is designated writing intensive. Prerequisites: BIO 409. For BLS purposes, course may be considered CAPSTONE.
- BIO 416 DEVELOPMENTAL BIOLOGY** (4, LF). Fundamental principles of embryonic development. A grade of "C" or better in Prerequisites: BIO 155. Two one-hour lectures and two two-hour laboratories.
- BIO 423 ECOLOGY** (4, fa). This course will present the dynamics of coexistence among species and their interactions with the physical environment. Prerequisites: A grade of "C" or better in BIO 103 or 150 and BIO 104L and junior standing. Four one-hour lectures.
- BIO 426 TAXONOMIC BOTANY** (4, fa, even, LF). The study of vascular plant diversity and evolutionary history. A plant collection will emphasize identification and recognition of regional species. Prerequisites: A grade of "C" or better in BIO 155 or 106 or AGR 107. Two one-hour lectures and two two-hour laboratories.
- BIO 429 PLANT PHYSIOLOGY** (4, fa, odd, LF). The study of how plants function. Chemical and physical processes at the level of the organism, organ, cell, organelle and biomolecule. Prerequisites: A grade of "C" or better in BIO 155 or 106 or AGR 107 and CHM 102. Three one- hour lectures and one three-hour laboratory.

BIO 499 PRACTICUM IN BIOLOGY OR CLS (1-3, fa, sp, su, May re-enroll, maximum 6 credits towards major). Supervised field experience that will allow students to observe and document how working professionals perform their job responsibilities. Students will participate to a limited extent in performing tasks under supervision by program professors and on-site staff, and as allowed by experience and the law. Students are assigned (or can find opportunities themselves, if approved) to work in a research or professional setting and receive dual supervision from a biology faculty member and an official from the company or agency to which the student is assigned.

CHEMISTRY

Assistant Professor:

Singh, Manish

Mission

The mission of the Chemistry program is to provide educational opportunities for students from various backgrounds to be successful in a complex, technological and diverse society. The program is dedicated to teaching the principles and concepts of physical sciences and demonstrating how it applies to our natural and social environment; provides majors with current and relevant programs that prepare them for employment or professional advancement and conducts laboratory and research experiences for undergraduates that reinforce learning and applications of empirical methods of science. The program accomplishes its goals through small classes and individual attention in a nurturing educational environment.

Degrees Offered

Bachelor of Science with a major in Chemistry

Bachelor of Science in Education with a major in Chemistry

Objectives

Students completing a degree in Chemistry will demonstrate

1. critical thinking and logical reasoning in chemistry content and knowledge
2. the ability to use laboratory equipment to conduct research
3. skills for successful employment in their field

Assessment Program

Assessment of chemistry knowledge and skills will take place in the junior and senior years of the majors. The assessment will include both written and oral presentations of scientific information. In order to assess student progress in the objective areas they will participate in the following courses or activities:

1. Students will participate in seminar courses and generate oral and visual presentations.
2. Students receiving a B.S. in Chemistry will take the major field exam prior to graduation.
3. Students receiving a B.S. Ed. in Chemistry will take the Praxis exam prior to graduation.
4. Future employment status of all students receiving degrees in Chemistry will be assessed by student participation in an employment survey following graduation.

Computer Science Requirement

Upon completion of the Chemistry or Chemistry Education degree programs at Lincoln University, the student will have gained a basic understanding of computers and various science software programs. Students will have the opportunity to gain the necessary computer knowledge through participation in department sponsored/presented workshops. Students will also have opportunities to develop computer skills in other science courses which require the use of the computer.

Required Courses

A minimum of 40 upper division hours (those numbered 300 and above) is required for graduation.

Major: B.S. in Chemistry

A minimum grade of "C" in CHM 101, 102, 202, 301-302, 303-304, 306-307, 401-402, 403-404, 405, 409, and 410; MAT 123, 203, 304; PHY 101-102 or 201-202; and at least one course in computer programming is recommended: MAT 461 or its equivalent.

Major: B.S. Ed. in Chemistry

In addition to the required professional education courses, a student must complete the following courses with a minimum grade of "C": CHM 101, 102, 202, 301-302, 303-304, 306-307, 401, 403, 405, MAT 123, 203, 304; PHY 101-102 or 201-202; BIO 103, 104L, ENV103, 106L.

Minor: A minimum grade of "C" in CHM 101-102, 202, 301-302 and 303-304.

Course Descriptions

Listed courses may not be taught every semester or every year. The department head and departmental advisors have information about projected course offerings for a semester/year.

CHM 101 GENERAL CHEMISTRY I (4, fa, sp, LF, EP). Introduction to chemistry with emphasis on principles. Also includes a survey of the descriptive chemistry of the elements. Three one-hour lectures and one three-hour laboratory. Prerequisite: A grade of "C" or better in MAT 111.

CHM 102 GENERAL CHEMISTRY II (4, sp, fa, LF, EP). A continuation of CHM 101. The laboratory work includes an introduction to semi-micro qualitative analysis. Three one-hour lectures and one three-hour laboratory. Prerequisite: A grade of "C" or better in CHM 101 and MAT 111.

CHM 103 LIVING WITH CHEMISTRY (3, fa, sp, su). A basic chemical principles course for non-majors, designed for general education and liberal studies students. Can be used to satisfy a part of the general education science requirement. Three one-hour lectures.

CHM 104L LIVING WITH CHEMISTRY LABORATORY (1, fa, sp, LF, EP). A basic chemical principles laboratory to accompany the Living with Chemistry course. Fulfills general education lab requirement. One two-hour laboratory. Prerequisite: CHM 103 or concurrent enrollment in CHM 103.

CHM 175 SPECIAL TOPICS (1-5, fa, sp, su, LF maybe required). Topic to be listed in course schedule. May enroll again as topic changes. May not be used as a general education requirement.

- CHM 202 QUANTITATIVE ANALYSIS** (4, sp, LF, EP). Elementary gravi-metric and volumetric analysis with introduction to instrumental methods. Prerequisite: A grade of “C” or better in CHM 102. Two one-hour lectures and two three- hour laboratories.
- CHM 301 ORGANIC CHEMISTRY I** (3, fa). Preparation and properties of organic compounds. Stress is placed on the theoretical foundations of the subject. Three one-hour lectures. Prerequisite: A grade of “C” or better in CHM 102.
- CHM 302 ORGANIC CHEMISTRY II** (3, sp). A continuation of CHM 301, by which it must be preceded. Three one-hour lectures. Prerequisite: A grade of “C” or better in CHM 301.
- CHM 303L ORGANIC CHEMISTRY LABORATORY I** (1,fa, LF, EP). One three-hour laboratory. Prerequisite or Corequisite: CHM 301.
- CHM 304 ORGANIC CHEMISTRY LABORATORY II** (1,sp, LF, EP). One three-hour laboratory. Prerequisite or Corequisite: CHM 302.
- CHM 306 BIOLOGICAL CHEMISTRY** (3, fa). Chemistry and function of proteins, nucleic acids and other biologically important molecules. The major metabolic pathways necessary for the study of nutrition, biology and biochemistry are examined in detail. Three one-hour lectures. Prerequisite: either CHM 205 or 302 with a grade of “C” or consent of instructor.
- CHM 307L BIOLOGICAL CHEMISTRY LABORATORY** (1, fa, LF, EP). May accompany or follow CHM 306. One three-hour laboratory. Prerequisite: Same as CHM 306.
- CHM 400 RESEARCH IN CHEMISTRY** (1-3, fa, sp, may re-enroll, maximum 6 credits). Individual research involving a survey of chemical literature, experimental design, collection, analysis and reporting of data. Open to junior and senior chemistry majors. Prerequisite: Chemistry majors, written consent of instructor, see department head for further information.
- CHM 401 PHYSICAL CHEMISTRY I** (3, fa, odd). Laws and theories of chemistry. topics of interest in physics and chemistry. Includes thermodynamics, kinetics, quantum theory, spectroscopy, chemical bonding, and molecular structure. Three one-hour lectures. Prerequisites: A grade of “C” or better in MAT 203, CHM 202, PHY 102 or 202.

CHM 402 PHYSICAL CHEMISTRY II (3, sp, even). A continuation of CHM 401. Prerequisites: A grade of “C” or better in CHM 401. Three one-hour lectures.

CHM 403L PHYSICAL CHEMISTRY LABORATORY I (1, fa, odd, LF, EP). To accompany or follow CHM 401. Introduction to techniques of basic physicochemical measurements and illustration of physicochemical principles. One three-hour laboratory. Prerequisites: Same as for CHM 401.

CHM 404L PHYSICAL CHEMISTRY LABORATORY II (1, sp, even, LF, EP). A continuation of 403. One three-hour laboratory. Prerequisites: Same as for CHM 402.

CHM 405 INORGANIC CHEMISTRY (4, fa, even). A survey of modern inorganic chemistry. The material to be covered will include inorganic structures and reactions as well as applicable theories, coordination chemistry, bio- inorganic chemistry, solid state. Three one-hour lectures and one three-hour lab. Prerequisite: A grade of “C” or better in CHM 202.

CHM 409/ 410 CHEMISTRY SEMINAR (1, fa, sp). Written and oral reports on selected topics in Chemistry. Prerequisite: Minimum of twelve hours in chemistry. Junior or senior standing or consent of instructor. This course is designated writing intensive.

CHM 441 SPECIAL TOPICS IN CHEMISTRY (1-4, fa, sp, su LF may be required). Topics to be listed in course schedule; may or may not include laboratory; may re- enroll as topic changes. Prerequisite: Consent of instructor.

CHM 499 PRACTICUM IN CHEMISTRY (1-3, fa, sp, su, may re-enroll, maximum 6 credits towards major). Supervised field experience that will allow students to observe and document how working professionals perform their job responsibilities. Students will participate to a limited extent in performing tasks under supervision by program professors and on- site staff, and as allowed by experience and the law. Students are assigned (or can find opportunities themselves, if approved) to work in a research or professional setting and receive dual supervision from a chemistry faculty member and an official from the company or agency to which the student is assigned.

CLINICAL LABORATORY SCIENCE

Professors:

Busalacki, Aimee
Lee, Keesoo Scott, Michael

Assistant Professors:

Morin, Cynthia
Tipton, Alice

Students wishing to enter the field of Clinical Laboratory Science may obtain their preparatory training at Lincoln University. After the completion of 90 semester hours of approved college work, Lincoln University will award 30 semester hours of credit upon satisfactory completion of the clinical program at an American Medical Association approved School of Medical Technology. Prior to matriculation at an approved school of Medical Technology, the student must secure from the Lincoln University Registrar a certified statement indicating the satisfactory completion of all the requirements for the degree, with the exception of the clinical portion of the program. Following completion of the clinical program, Lincoln University will grant the B.S. in Clinical Laboratory Science degree.

Degrees Offered

Bachelor of Science with a major in Clinical Laboratory Science

Required Courses

Major: A minimum grade of “C” in BIO 150/104L, 155, 208/209L, 301, 312, 314, 401 and one of the following: 305, 310 or 403; CHM 101, 102, 202, 301, 302, 303, and 304; and MAT 117. PHY 101 and 102 and CHM 306 are strongly recommended.

The following courses or their equivalents are taken at an approved School of Medical Technology as part of the clinical program: CLS 425, 426, 427, 428, 429, 430 and 431.

Course Descriptions

Listed courses are not taught at Lincoln University. Clinical program will provide information about projected course offerings for a semester/year.

CLS 425 CLINICAL MICROBIOLOGY (6-8). The theory and laboratory study of pathogenic bacteria, viruses, rickettsiae, fungi, and parasites; includes specimen handling, methods of isolation, cultivation, diagnostic procedures, asepsis, environmental monitoring, medical significance, and quality control.

- CLS 426 CLINICAL CHEMISTRY (6-10).** Identification and quantification of specific chemical substances in blood and body fluids by various analytical techniques; clinical correlation with diagnosis and treatment of disease principles of instrumentation; toxicology; and quality control.
- CLS 427 CLINICAL HEMATOLOGY (4-7).** Theory of blood cell formation; morphology of cellular constituents; disease states; hemostasis; and coagulation testing; includes techniques and instrumentation used to determine major hematological and clotting parameters and quality control procedures.
- CLS 428 CLINICAL IMMUNOHEMATOLOGY (3-4).** Studies the common blood group systems; principles and procedures for antigen-antibody detection; cross-matching; blood collection and preservation; processing; the evaluation of transfusion reaction; and quality control procedures.
- CLS 429 CLINICAL IMMUNOLOGY (2-6).** Characteristics of antigen/antibody function and interaction; principles and procedures of humoral and cellular immune responses; performance of serological procedures; clinical correlation of abnormalities; and quality control.
- CLS 430 CLINICAL URINALYSIS (1-3).** Studies renal physiology and function in health and disease states; includes chemical and microscopic examination of urine, other excreta, and body fluids in relation to disease processes, along with quality control procedures.
- CLS 431 TOPICS IN MEDICAL TECHNOLOGY/CLINICAL LABORATORY SCIENCE (0-4).** Subject matter may include the following: hospital orientation, laboratory management, radioisotope techniques, quality control procedures, laboratory safety, special projects, special techniques, and seminars on various subjects deemed necessary by hospital personnel.

COMPUTER SCIENCE

Professor:

Shinkut, Martins

Associate Professors:

Greninger, Thomas

Heise, David

Instructors:

Nichols, Michael

Palangpour, David

Mission

The Computer Science/Computer Information Systems curriculum is geared towards preparing students to have the skills, the competencies and the knowledge to use computer information systems; pursue professional careers in computer-based information systems and systems analysis; and become business as well as scientific programmers. Thus, the curriculum is designed for computer programming and user-oriented application design and systems analysis.

Degrees Offered

Bachelor of Science with a major in Computer Information Systems

Associate of Applied Science in Computer Science

Objectives

Upon completion of the programs offered in Computer Science and Computer Information Systems, students will be able to:

1. demonstrate skills, competencies, and knowledge to develop and use computer information systems in the workplace
2. pursue professional careers and/or acquire the additional skills for attaining upward mobility in their current employment positions
3. seek careers in computer-based information systems and systems analysis
4. become business as well as scientific programmers
5. demonstrate an understanding of the latest techniques, systems, and operations currently in use in the workplace
6. compare favorably with other students completing similar programs in the nation

Assessment Program

The Student Outcomes Assessment Program is geared towards achieving methods in which students are assessed quantitatively. To that end, student outcomes will be assessed based on measurable and quantifiable parameters.

The graduates with a Bachelor of Science degree in Computer Information Systems (BS-CIS) and an Associate of Applied Science degree in Computer Science (AAS-CS) will have the training, the knowledge, and the expertise in their respective fields of training. Graduates of these programs will acquire comparable skills and training and will compare favorably with

CIS Option: Students electing the CIS option must also complete with a minimum grade of “C”: CS 235 or 245, 335, MAT 113 and 117, ACC 246, ECO 201 or 202, plus 6 hours of approved CS electives and 6 hours of electives from the areas of Business, Mathematics, Technology, GIS or electives as approved by the department head for a total of 65 hours.

CS Option: Students electing the CS option must also complete with a minimum grade of “C”: CS 339, MAT 117, 121, 123, 315, plus 3 hours of approved CS or ET electives at the 200 level or above and 7 hours of science electives including one laboratory class for a total of 64 hours.

Minor: Computer Information Systems

A student may minor in Computer Information Systems by completing the following courses with minimum grade of “C”: CS 101, CS 105 or 205, CS 235 or 237, 6 hours of upper division (above 300 level) CS courses, plus 6 more hours of any CS electives.

Course Descriptions

Listed courses may not be taught every semester or every year. The department head and departmental advisors have information about projected course offerings for a semester/year.

- | | |
|---------------|--|
| CS 101 | INTRODUCTION TO COMPUTER SCIENCE AND COMPUTER INFORMATION SYSTEMS (3, fa, sp). Students majoring in CS or CIS are introduced to a brief history of computers, numbering systems, Boolean logic, operations, and basics of programming concepts, decision making, and system development. |
| CS 103 | INTRODUCTION TO MICROSOFT OFFICE APPLICATIONS (3, fa). An introduction to Microsoft Office Applications using windows operating system. This course is primarily designed for non-computer science majors. Students develop basic skills in operating system commands, and the use of Microsoft Office Applications; word processing, electronic spreadsheets database and electronic presentation using PowerPoint. This course may not be used to meet CS/CIS major requirements. Three hours of combined lecture and laboratory. |
| CS 105 | BUSINESS APPLICATIONS FOR THE MICROCOMPUTER (3, fa, sp, su, LF) CS/CIS majors receive hands-on skill development in the use of the Windows operating system, word processing, electronic spreadsheets, file and database management systems, graphics, and other common application packages used with the microcomputer. Three hours of combined lecture and laboratory. |

- CS 190** **INTRODUCTORY TOPICS IN CS & CIS** (1-3, may include lab fee). Introductory topics in computer science and computer information systems appropriate for lower-division credit. Specific topics to be listed in the schedule. Prerequisites: Listed in the schedule when specific topic is offered, or instructor consent.
- CS 203** **ETHICS AND TECHNOLOGY** (3, sp). Issues and controversies comprising cyberethics, including the impact that technology and data have on moral responsibility in a professional context and day-to-day decisions affecting the individual and society. Prerequisite: None.
- CS 205** **ADVANCED MICROCOMPUTER APPLICATIONS** (3, LF). Students will receive hands-on skill development in advanced microcomputer operating system commands, electronic spreadsheets, file and data base management systems, graphics, and other common application packages. Emphasis will be on interfacing applications. Three hours of combined lecture and laboratory. Prerequisite None: CS 105 or prior experience in office productivity software recommended.
- CS 235** **INTRODUCTION TO BUSINESS APPLICATION PROGRAMMING USING COBOL** (3, LF). An introductory course in COBOL program design and development, applying a structured, multiphase program development process that features a series of steps that involve understanding a problem, format problem definition, and graphic design. Three hours lecture with outside laboratory assignments. Prerequisite: None.
- CS 237** **INTRODUCTION TO C++ PROGRAMMING** (3, fa, sp, LF). An introduction to the fundamentals of programming in the C++ programming language. Topics covered include: discussion of data types, looping, decision making, arrays, pointers, structures, and functions. Develops a background in programming which will assist in solving scientific and mathematical equations and problems. Three hours lecture with outside laboratory programming assignments. Prerequisite: None.
- CS 245** **MOBILE APPLICATION DEVELOPMENT** (3, sp). Introduces students to design and development related to mobile applications. Topics include accessing device capabilities, industry standards, operating systems, and programming for mobile applications using a Software Development Kit (SDK). Prerequisite: CS 105 or 205. CS 237 recommended.
- CS 286** **SECURE CODING** (3, fa). Foundations of secure programming, including strategies to avoid vulnerabilities pertaining to buffer overflow, memory management, data representation, concurrency, and input/output, with a focus on understanding implementation details underlying such vulnerabilities. Prerequisite: CS 237.

- CS 304 INTRODUCTION TO WEB DEVELOPMENT** (3, fa, odd). This course focuses on basic concepts of Web Design/Development principles using HTML, Cascading Style Sheets (CSS), PHP, Web Hosting/Templates, Word Press, Adobe Graphics, and client-side scripting with JavaScript. Prerequisite: CS 105 or 205.
- CS 305 VBA PROGRAMMING** (3). Provides the students with knowledge and experience of VBA programming in both EXCEL and ACCESS. Prerequisite: CS 105.
- CS 310 OPERATING SYSTEMS AND NETWORK OPERATING SYSTEMS** (3, sp, LF). The functions of various operating systems, their functional characteristics, and the interface through which the user addresses these operating systems are explored. Three hours lecture with outside laboratory assignments. Prerequisite: CS 235 or 237.
- CS 321 DATA FILES AND DATA BASES** (3, sp). Stresses basic knowledge in data structures, normalization of data, data modeling, database methods, and schema construction. Three hours lecture. Prerequisite: CS 105 or CS 205.
- CS 322 C-SHARP.NET** (3, LF). An Introduction to Microsoft C#, a widely used web language. Program and function, development, screen handling, use of text boxes, option buttons, check boxes, etc. Some file handling and some use of regular expressions. Prerequisite: CS 235 or 237.
- CS 326 INTRODUCTION TO SQL DATABASES** (3, LF). An introduction to features and programming of SQL DBMS; lectures with extensive laboratory assignments in SQL to create, update and maintain SQL databases. The SQL platform may be Oracle, DB2, MySQL, or other DBMS. Prerequisite: CS 321.
- CS 331 VISUAL BASIC.NET PROGRAMMING** (3, sp, even, LF). An introduction to the fundamentals of programming in Visual BASIC. Visual BASIC is a major programming language used with the Microsoft Windows environment and for programming Internet sites. Three hours lecture with outside laboratory assignments. Prerequisite: Any beginning programming language, CS 235 or 237.
- CS 335 INTERMEDIATE BUSINESS APPLICATION PROGRAMMING USING COBOL** (3, fa, odd, LF). A continuation of COBOL programming techniques designed to allow students to write programs for more advanced reporting and for indexed files. Students are introduced to interactive processing. Three hours lecture with outside laboratory assignments. Prerequisite: CS 235 or CS 237.

- CS 336 INTERNET PROGRAMMING WITH JAVA** (3, fa, LF). An introduction to the fundamentals of programming on the Internet using Java. Java is a major Internet language. Other Internet programming language such as JavaScript may be discussed. Prerequisites: CS 235 or 237 or permission of instructor.
- CS 338 OBJECT-ORIENTED PROGRAMMING USING C++** (3, fa, even, LF). An introduction to object-oriented programming (OOP) through the C++ programming language. This course covers user-defined data types, encapsulation, inheritance, object, polymorphism, constructors, and destructors. Three hours lecture with outside laboratory assignments. Prerequisite: CS 237.
- CS 339 DATA STRUCTURES AND ALGORITHM ANALYSIS** (3, sp). This course covers topics in advanced data structures and algorithms, including stacks, queues, linked lists, trees and graphs. Also included are searching graphs, hashing, external sorting, and recursion. Prerequisites: CS 336 or CS 338 and six hours of mathematics. MAT 315 suggested.
- CS 341 COMPUTER GRAPHICS IN BUSINESS** (3, sp, even, LF). Identifies the needs and applications for graphics in business, and highlights developments such as laser printers and advanced displays and techniques. Three hours lecture with outside laboratory assignments. Prerequisite: CS 105 or CS 205.
- CS 342 COMPUTER HARDWARE AND ARCHITECTURE** (3, fa, sp, LF). Provides an in-depth look at computer equipment, components and devices. The result will be an understanding of how computer systems are configured, upgraded and repaired. Three hours lecture. Prerequisites: CS 101.
- CS 343 PROGRAMMING LANGUAGES FOR INFORMATION SYSTEMS** (3, LF). Development of programs and implementation of computer information systems through use of three major families of programming languages: procedural, nonprocedural, and current generation. Three hours of combined lecture with outside laboratory assignments. Prerequisite: CS 321.
- CS 344 WEB DESIGN** (3, fa, even, LF). This course is designed to give the student a working knowledge of HTML and “Dreamweaver” software, as well as webpage and website design techniques. Upon completion of this course, students should understand the navigational structure of a website and be able to design and build easy-to-use informative websites. Prerequisite: CS 105 or CS 205.

- CS 351** **SYSTEM DEVELOPMENT METHODOLOGIES: A SURVEY** (3, fa). Traditional analysis, design, and implementation through a data flow analysis and systems development life cycle approach. Methods for structured analysis and design, data structures, data definition, and normalization are covered. Three hours lecture. Prerequisite: CS 235 or 237.
- CS 360** **END USER TRAINING AND SUPPORT** (3). Stresses information center methods for building systems in direct collaboration between users and analysts. This course covers end user services including education and training, hardware and software support, consulting, data access support and productivity aids. Prerequisites: CS 105.
- CS 365** **SCRIPTING LANGUAGES** (3, LF). Introduction to Scripting Languages, using PYTHON and PERL as primary tools, especially suitable for making complex data selections and file changes.
- CS 370** **INFORMATION ENGINEERING** (3). An introduction to Information Engineering (IE) modeling. Emphasis will be on the analysis phase of the IE life cycle. Students will analyze a process and model the data and the activities using IE modeling concepts and the Sterling Software COOL: Gen Tool. Three hours lecture. Prerequisite: CS 321 and 351.
- CS 385** **DIRECTED TUTORING** (1-3, fa, sp). Within a laboratory environment, students provide CS/CIS tutoring to other students. One hour credit given for each 3 hours of actual tutoring per week. Prerequisite: Permission of instructor.
- CS 390/
393** **SPECIAL TOPICS** (3, may include lab fee). Specific topics to be listed in the schedule. New topics of concern to computer science and computer information systems will be offered under this category. Prerequisite(s): Listed in the schedule when specific topic is offered. May be lecture only or a combination of lecture and laboratory (lab fee charged).
- CS 394** **INDEPENDENT STUDY** (3, fa, sp, su). A course of independent study on a computer science topic, in a mentoring environment, with one-on-one collaboration between faculty and student. Prerequisite: Must be a Computer Science major with at least junior standing. Permission of Department Head required.
- CS 395** **RESEARCH SEMINAR** (1-3, fa, sp). Seminar to provide a forum for discussing research topics, methods, and results. Prerequisite: Consent of Instructor.

- CS 421 DATA ANALYTICS** (3, sp, even). Topics will include data mining, business intelligence, and predictive analytics. Course will focus on the application of these techniques in the development of software applications. Prerequisite: MAT 117.
- CS 422 DATA WAREHOUSING** (3). This is the introduction to Data Warehousing. Topics will include software tools to be used, benefits of a DW, fact tables and dimensional determination, and a comparison of design methods. Prerequisite: CS 351.
- CS 441 ARTIFICIAL INTELLIGENCE** (3, sp, odd, LF). Presents the manager's responsibilities for problem solving and decision making using artificial intelligence, decision support systems and expert systems. The systems covered go beyond traditional program files and information. Three hours lecture with outside laboratory assignments. Prerequisite: CS 237 and MAT 117 or MAT 415.
- CS 442 NETWORKING AND DATA COMMUNICATIONS** (3, fa, even, LF). Covers microcomputer-based work stations, digital voice communication, local area networking, computer load sharing, decentralized transaction processing, distributed databases, and other evolving technologies. Three hours lecture with outside laboratory assignments. Prerequisite: CS 321.
- CS 443 CIS COMMUNICATION TECHNIQUES** (3, fa). Helps students to develop basic written communication techniques and presentation skills as they relate to Computer Information Systems. Theory and practice in writing and presenting technical papers, reports, and correspondence will be emphasized along with documentation procedures and handbook development. This course is designated writing intensive. Three hours lecture. Prerequisite: CS 351, ENG 102, SPT 206 or 207.
- CS 444 TCP/IP FUNDAMENTALS** (3, LF). A study of TCP/IP Fundamentals. Topics covered include installation, addressing, subnetting, routing, WINS, DHCP and security. There will be hands on exercises as well as lecture. Prerequisite: CS 442.
- CS 445 NETWORKING WITH MICROSOFT IIS** (3, LF). A study of Microsoft's Internet Information Services. Topics such as implementation and administration, WWW service, FTP service, Virtual directories and security will be covered. Prerequisite: CS 442.
- CS 446 MANAGEMENT OF INFORMATION SYSTEMS** (3, sp). Using the case study method, examines ways that information systems enable businesses to address customer demands, competition, and a rapidly changing technology. Three hours lecture. Prerequisite: CS 105 or CS 205.

- CS 447 PROJECT MANAGEMENT** (3, sp, odd). This is the introduction to project management for information systems. Topics will include scope management, cost and quality management, risk management, and procurement. Prerequisites: CS 351 or BAD 310 or CET 310.
- CS 451 SYSTEMS DEVELOPMENT PROJECT** (3, sp). A project course which emphasizes the development of a computer application using the life-cycle methodology. The class organizes into project teams, accepts developmental assignments, and follows the life cycle process to produce specifications for a current system. Three hours lecture. Prerequisites: CS 321 and 351.
- CS 460 CIS SEMINAR** (1, fa, sp). A capstone course required for CIS majors in their final year. A research paper and an oral presentation of a CIS related topic will be required for completion of the degree program. Prerequisites: CS 443 and completion of 105 hours.
- CS 481H HONORS SUMMER MENTORSHIP** (3, su). Designed to provide students with the opportunity to engage in individual research under the close supervision of a faculty member. Twenty hours of research required per week. Prerequisites: Previous honors coursework with 3.2 GPA; 3.2 cumulative GPA; junior standing; consent of department and Honors Committee.
- CS 482H HONORS THESIS** (3-6, fa, sp). Provides students with the opportunity to engage in a major research or creative project in their degree major under the direction of a thesis committee. Prerequisites: 18 hours of honors courses with 3.2 GPA; 3.2 cumulative GPA; senior standing; consent of department and thesis committee.
- CS 486 INTERNET AND NETWORK SECURITY** (3 sp, odd). This course introduces students to the broad subject of network security through the study of computer and network security principles, network and server security, securing network transmission, security management, fault tolerance and disaster recovery, intrusion detection and response, and remote access and wireless security. Prerequisite: CS 442.
- CS 497 NETWORKING INTERNSHIP** (3, fa, sp, su). May be repeated once for a total of 6 hours. Provides the student with an opportunity to apply networking skill in a supervised work setting. Each student will be required to complete a minimum of 320 hours at the designated internship facility. Prerequisites: Must be a major in CIS, have completed at least 5 upper division CIS courses, and must obtain consent of the Department Head.

CS 498 **COMPUTER INFORMATION SYSTEMS INTERNSHIP** (3-6, fa, sp, su). Provides students with an opportunity to apply their computer knowledge and skills in a work setting and begin to formulate a career plan through supervised instruction in business or government environment. Each student will be required to complete a minimum of 320 hours at the designated internship facility. May be repeated twice for a total of six credit hours. Prerequisites: Must be a major in CIS, have completed at least 5 upper division CIS courses, and obtain consent of the department.

MATHEMATICS

Professors:

Balakumar, Sivanandan

Associate Professors:

Morian, Christina

Instructors:

Clark, Stephanie

Schwartz, Kaitlyn

Zeitz, Matt

Mission

To provide students with quality instruction in Mathematics to satisfy the general education requirement and to provide quality programs in Mathematics and Mathematics Education that prepare students for immediate employment and professional or graduate study.

Degrees Offered

Bachelor of Arts with a major in

Mathematics Bachelor of Science with a

major in Mathematics

Bachelor of Science in Education with a major in Mathematics

Objectives

Students completing a degree in Mathematics will

1. have sufficient knowledge of algebra, trigonometry, geometry, statistics and calculus to compare favorably to students in similar programs throughout the United States
2. be able to solve problems, reason, communicate, represent, and connect mathematical ideas
3. show evidence of success in graduate study or find employment teaching mathematics

Assessment Program

Assessment of mathematics knowledge and skills will take place in the junior and senior years of the majors. In order to assess student progress in the objective areas, students will create a research project for MAT 406 and take the MEGA Test or Major Field Exam prior to graduation.

Computer Skills Requirement

Upon completion of the mathematics major at Lincoln University, students will have gained proficiency with the graphing calculator and a basic understanding of a computer algebra system such as Mathematica. Students will satisfy the computer literacy requirement through completion of MAT 461, which is a computer intensive course.

Required Courses

Listed courses may not be taught every semester or every year. The department head and departmental advisors have information about projected course offerings for a semester/year.

Major: B.S. or B.A. in Mathematics

A minimum of 27 semester hours with a minimum grade of “C” in MAT 123, 203, 304, 315, 324, 403, 406; plus an additional 9 hours depending on option selected. Students electing the applied option will also take MAT 405, 461, 467. Students electing the classical option will take MAT 409, 413 and 461. Students electing the computer science option will also take CS 237, CS 338 and CS 339.

Major: B.S. Ed. in Mathematics

A minimum of 36 semester hours with a minimum grade of “C” in MAT 123, 203, 304, 315, 403, 405, 406, 407, 409 and 461.

Middle School Certification Requirements – Mathematics Requirements for Elementary Education Majors:

A minimum of 24 semester hours with a minimum grade of “C” in MAT 118, 119, 120 or 123, 301, 302 or 407, 315, 405, and 406.

Elementary Education Major with a mathematics-computer science concentration: 9 hours of mathematics courses beyond MAT 111 (such as MAT 113, 115, and 117), 9 hours of computer science courses (such as CS 101, 105 and 344).

Minor: Classical Mathematics Option

A minimum grade of “C” in MAT 123, 203, 315, 324 and 409. **Computational Mathematics Option**

A computational math option requires a minimum grade of “C” in MAT 123, 203, 324, 461, and 467.

Statistics Option

A statistics option requires a minimum grade of “C” in MAT 123, 203, 405, 415, and 461.

Course Description

Listed courses may not be taught every semester or every year. The department head and departmental advisors have information about projected course offerings for a semester/year.

MAT 111 INTERMEDIATE ALGEBRA (3,fa,sp). Linear equations and inequalities, graphing, linear systems, polynomials, factoring, rational expressions, radicals, and quadratic equations. ACT score of 17 or lower and a major that requires algebra or calculus.

- MAT 112** ***APPLIED ALGEBRA FOR BUSINESS AND SOCIAL SCIENCE*** (3). Graphs, functions, systems of equations and inequalities, linear programming, mathematics of finance, matrix algebra, logarithmic and exponential functions and elements of statistics. A graphing calculator is required. Prerequisites: MAT 111 with a grade of “C” or better or satisfactory placement score.
- MAT 113** **COLLEGE ALGEBRA** (3, fa, sp, su). Study and graphing of polynomial, rational, logarithmic and exponential functions, matrices and determinants, and systems of equations and inequalities. Graphing calculator required. Prerequisite: MAT 111 with a grade of “C” or better or satisfactory placement score.
- MAT 114** **PLANE TRIGONOMETRY** (3, fa, sp). A study of the trigonometric functions including graphing, identities, solutions of trigonometric equations and solution of triangles. Graphing calculator required. Prerequisite: MAT 113 with a grade of “C” or better or satisfactory placement score.
- MAT 115** **CONTEMPORARY MATHEMATICS** (3, fa, sp). A survey course designed to increase quantitative reasoning and understanding of how mathematics affects modern society. Areas of mathematics to be surveyed include statistics and probability, mathematical modeling, and logical analysis of quantitative information. Prerequisite: MAT 110 or MAT 111 or equivalent with a grade of “C” or better or satisfactory placement score.
- MAT 117** **ELEMENTARY STATISTICS** (3, fa, sp, su). Descriptive and inferential statistics including frequency distributions, measures of central tendency and variation, probability and sampling distributions, tests of hypothesis, confidence intervals, linear correlation and regression. Prerequisite: MAT 111 with a grade of “C” or better or satisfactory placement score.
- MAT 118** **MATHEMATICAL FOUNDATIONS FOR ELEMENTARY TEACHERS** (3). A theoretical analysis of arithmetic and algebra designed for prospective elementary teachers. This course is required for elementary education majors and will not meet the general education requirement for any other major. Prerequisite: MAT 111 with a grade of “C” or better or satisfactory placement score.
- MAT 119** **GEOMETRY AND STATISTICS FOR ELEMENTARY TEACHERS** (3). A continuation of MAT 118 including the study of geometry and statistics. This course is required for elementary education majors and will not meet the general education mathematics requirement for any other major. Prerequisite: MAT-111 with a grade of “C” or better.

- MAT 120 CONCEPTS OF CALCULUS (3).** This course surveys the major concepts of calculus including functions, limits, differential and integral calculus. This course is designed for non-majors and those seeking certification to teach in middle school. Graphing calculator required. Prerequisite: MAT 113 or MAT 112 or MAT 121 with a grade of “C” or better or satisfactory placement score.
- MAT 121 PRECALCULUS MATHEMATICS (5, fa, sp).** A unified course with the same content as MAT 113 and MAT 114. Graphics calculator required. Prerequisite: MAT 111 with a grade of “C” or better or satisfactory placement score.
- MAT 123 CALCULUS I (5, fa, sp).** Plane analytic geometry, functions, limits, continuity, differentiation and applications, antiderivatives, the definite integral, and logarithmic and exponential functions. Graphics calculator required. Prerequisites: MAT 113 and MAT 114 or MAT 121 with a grade of “C” or better or satisfactory placement score.
- MAT 175 SPECIAL TOPICS (1-5).** Topic to be listed in course schedule. May enroll again as topic changes. May not be used as a general education requirement.
- MAT 203 CALCULUS II (5, fa).** Techniques and applications of integration; trigonometric functions; graphs with polar and rectangular coordinates, including conic sections, infinite series, plane, parametric and polar curves. Graphics calculator required. Prerequisite: MAT 123 with a grade of “C” or better.
- MAT 300 TOPICS IN MATHEMATICS (1-3, fa, sp).** An in-depth study of a topic of mathematics. May not be used to satisfy General Education requirement in mathematics. Prerequisite: Permission of Department Head.
- MAT 301 ELEMENTS OF FUNCTION ANALYSIS (3).** Study of functions used to model algebra, probability, trigonometry and logarithm. Prerequisite: MAT 112 or MAT 113 and MAT 117.
- MAT 302 ELEMENTS OF GEOMETRY (3, sp even).** This course will focus on applications of concepts on two- and three-dimensional Euclidean geometry, including constructions, transformations and measurement. Other topics studied in this course will include topology, finite geometries and software such as Geometer’s Sketch Pad. Computer and graphics calculator applications will be used. Prerequisite: MAT 113, MAT 114 or 119 with a grade of “C” or better.
- MAT 304 CALCULUS III (5, sp).** Solid analytic geometry, vectors, partial derivatives, multiple integrals. Graphing calculator required. Prerequisite: MAT 203 with a grade of “C” or better.

- MAT 315 TECHNIQUES OF MATHEMATICAL PROOFS** (3, fa). Elementary logic and set theory; cardinality of sets; mathematical induction and other strategies for proving fundamental results in number theory, abstract algebra, and real analysis. Prerequisite: MAT 123.
- MAT 324 DIFFERENTIAL EQUATIONS** (3, sp). First order differential equations, linear differential equations of higher order, power series solutions. Laplace transforms systems of linear differential equations with applications. Graphing calculator required. Prerequisite: MAT 203. Students are encouraged to take MAT 304.
- MAT 390 DIRECTED TUTORING** (3, fa, sp). Supervised tutoring. Student may enroll for a total of 6 credit hours will not count toward the major. Prerequisite: Permission of Department Head.
- MAT 403 LINEAR ALGEBRA** (3, fa). Matrices and determinants, solution of linear systems, vector space theory, eigenvalues and eigenvectors, linear transformations, and selected applications. Prerequisite: MAT 304 or concurrent enrollment in 304 with consent of instructor.
- MAT 405 APPLIED STATISTICS** (3, fa). Types of data models, estimation and hypothesis testing on parameters, chi-square tests, analysis of variance, regression and correlation, multiple regression, and non-parametric statistical methods. Prerequisite: MAT 117, and MAT 120 or 123.
- MAT 406 HISTORY OF MATHEMATICS** (3, sp odd). A problem-solving approach to the historical development of mathematics and the study of the men and women who contributed to this development. This course is designated writing intensive. Prerequisite: MAT 120 or 123.
- MAT 407 MODERN GEOMETRY** (3, fa even). Axiomatic study of Euclidean and non- Euclidean geometry. Topics of Euclidean geometry include incidence, convexity, the Parallel Postulate, Pasch's Theorem, and the geometry of transformations. Non-Euclidean geometry includes some finite and hyperbolic geometries. Prerequisite: MAT 120 or 123.
- MAT 409 ABSTRACT ALGEBRA** (3, sp). Algebraic structures; groups, rings and fields. Prerequisite: MAT 315.

- MAT 413 INTRODUCTION TO REAL ANALYSIS** (3, sp). Foundations of real numbers, analysis of real-valued functions of one variable, including limit, derivative, continuity. Students are strongly encouraged to take an upper level theoretical mathematics course before taking MAT 413. Prerequisite: MAT 304 and MAT 315.
- MAT 414 ADVANCED CALCULUS** (3,). Differential and integral calculus of functions of several variables, including vector functions, differentials, approximations, implicit and inverse function theorems. Prerequisite: MAT 304.
- MAT 415 MATHEMATICAL STATISTICS** (3, sp odd). Theory of probability, random variable, probability distributions and probability densities, mathematical expectation. Sampling distributions, introduction to estimation, confidence intervals and tests of hypotheses. Prerequisite: MAT 123.
- MAT 421/422 SPECIAL TOPICS IN MATHEMATICS** (1-5, fa, sp, su).
 422 Topic to be listed. Schedule; may re-enroll in as topic changes.
 Prerequisite: 18
 hours of required major courses and consent of instructor.
- MAT 450 INDEPENDENT STUDY** (3, fa, sp, su). A course of independent study on a mathematical topic, in a mentoring environment, with one-on-one collaboration between faculty and student. Prerequisite: Permission of Department Head.
- MAT 461 INTRODUCTION TO MATHEMATICAL PROGRAMMING** (3, fa). Programming techniques for mathematics/science majors. Prerequisites: MAT 203 and concurrent enrollment in MAT 304.
- MAT 467 NUMERICAL ANALYSIS** (3, sp). Numerical methods for solving an equation or systems of equations, numerical differentiation and integration, interpolating polynomials, numerical solution of differential equations; computer programs for selected methods. Prerequisite: MAT 304 and 461.

PHYSICS

Professor:

Balasubramaian, Sunder

Assistant Professor:

Mishra, Ajay

Mission

The mission of the Physics program is to provide educational opportunities for students from various backgrounds to be successful in a complex, technological and diverse society. The program is dedicated to teaching the principles and concepts of physical sciences and demonstrating how it applies to our natural and social environment; provides majors with current and relevant programs that prepare them for employment or professional advancement and conducts laboratory and research experiences for undergraduates that reinforce learning and applications of empirical methods of science. The program accomplishes its goals through small classes and individual attention in a nurturing educational environment.

Degrees Offered

Bachelor of Science with a major in Physics

Bachelor of Science in Education with a major in Physics

Objectives

Students completing the B.S. degree in Physics or the B.S. Ed. degree with a major in Physics will:

1. acquire a basic understanding of major concepts of physical processes in their environment
2. gain the ability to observe, measure, analyze, and interpret data from the physical environment
3. demonstrate the ability to express themselves effectively in both written and oral scientific communication
4. show evidence of success in graduate study or employment in fields related to physics

Assessment Program

Assessment of physics knowledge and skills will take place in the junior and senior years of the majors. The assessment will include both written and oral presentations of scientific information as well as a detailed examination of their scientific experiences. In order to assess student progress in the objective areas they will participate in the following courses or activities:

1. Students will generate a portfolio of their laboratory reports, homework and essay exams and participate in class presentations which will be documented for later review.
2. Students receiving a B.S. degree in physics will take the major field exit exam prior to graduation.
3. Students receiving a B.S.Ed. degree with a major in physics will take the Praxis exam prior to graduation.

4. Future employment status of all students receiving degrees in Physics will be assessed by student participation in an employment survey following graduation.

Computer Skills Requirement

Upon completion of the Physics or Physics Education degree program at Lincoln University, the student will have gained a basic understanding of computers and various software programs. Students will have the opportunity to gain the necessary computer knowledge and skills by taking CS 103 (or the equivalent). Students will also have opportunities to develop computer skills in other science courses which require the use of the computer.

Required Courses

A minimum of 40 upper division hours (those numbered 300 and above) is required for graduation.

Major: B.S. in Physics

A minimum grade of "C" in PHY 201, 202, 300, 301, 306, 316, 320, 330, 340L and 410; CHM 101 and 102; MAT 123, 203, 304 and 324.

Major: B.S. Ed. in Physics

In addition to the required professional education courses, a student must complete the following courses with a minimum grade of "C": PHY 103, 104L, 201, 202, 300, 301, 306, 316, 320, 330, 340L and 410; CHM 101 and 102; MAT 123, 203, 304, 324, and PHI 308.

Minor: At least 18 credit hours with a minimum grade of "C" in PHY 201, 202, 340L, and 7-9 credit hours of 300-400 level Physics courses.

Course Descriptions

Listed courses may not be taught every semester or every year. The department head and departmental advisors have information about projected course offerings for a semester/year.

PHY 101 COLLEGE PHYSICS I (4, fa, LF). Course includes mechanics, heat, and sound. Calculus not used. Applications for the life sciences will be emphasized. Three two-hour activity-based classes with embedded labs. Prerequisite: A grade of "C" or better in MAT 111; MAT 113 or 121 recommended.

PHY 102 COLLEGE PHYSICS II (4, sp, LF). Continuation of PHY 101. Course includes electromagnetism, light and optics. Applications for the life sciences will be emphasized. Three two-hour activity-based classes with embedded labs. Prerequisite: A grade of "C" or better in PHY 101; MAT 114 or 121 recommended.

- PHY 103 EARTH SCIENCE** (3, fa, sp). Fundamental physical principles with specific applications to meteorology, astronomy, geology, and oceanography. Students needing a physical science lab course should enroll concurrently in PHY 104. Three one-hour lectures.
- PHY 104L EARTH SCIENCE LABORATORY** (1, fa, sp, LF). Laboratory course designed to engage students in experiments relating to physical principles and their applications. Fulfills general education lab requirement. One two- hour laboratory. Prerequisite: Previously taken or concurrent enrollment in PHY 103.
- PHY 105 INTRODUCTORY ASTRONOMY** (3, fa, sp). A survey course in contemporary astronomy, methods and instruments of astronomy, the solar system, planets, moons, the sun, stars, stellar formation and evolution, galaxies, and cosmology.
- PHY 106L INTRODUCTORY ASTRONOMY LAB** (1, fa, sp, LF). A laboratory course to accompany Introductory Astronomy. A combination of outdoor observations of the sky and indoor experiments in the physical background of astronomy and measurement techniques used in astronomy. Prerequisite: PHY 105 or concurrent enrollment in PHY 105.
- PHY 175 SPECIAL TOPICS** (1-5, fa, sp, su, LF maybe required). Topic to be listed in course schedule. May enroll again as topic changes. May not be used as a general education requirement.
- PHY 201 GENERAL PHYSICS I** (5, fa, LF). Calculus-based course designed to meet the needs of majors in physics, chemistry and mathematics, and students who plan to study engineering. Course includes mechanics, heat and waves. Three two-hour activity-based classes with embedded labs and one one-hour problem solving class. Prerequisite: A grade of “C” or better in MAT 123.
- PHY 202 GENERAL PHYSICS II** (5, sp, LF). Continuation of Physics 201; course includes electromagnetism, light and atomic physics. Three two-hour activity-based classes with embedded labs and one one-hour problem solving class. Prerequisites: A grade of “C” or better in PHY 201 and MAT 203.

- PHY 210** ***WORLD ENERGY: RESOURCES AND UTILIZATION (3).*** *A study of world energy resources including solar, wind, fossil fuel, nuclear, tidal, hydro, and geothermal energies; the study will include considerations of energy collection, utilization, distribution, and degradation. Emphasis may be given during any given semester to one particular form of energy (and its utilization, etc.). Three one-hour lectures. Prerequisite: Either PHY 101 or PHY 103 or PHY 201 or the equivalent.*
- PHY 300** **METHODS OF MATHEMATICAL PHYSICS (3).**Advanced mathematical techniques with an emphasis on applications in physics. Topics will include vector calculus, differential equations, infinite series, complex variables, Fourier series, and integral transforms. Prerequisites: A grade of “C” or better in PHY 201-202, Corequisite: MAT 304.
- PHY 301** **MECHANICS (3, fa).** Principles and techniques of mechanics dealing primarily with classical problems in particle and rigid body dynamics. Vector analysis. Newtonian, Lagrangian, and Hamiltonian formulations. Three one-hour lectures. Prerequisites: A grade of “C” or better in PHY 201-202; MAT 304 corequisite.
- PHY 306** **OPTICS (3, sp).** Geometrical and physical optics; image formation by lenses and mirrors, interference, diffraction, polarization, optical aspects of spectrometry. Three one-hour lectures. Prerequisites: A grade of “C” or better in PHY 201-202; MAT 304 corequisite.
- PHY 316** **ELECTRICITY AND MAGNETISM (3, fa).** Charges at rest, charges in motion and their magnetic effects, Maxwell’s equations and electromagnetic waves. Three one-hour lectures. Prerequisites: A grade of “C” or better in PHY 201- 202; MAT 304 corequisite.
- PHY 320** **MODERN PHYSICS (3, fa).** Foundations of wave mechanics, including quantum effects, special relativity, wave-particles, nature of matter, electromagnetic energy, atomic spectra, and optics. Three one-hour lectures. Prerequisites: A grade of “C” or better in PHY 201-202; MAT 304 corequisite.
- PHY 330** **HEAT AND THERMODYNAMICS (3, sp).** Laws of thermodynamics, engine cycles, temperature, entropy, internal energy, phase rule, heat transfer. Three one-hour lectures. Prerequisite: A grade of “C” or better in PHY 201-202; MAT 304 corequisite.

- PHY 340L ADVANCED LABORATORY** (1, sp, LF). Introduction to the use of experimental apparatus and modern laboratory techniques. Experiments will be selected from areas of modern physics, optics, and electronics. This course is designated writing intensive. Prerequisites: A grade of “C” or better in PHY 201-202.
- PHY 400 RESEARCH IN PHYSICS** (1-3, fa, sp, su may re-enroll, maximum 6 credits). Individual research involving a survey of physics literature, experimental design, collection, analysis and reporting of data. Open to junior and senior physics majors. Prerequisite: Physics majors, written consent of instructor, see department head for further information.
- PHY 401 SPECIAL TOPICS IN PHYSICS** (1-4, fa, sp, su LF may be required). Topic to be listed in course schedule; may or may not include laboratory; may re- enroll as topic changes. Prerequisites: PHY 101-102 or 201-202 and consent of instructor.
- PHY 410 QUANTUM MECHANICS** (3, sp). Introduction to the theory of Quantum Mechanics, including the wave function, eigenvalue problems, the time- independent Schrodinger Equation, Quantum systems in three dimensions, and time-independent perturbation theory. Prerequisites: A grade of “C” or better in PHY 201-202, PHY 320, MAT 324.
- PHY 499 PRACTICUM IN PHYSICS** (1-3, fa, sp, su, may re-enroll, maximum of 6 credits towards major). Supervised field experience that will allow students to observe and document how working professionals perform their job responsibilities. Students will participate to a limited extent in performing tasks under supervision by program professors and on-site staff, and as allowed by experience and the law. Students are assigned (or can find opportunities themselves, if approved) to work in a research or professional setting and receive dual supervision from a physics faculty member and an official from the company or agency to which the student is assigned. Prerequisites: Physics major, junior/senior standing, prior permission of the instructor.

TECHNOLOGY

Assistant Professors

Meysami, Ahmad
Boadi-DanQuak, Eugene

Mission

The Technology curriculum is geared towards preparing students in Civil Engineering Technology, Drafting Technology and Pre-Engineering. Incorporating the developments and use of computers in the engineering field, students are prepared for a profession in civil engineering and architectural consulting, design, and construction industries.

Degrees Offered

Bachelor of Science with a major in Civil Engineering Technology
Associate of Applied Science with a major in Drafting Technology
Associate of Science with a major in Pre-Engineering

Objectives

Upon completion of the programs offered in Technology, students will:

1. comprehend and apply the concepts of technology – its tools, materials and processes
2. have problem-solving and decision making abilities involving human and material resources, processes and technological systems
3. have the skills necessary for life-long learning in vocational, technical and industrial education
4. have the knowledge, expertise, and up-to-date training in technology, and
5. acquire comparable skills and will compare favorably with other students completing similar programs in the nation.

Assessment Program

Two methods of assessment shall be employed. These are the Exit Examination and the Graduate Employees Survey.

With the exception of the Pre-Engineering program, exit examinations shall be given to all graduating students. The exit examinations shall be prepared to reflect the major courses of the programs. Exit examinations of these programs shall be reviewed every two years to reflect new courses developed and offered.

Reports and surveys from employers of graduates will be collected and analyzed at the end of each academic year. The survey shall be prepared to quantitatively assess student's knowledge and training.

Data collected from the exit exam and internship survey will be analyzed by faculty to identify areas of strength and weakness, to plan changes and modifications as to training needs and to assess the trend of the profession as a whole.

As per the two + two articulation agreement between Lincoln University and Missouri University of Science & Technology (Missouri S&T-former UMR) and University of Missouri-Columbia (UMC), graduates of the Pre-

Course Descriptions

Listed courses may not be taught every semester or every year. The department head and departmental advisors have information about projected course offerings for a semester/year.

CIVIL ENGINEERING TECHNOLOGY

- CET 105 ENGINEERING GRAPHICS I WITH AUTOCAD** (3, fa, sp, LF). Fundamental principles of technical drawing. Topics include basic computer operations, getting started to use AutoCAD, fundamentals of 2D construction, drawing and design, sketching, orthographic views, sectional views and dimensioning. Two hours lecture and four hours lab.
- CET 106 ENGINEERING GRAPHICS II WITH AUTOCAD** (3, sp, LF). Topics include dimensioning tolerances, threads and fasteners, gears, bearings and cams. Working drawing, fundamentals of 3D drawing, solid modeling, and descriptive geometry. Two hours lecture and four hours lab. Prerequisite: CET 105.
- CET 201 ENGINEERING MECHANICS** (4, sp). Application and principles of mechanics to engineering problems of equilibrium. Topics include resultants, resolution of forces, equilibrium, friction, center of gravity, first- area-moment, moment of inertia, simple beams, and determinate plane trusses, frames and structures. Four hours lecture. Prerequisites: PHY 101, MAT 123.
- CET 202 STRENGTH OF MATERIALS** (4, fa, odd, LF). Application of the principles of mechanics to engineering problems of strength and stiffness. Topics include stress and deformation of elastic materials, thin cylinders, torsion, beams, column, and combined stresses at a point. Four hours lecture. Prerequisite: CET 201.
- CET 211 CIVIL ENGINEERING DRAWING** (3, fa, even, LF). This course is an engineering focused drafting course utilizing Computer-Aided Drafting and Design (CADD) software that develop computer skills and electronic skills and applications within engineering and applications of drafting within manufacturing. Two hours lecture and four hours lab. Prerequisite: CET 105.
- CET 212 ELEMENTARY SURVEYING** (3, su, odd, LF). Theory and application of the principles of plane surveying. Use of conventional instruments, tapes and theory of angular and linear measurements, leveling, traverse, traverse computation, and topographic surveying are discussed. Two hours of lecture and four hours of lab. Prerequisites: MAT 113

- CET 250** **ENGINEERING MECHANICS-DYNAMICS** (3, fa, even). Application of the principles of mechanics to engineering problems as they apply to motion and acceleration, including plane motion, force, mass, work and energy. Three hours lecture. Prerequisite: CET 201.
- CET 304** **STRUCTURAL ANALYSIS** (4, fa, even). Analysis of statically determinate beams, frames, and trusses, shear and bending moment diagrams influence lines, and beam deflections. Analysis of statically indeterminate structures, area- moment, slope deflection, moment distribution; energy methods, use of computers in problem solving stresses. Four hours lecture. Prerequisite: CET 201.
- CET 310** **CONSTRUCTION TECHNIQUES AND MATERIALS** (3, su, even). A study of construction methods and procedures and also of the origin, production, use, and properties of construction materials. Three hours of lecture. Prerequisite: CET 106.
- CET 312** **INTERMEDIATE SURVEYING** (2, fa, odd) Practical application of surveying principles. Triangulation and trilateration land surveying. Engineering surveying to include building layout, highway vertical and horizontal curves and the survey of bridges, tunnels and earthwork. Use of computers in problem solving is introduced. Prerequisite: CET 212.
- CET 320** **ARCHITECTURAL WORKING DRAWING AND BLUEPRINT READING** (3, fa, odd, LF). The preparation and interpretation of working drawings as they apply to the different crafts in the construction of a building, including plans, elevations, sections, detail drawing, and the fundamental of blueprint reading and interpretation as they pertain to machine drawing. Three hours of lecture and three hours of lab. Prerequisite: CET 106.
- CET 331** **MATERIALS TESTING LABORATORY** (1, fa, odd, LF). Tests to determine the physical properties and behavior of construction and engineering materials including steel, iron-carbon alloys, aluminum, concrete, wood and plastics. ASTM AASHTO testing procedures, instrumentation and the analysis and interpretation of test data. Three hours lab. Prerequisites: CET 201 and concurrent enrollment in CET 202.
- CET 332** **INTRODUCTION TO ENVIRONMENTAL TECHNOLOGY** (3). Introduction to hazardous materials and waste; pollution control and waste minimization; environmental regulations; case study. Three hours lecture.

- CET 350 FLUID MECHANICS (3).** A study of the behavior of fluids at rest and in motion. Concepts of statics and dynamics of fluids. Emphasis on the principles and application of continuity, momentum, energy. Some introduction to open channel flows and hydrodynamics. Three hours lecture. Prerequisite: MAT 123.
- CET 355 WATER AND WASTE WATER TECHNOLOGY (3).** A study of quantity, treatment and distribution of water; and of the collection, treatment and disposal of waste water. Three lecture hours. Prerequisite: CET 350.
- CET 360 SOIL MECHANICS AND FOUNDATIONS (4, sp, even).** Introduction to soil engineering. Identification of soils and application of soil for engineering purposes. Methods of exploration and soil testing required for design of foundation retaining walls and techniques of mechanics measurement. Identification and classification of soils, moisture-density relationships, shearing strength, permeability, capillarity and consolidation. Four hours lecture. Prerequisite: CET 201.
- CET 361 SOIL MECHANICS LABORATORY (1, sp, even, LF).** Laboratory practices and procedures in studying the engineering properties of soil. Instrumentation testing procedures, data collection, analysis, interpretation and reporting is stressed. Three hours lab. Prerequisite: Concurrent enrollment in CET 360.
- CET 365 TRANSPORTATION ENGINEERING (3).** A study of the design, development, regulation, and interrelation of modern highways, urban transportation systems, rail, air, water, and pipeline transportation systems. Three hours lecture. Prerequisite: CET 212.
- CET 401 REINFORCED CONCRETE (4, sp, odd).** The theory and design of reinforced concrete slabs, beams, columns, walls and footing, and the design, proportioning, inspection and pouring of concrete mixes. Four hours lecture. Prerequisite: CET 304.
- CET 402 STEEL DESIGN (3, sp, odd).** Basic principles of structural steel design. Design of beams, axially loaded members, columns, bolted connections and welding. Three hours lecture. Prerequisite: CET 304.
- CET 410 CONTRACT SPECIFICATIONS (3).** Organization of the construction industry, types of construction contracts, preparation and administration of construction contracts, construction plans and specifications. Three hours lecture. Prerequisite: CET 225.

- CET 414 BUILDING ENGINEERING SYSTEMS AND DESIGN** (3, fa, odd). Planning and design of building engineering systems. Application of course work to actual job situations, including field trips. This course is designated writing intensive. Three hours lecture. Prerequisite: Upper division standing.

ELECTRONICS TECHNOLOGY

- ET 101 BASIC ELECTRONICS** (3). Study of the fundamentals of electric current flow. Ohm's law, Kirchhoff's laws, power and energy, safety devices, simple series, parallel, and combination resistive and magnetic circuits, power supply, motors, and generators. Two hours lecture and three hours lab.
- ET 104 CIRCUIT ANALYSIS** (3, sp). Study of the network theorems and methods of analysis for resistive, RC, RL, and RCL circuits, resonant and non-resonant AC circuits, transformers, AC power, phasor, and polyphase systems. Three hours lecture. Prerequisites: MAT 113. Corequisite: ET 104L.
- ET 104L CIRCUIT ANALYSIS LAB** (2, sp). Required lab to be taken concurrently with ET 104. Hands-on exercises working with both AC and DC circuits. Corequisite: ET 104.
- ET 211 DIGITAL DESIGN** (3, LF). Study of the number systems, logic gates, Boolean Algebra, Simplification of Boolean function, decoders, encoders, code converters, multiplexers, de-multiplexers, counters, memory devices and adders. Two hours lecture and two hours lab. Prerequisite: CS 101.

GENERAL TECHNOLOGY

- GT 131 ENERGY INDUSTRY FUNDAMENTALS I** (4). Introduction to fundamentals of the energy industry, with particular focus on the scientific principles behind energy sources, hazards, generation, transmission, and storage. Laboratory component is integrated into activity-based classes. Prerequisite: MAT 111 or permission of instructor.
- GT 132 ENERGY INDUSTRY FUNDAMENTALS II** (3). Continuation of GT 131. Upon successful completion of course, students will be eligible to take an exam to earn an industry-recognized, ANSI-accredited certification in Energy Industry Fundamentals. Prerequisite: GT 131 with a grade of "C" or better.

CRIMINAL JUSTICE ADMINISTRATION

Assistant Professors:

Herrington, Melvin

Kowaluk, Gary

Steenbergen, Joseph

Mission

The mission of the Department of Social and Behavioral Sciences is to provide excellent educational opportunities for a diverse student population in the context of an open enrollment institution. The Department provides student-centered learning in a nurturing environment, integrating teaching, research, and service with practical real- world application. The Department offers relevant, high quality undergraduate and select graduate programs that prepare students for careers and lifelong learning.

Degrees Offered

Bachelor of Science in Criminal Justice Administration

Associate of Arts in Criminal Justice Administration.

Objectives

Students who successfully complete the degree programs in Criminal Justice Administration will:

1. Demonstrate a general knowledge of the areas of Criminal Justice (law enforcement, courts, corrections, probation and parole, juvenile delinquency, and criminal justice research methods).
2. Demonstrate an understanding of the administration of the attendant problems or issue of Criminal Justice agencies.
3. Demonstrate a functional grasp of the theories, concepts, and practices that are unique to the Criminal Justice profession.

Assessment Program

The faculty members of the Criminal Justice program are actively engaged in student outcome assessments as a means of attaining the area's academic objectives and the University's Mission. Faculty utilize a wide variety of assignments and examinations in their courses to assess student critical thinking, oral and written communication skills, and pertinent knowledge acquisition and integration. All students must complete the ETS major field examination.

Required Courses

Major: B.S. in Criminal Justice Administration

A minimum grade of “C” in CJ 111, CJ 204, CJ 208, CJ 320, CJ 340, CJ 345, CJ 351, CJ 390, CJ 411, CJ 448, CJ 475, CJ 485, MAT 117; 15 elective hours from any other CJ, or SOC 405, SOC 406, SOC 413.

It is *strongly recommended* that all Criminal Justice majors consider attaining a minor in a separate field of interest to accompany their Criminal Justice degree.

CJA majors are required to successfully complete MAT-117 as a prerequisite for CJ-485; therefore, students should take MAT-117 as the Mathematics Skills course required in the General Education requirements.

Major: A.A. in Criminal Justice Administration

A minimum grade of "C" in CJ 111, CJ 204, CJ 208, CJ 320, CJ 340, CJ 345, CJ 351, CJ 411 and CJ 475. Additionally, the AA degree requires the completion of a modified list of General Education Courses (see bulletin for details)

Minor: Criminal Justice Administration

A minimum grade of "C" in CJ 351, and 15 additional hours of criminal justice, law enforcement or corrections of which 9 hours must be 300-400 level.

Course Descriptions

Listed courses may not be taught every semester or every year. The department head and advisors have information about projected course offerings for each semester/year.

Core Courses Requirements

Some prerequisites are required; may be taken in any order.

- | | |
|---------------|---|
| CJ 111 | INTRODUCTION TO CRIMINAL JUSTICE SYSTEM (3, fa).
Survey of philosophies, operations and interrelationships among various components of the criminal justice system in the United States and abroad. |
| CJ 204 | INTRODUCTION TO POLICING PRACTICES (3, sp).
History and philosophy of law enforcement; functions and responsibilities of law enforcement, peace keeping, and crime prevention entities. |

- CJ 208** **INTRODUCTION TO CORRECTIONS PRACTICES.** (3, sp). Explores the correctional process; historical development and theoretical foundations; as well as the development of contemporary philosophies and practices.
- CJ 320** **CRIMINAL PROCEDURE** (3, sp). Criminal law and procedures, legal process, constitutional limitations, legal restraints, and jurisdictional problems. This course is designated as Writing Intensive (For BLS purposes, course may be used as the CAPSTONE course).
- CJ 340** **THE AMERICAN COURT SYSTEM** (3, sp). Development of criminal and civil court, roles of judge, prosecutor, jury, and defense attorney; trial process; victim and other contemporary issues.
- CJ 345** **CONTEMPORARY ISSUES IN CRIMINAL JUSTICE** (3, sp). This course examines issues in contemporary policing in America. Students will apply critical thinking and research skills and prepare research papers on contemporary policing topics.
- CJ 351** **ETHNICITY IN CRIMINAL JUSTICE** (3, fa). Examines the role of race and ethnicity in the criminal justice system. Prerequisites: 12 hours of Criminal Justice (CJ).
- CJ 390** **THEORIES OF CRIME** (3, fa). Study of criminal punishment and behavior through contemporary theories; study of emerging crimes including; terrorism, cybercrimes and violence against women.
- CJ 410** **ADMINISTRATION OF JUSTICE** (3, sp). Regulations, procedures, management, practice, and philosophy of police and correctional administrations.
- CJ 411** **ETHICS IN CRIMINAL JUSTICE** (3, sp). Examination of the history of ethics and the approaches to moral decision making in criminal justice agencies. Issues explored include: morality, ethical decisions, corruption, police in an unethical society, ethics and corrections, judicial ethics, professional codes of ethic, and investigative methods. Prerequisites: 12 hours of Criminal Justice (CJ).
- CJ 475** **CRIMINAL LAW** (3, fa). Legal definition of crime and defense; substantive criminal law, historical foundations; legal briefs and case study approach employed. Prerequisite: 9 hours of Criminal Justice coursework; and CJ 320.

- CJ 485** **CRIMINAL JUSTICE RESEARCH METHODS/STATISTICS** (3, fa). Students practice the fundamental principles of research, including empiricism, objectivity, and research design. They are then taught how to apply those principles to the field of Criminal Justice by designing a research project which collects and analyzes data and presents research results in an APA format. Introduction to bibliography, scholarly methods, and critical evaluation of criminal justice research are also explored. Prerequisites: MAT 117, CJ 111, CJ 204, and CJ 208.

Elective Courses

- CJ 420** **CRIMINAL EVIDENCE AND PROCEDURES** (3, fa). Exploration of due process issues including: law of arrest, searches and seizures, rules of evidence, interrogations and confessions, and current developments.
- CJ 421** **CRIME ANALYSIS** (3, sp). Explores contemporary crime analysis, criminal intelligence analysis, and geographic profiling, and merges analytical investigative techniques using software e.g., Analyst Notebook™. Prerequisites: CS 103 or higher and 9 hours of Criminal Justice (CJ) coursework.
- CJ 447** **JUVENILE JUSTICE** (3, fa). Emerging Issues in the field of criminal justice. This course traces historical development of juvenile delinquencies. Emphasis placed on juvenile justice system.
- CJ 450** **INTERNSHIP IN LAW ENFORCEMENT** (3, fa, sp, su). Field internship in a law enforcement agency of no less than 40 hours per week for four weeks or 20 hours per week for 8 weeks. Can be repeated once. Co- requisite: CJ 451. Prerequisite: Student must be a junior or senior in good standing.
- CJ 451** **SEMINAR IN LAW ENFORCEMENT** (3, fa, sp, su). Required seminar during which various aspects specific to the internship, duties, job requirements, application process, and expectations are discussed in a classroom setting. Can be repeated once. Above cannot be taken separately. Co-requisite: CJ 450. Prerequisite: Student must be a junior or senior in good standing.
- CJ 460** **PROFESSIONAL SEMINAR** (6, sp, su). For the full-time criminal justice professional only; equivalent experience as gained in the internship with journals, papers and regular seminar.

- CJ 462** **CRIMINAL JUSTICE PRACTICUM** (6, sp, su). Field internship in a criminal justice agency of no less than 160 hours in the semester enrolled. Activity journal and experience paper required. Can be repeated once. Prerequisites: 12 hours of Criminal Justice (CJ), Law Enforcement (LE), or Corrections (COR) coursework.
- CJ 465** **PROBATION and COMMUNITY CORRECTION** (3, sp). Role of Probation and parole in correctional process and relationship with other elements of the community, faith, privatization and other alternatives.
- CJ 480** **FORENSICS** (3, fa). Crime scene investigation and management; evidence collection and evaluation techniques; crime scene sketching; crime scene reconstruction; case analysis, documentation and report writing. Prerequisite: 9 hours of Criminal Justice Coursework, and CJ 204 or CJ 208.
- CJ 490/
492** **DIRECTED STUDY** (1-3). Independent research. Prerequisite: Consent of instructor and department head.
- CJ 495/
498** **SPECIAL SUBJECTS** (1-3). Subject relevant to the field of criminal justice, criminal law, courts, or corrections. Subject to be listed in course schedule. May enroll again as subject changes. Prerequisites: See course schedule.
- SOC 405** **CRIMINOLOGY** (3, fa). survey of classical and contemporary theories of criminal behavior, sources of crime, type of crime, including (but not limited to) property crime, violent crime, computer crime, corporate crime and political crime. Prerequisites: SA 201 or SA 151H or SA 202 or SOC 301.
- SOC 406** **JUVENILE DELINQUENCY** (3, sp). A survey of classical and contemporary theory of delinquent behavior with special emphasis on youth. This course traces historical development of public and private institutions created to control youth offenders. Special emphasis is placed on the process of becoming delinquent, demographic characteristics of the delinquent and how youth are processed by the juvenile justice system. Prerequisite: SA 201, or SA 151H, or SA 202, or SOC 301.
- SOC 413** **DEVIANCE AND SOCIAL CONTROL** (3, sp even). Overview of the theories of deviant behavior and the social classification of deviance as a means of social control. Includes study of wide range of deviant behavior, including elite deviance and mental illness.

HISTORY AND GEOGRAPHY

Professors:

Bardot, Michael
Jungmeyer, Roger
Gubbels, Thomas

Associate Professor:

Scovill, Bruce

Mission

The mission of the Department of Social and Behavioral Sciences is to provide excellent educational opportunities for a diverse student population in the context of an open enrollment institution. The Department provides student-centered learning in a nurturing environment, integrating teaching, research, and service with practical real- world application. The Department offers relevant, high quality undergraduate and select graduate programs that prepare students for careers and lifelong learning.

Degrees Offered

Bachelor of Arts in History
Bachelor of Science in History

Objectives

Students successfully completing the degree in History will:

1. demonstrate competence as critical thinkers, readers, writers and researchers.
2. be acquainted with historic development from the ancient times to the present.
3. be able to use historical method and develop a familiarity with a variety of interpretive paradigms and their use in conceptualizing the historical process.
4. be able to utilize existing technology and educational resources available in an information age.

Assessment Program

The faculty of the History program is actively engaged in student outcomes assessment as a means of attaining the area's academic objectives and the University's Mission. Faculty utilizes a variety of assignments and examinations in courses to assess student critical thinking, written communication skills, and knowledge acquisition and integration. All students will take the ACAT.

Computer Skills Requirement

Upon completion of the History degree programs at Lincoln University, students should have gained basic computer skills and knowledge of various software programs. Students will have the opportunity to gain the necessary computer knowledge and skills through successful completion of HIS 385 Historical Methods and the use of the University course management system.

Required Courses

Major: B.A. in History

The BA in History requires 36 hours in the content area. The 36 hours must include, with a minimum grade of “C” the following courses: HIS 101, HIS 102, HIS 205, HIS 206, HIS 385, and HIS 499 plus 18 hours of upper division (300-400) HIS elective courses. The Bachelor of Arts major must complete 12 hours of a foreign language.

Major: B.S. in History

The BS in History requires 35 hours in the content area. The 36 hours must include, with a minimum grade of “C” the following courses: HIS 101, HIS 102, HIS 205, HIS 206, HIS 385, and HIS 499 plus 18 hours of upper division (300-400 level) HIS elective courses. The Bachelor of Science degree in History requires a minor with a minimum of 18 hours or an additional major.

Minor: History

The minor in History requires a minimum grade of "C" in 18 hours including HIS 101, HIS 102, HIS 205, HIS 206, and 6 upper division hours of History.

Course Descriptions

Listed courses may not be taught every semester or every year. The department head and advisors have information about projected course offerings for a semester/year.

Group I: General Education

- | | |
|-----------------|--|
| HIS 101 | WORLD CIVILIZATION I (3, fa, sp). Survey of major Western and non- Western civilizations from earliest times to 1650. |
| HIS 102 | WORLD CIVILIZATION II (3,fa,sp). Survey of major Western and non- Western civilizations from 1650 to the present. |
| HIS 151H | HONORS WORLD CIVILIZATION I (3, fa). A survey of major world civilizations including political, social, religious and intellectual changes to 1650. Discussion, reading, and writing component emphasized in this course. |
| HIS 152H | HONORS WORLD CIVILIZATION II (3, sp). A survey of major world civilizations emphasizing political, intellectual and social changes since 1650. Discussion, reading, and writing component emphasized in this course. |
| HIS 175 | SPECIAL TOPICS (1-5). Topic to be listed in course schedule. |

May re-enroll as topic changes. May not be used as a general education requirement.

HIS 203 AFRICAN AMERICAN HISTORY (3). Survey of the history of people of African descent from ancient Africa to the present.

HIS 205 UNITED STATES HISTORY I (3, fa, sp). Survey of political, economic, and social development of the United States to 1877 including the development of the Missouri and U.S. Constitutions.

HIS 206 UNITED STATES HISTORY II (3, fa sp). Survey of political, economic, and social development of the United States since 1877 including changes in the Missouri and U.S. Constitutions.

Group II: Upper Division Service

Prerequisite: HIS 205, HIS 206, PSC 203 or PSC 204

HIS 385 HISTORICAL METHODS (3, sp). Introduction to bibliography, scholarly methods, and the critical evaluation of historical research. This course is designated writing intensive. Prerequisite: 12 hours of history.

HIS 401 PROSTITUTES, POPULISTS, AND ORDINARY FOLK (3, sp). Examination of the history of Missouri through the eyes and experiences of ordinary everyday citizens. Special attention will be paid to traditionally overlooked groups in Missouri history, including women, African-Americans, Native Americans, immigrants, the rural and urban poor, and other minority groups. By the end of this course, students will display a greater appreciation for and understanding of the “many acts of the small” that shaped the history and evolution of Missouri from the pre-statehood era up to the Present. Students in the class will also have the opportunity to work with primary sources related to Missouri’s “other” history, to prepare research papers related to Missouri’s social history, and to present their research to a professional audience at the Annual Missouri State Conference of History.

HIS 402 ETHNIC HISTORY (3) Survey of the national experiences of various immigrant and racial ethnic groups in the U.S. from colonial era to the present.

HIS 405 ECONOMIC HISTORY OF THE UNITED STATES (3, fa). Survey of American economic life from 1492 to the present.

HIS 459 HISTORY OF AFRICA (3). African civilization from traditional through modern times.

HIS 476 ORAL HISTORY (3). A hands-on methodology course for students doing the minor in Public History and those interested in conducting historical research in the 20th and 21st century.

HIS 477 WOMEN IN AMERICA (3). Changing status of women in the U.S. from 1607 to the present.

Group III: Upper Division American

Prerequisite: HIS 205, HIS 206, PSC 203 or PSC 204

HIS 403 BLACKS IN AMERICA (3). Black people in the U.S. from the beginnings in Africa through the 21st century.

HIS 404 HISTORY OF THE SOUTH (3). Political, economic, and social development of the Southern United States pre-colonial to the present. Prerequisite: HIS 205 or 206 or PSC 203 or 204.

HIS 410 “WAR IS HELL”: AMERICAN WAY OF WAR (3,fa). Relationship of American military policy to the political, economic, and social development of the nation.

HIS 421 COLONIAL AMERICA (3, sp, odd). Social, political, economic, and intellectual development of America from the European background to the implementation of the Constitution.

HIS 422 U.S. NATIONAL PERIOD (3). Political, economic, constitutional, and cultural development of the U.S. from 1763 to 1828.

HIS 423 CIVIL WAR AND RECONSTRUCTION (3, sp, odd). Political, economic, and social development of the Southern United States through the Civil War.

HIS 424 20th CENTURY SOCIAL MOVEMENTS: CIVIL RIGHTS, FEMINISM AND BEYOND (3, sp, even). Political, economic, and cultural development of the United States from 1901 to the present; emphasis on the emergence of modern America.

Group IV: Upper Division European/World

Prerequisite: HIS 101, HIS 151H, HIS 102, or HIS 152H.

HIS 431 HISTORY OF CHINA AND JAPAN (3, sp, odd). Political, social, and cultural developments of China and Japan from 1600 to late 20th century.

HIS 432 ISLAM AND THE CHRISTIAN WORLD (3, fa, odd). Political, social and cultural developments of the Islamic and Christian worlds; the intersection of these worlds in the Crusading movement and the impact of this interaction on the world that followed.

HIS 433 CULTURE AND CONFLICT IN THE MODERN MIDDLE EAST

(3, fa odd). Political, social and cultural developments of the Middle East from its origins through the mid-20th century.

- HIS 440** **ANCIENT GODS, ANCIENT ENEMIES** (3, fa, even). This course will explore the development of North African, Greek and Roman civilizations from c. 3000 BC- c. 500 AD. Students can gain an understanding of the political, social, and cultural and economic exchange as found in Black Athena, will be discussed as it relates to the modern scholarly debate. The course will also highlight the key foundational political, social, and cultural relationships between these societies and the modern World.
- HIS 441** **MEDIEVAL EUROPE** (3, sp, odd). Thematic coverage of the history and culture of Europe, 300-1475. Emphasis is on the significance of the political, economic and social changes which took place.
- HIS 442** **CHURCH AND STATE IN A CHANGING WORLD** (3, fa, even). The Reformation, like the Renaissance drew its inspiration from the ancient world. Renaissance humanists and artists sought to imitate and revive classical art and literary forms; In several important ways the Reformation contributed to the shaping of modernity by dividing Christendom into Catholic and Protestant. Thus, the Reformation destroyed the religious unity of Europe, the distinguishing feature of the Middle Ages, and weakened the Church, the chief institution of medieval society. Strengthening monarchs at the expense of church bodies, the Reformation furthered the growth of the modern secular and centralized state. The reformation contributed to the growth of political liberty – a feature of the modern West and advanced the idea of equality.
- HIS 443** **THE SINS OF GREATNESS: LEADERSHIP IN THE 18TH CENTURY** (3). This survey course will examine 4 to 5 famous leaders from around the globe who were considered, in their native language to have been “Great.” From Frederick the Great of Prussia, Radama I of Madagascar to Kamehameha I of Hawaii to Catherine the Great of Russia, students will participate in Project Based Learning doing research and presenting to their peers a great leader of their choosing. Outside readings will include Machiavelli’s The Prince.
- HIS 444** **19TH CENTURY EUROPE** (3). Political, economic, social, and cultural development of Europe to the outbreak of World War I to include nationalism, imperialism, liberalism, and socialism.
- HIS 445** **20TH CENTURY EUROPE** (3, sp, odd). Political, economic, and social developments in Europe from World War I to the present.

- HIS 450 EUROPE 1914 TO PRESENT** (3, sp, odd) Modern Europe from 1914 with emphasis on recent developments; to include the reunification of Germany, and changes in Russia to the present.
- HIS 456 HISTORY OF BRITAIN** (3). History of Britain, from prehistoric times to 1714 AD; students can gain an understanding of the political, social and cultural achievements of the early inhabitants of Britain.
- HIS 457 HISTORY OF MODERN FRANCE** (3). France from the Revolution to the present.
- HIS 458 RISE AND FALL OF COMMUNISM** (3, sp, odd). This course will examine the rise, survival and collapse of the Soviet Communist ideology and those regimes in Russia and Eastern Europe from 1917-1990 and the results to the present. The Russian revolution, civil war and establishment of the Stalinist regime in the Soviet Union will be addressed. Soviet involvement in the Second World War is also covered. The course concludes by addressing détente, the Gorbachev period, collapse of the Soviet Union by the end of 1990 as well as other Communist regimes in the Eastern Europe, the rise of Vladimir Putin in the present day.
- HIS 460 MODERN GERMANY** (3, sp odd). The formation of Modern Germany from 1815 to the present. Emphasis on unification in 1871, German Empire, Weimar Republic, the World Wars, East and West Germany, and Reunification.

Group V: Upper Division Other

- HIS 390/391 DIRECTED TUTORING/ASSISTANT** (3). Supervised tutoring/assistant. Student may enroll in a total of two directed tutoring/assistant courses during career, for a total of no more than six credit hours. Will not count toward the major. Prerequisite: permission of the department.
- HIS 481H HONORS SUMMER MENTORSHIP** (3). Provides students with the opportunity to engage in an individual research or creative project under the close supervision of a faculty mentor. Students work on a project 20 hours per week. Prerequisites: Previous honors coursework with a 3.2 GPA; 3.2 cumulative GPA; junior standing; consent of department; and consent of Honors Committee. To obtain Honors Committee consent, the student must submit an application to that committee.
- HIS 490/492 DIRECTED STUDY** (1-3). Independent research. Prerequisite: Consent of instructor and department.

- HIS 495-498** **SPECIAL SUBJECTS** (1-3). Topic to be listed in course schedule. May enroll again as topic changes. Prerequisite: See course schedule.
- HIS 495H 498H** **SPECIAL SUBJECTS** (1-3). Topic to be listed in course schedule. May enroll again as topic changes. Prerequisite: Honor College Status.
- HIS 499** **GOVERNMENT INTERNSHIP** (3-6). Provides students an opportunity to apply their skills in a work setting. Permission of instructor required.

Geography

- GEO 200** **WORLD GEOGRAPHY** (3). A comprehensive survey of the earth, its natural resources, and conflicts arising there from.
- GEO 301** **ECONOMIC GEOGRAPHY** (3). The geographic location of the principal industries, products, resources, trade, and trade routes of the world.
- GEO 302** **GEOGRAPHY OF NORTH AMERICA** (3). Physical features, plant and animal life, and the effects of sectional environment upon peoples.
- GEO 495/498** **SPECIAL SUBJECTS** (1-3). Topic to be listed in course schedule. May enroll again as topic changes.

POLITICAL SCIENCE

Associate Professor:

Watson, Darius

Assistant Professor:

Safir, Omar

Mission

The mission of the Department of Social and Behavioral Sciences is to provide excellent educational opportunities for a diverse student population in the context of an open enrollment institution. The Department provides student-centered learning in a nurturing environment, integrating teaching, research, and service with practical real- world application. The Department offers relevant, high quality undergraduate and select graduate programs that prepare students for careers and lifelong learning.

Degrees Offered

Bachelor of Arts in Political Science

Bachelor of Science in Political Science

Objectives

Students successfully completing the degree in Political Science will:

1. demonstrate thorough knowledge of state and federal government, and be able to analyze political institutions using methods of Political Science
2. demonstrate critical thinking skills related to Political Science
3. gain entry into post-baccalaureate education and/or into careers

Assessment Program

The faculty of the Political Science program is actively engaged in student outcomes assessment as a means of attaining the area's academic objectives and the University's Mission. Faculty utilizes a wide variety of assignments and examinations in their courses to assess student critical thinking, written communication skills, and pertinent knowledge acquisition and integration. All students will take the ETS Major Field Test.

Computer Skills Requirement

Upon completion of the Political Science program at Lincoln University, students will have gained basic computer skills and knowledge of various software programs. Students will have the opportunity to gain computer knowledge and skills by utilizing electronic correspondence, research and writing, and through broad engagement with the University course management system.

Major: B.A. and B.S. in Political Science

Required Courses

Both the B.A. and the B.S. in Political Science require a minimum grade of “C” in the following courses: PSC 203, PSC 204, PSC 300, PSC 499, HIS 205, HIS 206, PHI 101, and either S/A 201 or ECO 201. A student must also complete 24 hours of PSC electives at the upper division (300-400) level including at least 15 hours at the 400 level. During their final semester before graduation, all majors must take the Senior Exit Exam for Political Science during the Lincoln University assessment week. The Bachelor of Science degree in Political Science requires an 18 hour minor, whereas the Bachelor of Arts degree in Political Science requires 12 hours of foreign language.

Minor: Political Science

The Political Science minor requires 18 hours of PSC courses with a minimum grade of "C" in PSC 203, PSC 204, and PSC 499, plus 9 upper division Political Science electives including not less than 6 hours in 400-level courses.

Minor: Legal Studies

A minimum grade of “C” in BAD 275, BAD 412, CJ 475, PHI 101, PSC 430 and 6 hours of electives taken from the following: BAD 385, CJ 201, CJ 320, CJ 340, LE 420, PAD 463, PHI 304, PSC 420, PSC 460. Twenty-one (21) hours of required courses.

Course Descriptions

Listed courses may not be taught every semester or every year. The department head and advisors have information about projected course offerings for a semester/year.

Group I: General Education

- PSC 175** **SPECIAL TOPICS** (1-5). Topic to be listed in course schedule. May enroll again as topic changes. May not be used as a general education requirement.
- PSC 203** **AMERICAN NATIONAL GOVERNMENT** (3, fa, sp). Origin, development, structure, functions and problems of the national government. Special reference to recent trends and U.S. and Missouri Constitutions.
- PSC 203H** **HONORS AMERICAN NATIONAL GOVERNMENT** (3, sp, even). Origin, development, structure, and functions of the national government with references to recent trends, and U.S. and Missouri Constitutions, using a variety of non-traditional

- teaching methods for advanced learners.
- PSC 204** **AMERICAN STATE AND LOCAL GOVERNMENT** (3, sp).
Constitutions, intergovernmental relationships, structure,
functions, and trends in state and local governmental units.
Special reference to the U.S. and Missouri Constitutions.

Group II: Upper Division Survey Courses

Prerequisite: 3 credit hours of 200 level Political Science or History

- PSC 300** **INTRODUCTION TO POLITICAL SCIENCE** (3, fa). This course introduces students to PSC research and surveys five subfields of the discipline: American Government, Public Policy, Comparative Politics, International Relations, and Political Thought.
- PSC 305** **INTERNATIONAL LAW AND ORGANIZATIONS** (3fa, odd).
This course studies international law and organizations broadly, and the United Nations specifically. It examines issues in modern world politics and prepares students to be a country's representative or diplomat.
- PSC 310** **PRINCIPLES OF PUBLIC ADMINISTRATION** (3, fa, odd). The course centers on public administration with reference to organizational theory and developments in the United States. Cross-listed with PAD 310.
- PSC 315** **INTRODUCTION TO GLOBALIZATION** (3, fa, even). This course examines globalization's role in world politics: its history, causes, characteristics, consequences and its influence on contemporary world politics.
- PSC 320** **CURRENT POLITICAL EVENTS** (3, fa, even). This course focuses upon contemporary affairs in domestic and international political arenas utilizing periodicals and other media.
- PSC 330** **PRACTICAL POLITICS** (3). The course examines patterns of political success at national, state and local levels; electoral and bureaucratic aspects of the governmental system.
- PSC 340** **INTRODUCTION TO PUBLIC POLICY** (3, fa, odd). This course focuses on governmental processes that determine public policy outcomes and how those processes can be influenced by entities outside of government.
- PSC 350** **U.S. ETHNIC AND RACIAL POLITICS** (3, sp, even). This course examines the impact of minorities on American political life and the policies of particular relevance to minority populations.

- PSC 360** **MEDIA AND PUBLIC OPINION** (3, sp, odd). Analytical and practical study of media's influence on public opinion and how various participants in the political process utilize the media to shape public opinion.
- PSC 370** **SOCIAL WELFARE POLICY** (3, sp, even). The course provides an examination of major social policy developments in United States.
- PSC 380** **AFRICAN POLITICS** (3, sp, odd). This course introduces the political systems of African countries. It focuses on Africa's pre-colonial and colonial political history, decolonization and independence politics and African countries in modern world politics.

Group III: Advanced Political Science

Prerequisite: 3 credit hours of 200 level Political Science or History

- PSC 400** **AMERICAN FOREIGN POLICY** (3, sp, odd). This course explores the history and patterns of America's involvement in world politics. It provides an introduction to U.S. foreign policy making, national security strategy, trade- and-aid, and diplomacy. This course is designated writing intensive.
- PSC 410** **THE PRESIDENT AND CONGRESS** (3, sp, even). National executive and legislative institutions, roles, structures, processes, problems, and their interrelationships.
- PSC 420** **PARTY POLITICS** (3, fa, even). Roles and processes of participative organizations, opinion formation, voting, and other participative behavior.
- PSC 430** **CONSTITUTIONAL LAW** (3, fa, odd). American constitutional principles, problems, and trends regarding governmental powers and civil liberties is addressed in this course.
- PSC 440** **COMPARATIVE POLITICS** (3, fa, odd). Theoretical, analytical, and institutional concepts applied to the study of selected non-American nations.
- PSC 450** **POLITICAL THOUGHT** (3). Selected representative theorists in the development of Western political philosophy. This course is designated writing intensive.
- PSC 460** **INTERNATIONAL RELATIONS** (3, sp, even). World politics, institutions, and concepts including power, resources, conflict resolution, and international law.

- PSC 470** **POLITICS AND ENVIRONMENTAL POLICY** (3, sp, odd). Study of major aspects of environmental policy and the political forces that shape environmental policy outcomes. Cross-listed with ENV 410.
- PSC 480** **CIVIL RIGHTS, CIVIL LIBERTIES** (3, fa, even). This course analyzes the evolution of U.S. civil rights and civil liberties through court decisions and public policy.
- PSC 493** **MODEL UNITED NATIONS** (1-3). This course is designed to provide an introduction to the United Nations organization and an understanding of international diplomacy. It will incorporate current events, international law and procedures of diplomacy. The course will prepare students for a national or regional conference.

Group IV: Political Science Special

- PSC 490H** **HONORS SENIOR THESIS** (3). Directed research and writing on a specified and approved topic in the student's major area of study. Completed thesis must be approved by Department Head and/or Honors Program Director to receive credit.
- PSC 490/492** **DIRECTED STUDY** (1-3). Independent research. Prerequisite: Consent of instructor and department chair.
- PSC 495/498** **SPECIAL SUBJECTS** (1-3). Topic to be listed in course schedule. May enroll again as topic changes.
- PSC 499** **INTERNSHIP** (3-6). Internships in legislative or administrative offices. Junior status and consent of instructor is necessary for enrollment.

PSYCHOLOGY

Professors:

Aruguete, Mara
DeBord, Kurt
Ghinescu, Rodica
Homann, Gary

Associate Professor:

Johnson, Walter

Mission

The Psychology faculty of Lincoln University are committed to contributing to the understanding of behavior through scientific research, application of research-derived knowledge to problems of contemporary life, and development of skills that enable students to compete successfully, whether their plans include immediate employment or graduate school. Ethical considerations inform all of these activities.

Degrees Offered

Bachelor of Arts in Psychology
Bachelor of Science in Psychology

Objectives

Students who successfully complete the degree program in Psychology should demonstrate the following:

1. the ability to critically analyze psychological information employing the logic and methods of science,
2. familiarity with the basic principles and theories of psychology as supported by the current state of psychological science,
3. the ability to apply psychological knowledge to problems of contemporary life, and
4. reading and writing skills necessary for professional communication.

Assessment Program

The Psychology program is actively engaged in student outcomes assessment as a means of attaining the area's academic objectives and the University's Mission. Faculty utilize a wide variety of assignments and examinations in their courses to assess student critical thinking, written communication skills, and pertinent knowledge acquisition and integration. All Psychology majors will take the ETS major field exit exam.

Required Courses

Major: B.S. or B.A. in Psychology

Both the B.S. and B.A. in Psychology require a minimum grade of "C" in PSY 101, PSY 102, PSY 207, PSY 208, PSY 209L, PSY 300, PSY 303, PSY 400, PSY 404, PSY 475 and 9 hours of PSY electives at the upper division (300-400) level. In addition, a "C" or better in MAT 117 is required for the major and is a prerequisite for PSY 207.

During their final semester before graduation, all majors must take the Senior Exit Exam for Psychology. Students desiring the Bachelor of Arts degree must also complete 12 hours of a foreign language.

Minor: A minimum grade of "C" in 18 credit hours of psychology (PSY) classes, six hours of which must be at the upper division (300-400) level.

Course Descriptions

Listed courses may not be taught every semester or every year. The department head and advisors have information about projected course offerings for each semester/year.

- PSY 101 GENERAL PSYCHOLOGY** (3, fa, sp). An introduction to psychology as the science of affect, behavior, and cognition focusing on the methods, concepts, and terminology of the field.
- PSY 102 ADVANCED GENERAL PSYCHOLOGY** (3, fa, sp). An introduction to the thought processes and skills used by today's scientific psychologists. Course themes include thinking scientifically, summarizing and presenting research evidence, and writing in APA style. Prerequisites: ENG 101 and PSY 101.
- PSY 151H HONORS GENERAL PSYCHOLOGY** (3). An introduction to the field of psychology for Honors Program students. Special emphasis is given to the application of psychological research methods in formulating and answering questions about affect, behavior, and cognition. Serves as prerequisite to all PSY courses requiring PSY 101.
- PSY 175 SPECIAL TOPICS** (1-5). Topic to be listed in course schedule. May re- enroll as topic changes.
- PSY 202 PSYCHOLOGY OF PERSONAL ADJUSTMENT** (3). A course concerned with the practical application of psychological principles to everyday life. Topics included are influences on adjustment and growth, adjustment and growth in interpersonal relationships, and stress and life management.
- PSY 207 ADVANCED PSYCHOLOGICAL STATISTICS** (3, sp). An examination of the fundamentals of inferential statistics and their application to psychological research. Prerequisite: MAT 117 with a minimum grade of "C."
- PSY 208 EXPERIMENTAL PSYCHOLOGY** (3, fa, sp). An introduction to research design in behavioral science. Emphasis is placed on the critical analysis of research and research designs.

- PSY 209L EXPERIMENTAL PSYCHOLOGY LAB** (1, fa, sp). A critical analysis of research and research designs. Students will complete research projects and produce research reports. Significant writing experiences are included. Prerequisite: Concurrent enrollment or prior completion of PSY 208.
- PSY 300 PSYCHOLOGY OF LEARNING** (3, sp). An examination of the principles and theories of the experimental analysis of the learning process. Significant writing experiences are included. Prerequisites: Nine hours of PSY including PSY 101.
- PSY 303 SOCIAL PSYCHOLOGY** (3, fa). An analysis of current theory and research relating to social cognition and behavior. Topics include self- perception, social influence, attitude change, aggression, altruism, and attraction. Prerequisite: PSY 101.
- PSY 304 PERSONALITY THEORIES** (3). A course covering the theory, structure, development, and dynamics of personality. Prerequisite: PSY 101.
- PSY 308 DEVELOPMENTAL PSYCHOLOGY** (3, fa, sp). A life-span course on human development. Emphasis is on physical, psychological, and social development from conception to death. Prerequisite: PSY 101.
- PSY 400 PHYSIOLOGICAL PSYCHOLOGY** (3, fa). An analysis of the role of the nervous and endocrine systems in the control of behavior. Prerequisites: Nine hours of PSY including PSY 101.
- PSY 404 PSYCHOLOGICAL DISORDERS** (3, fa). An examination of the description, causes, and treatment of abnormal behavior. Significant writing experiences are included. Prerequisites: Nine hours of Psychology including PSY 101.
- PSY 406 SPECIAL TOPICS IN PSYCHOLOGY** (3). The study of any psychological topic not otherwise included in the curriculum. Prerequisites: Nine hours of PSY including PSY 101.
- PSY 407 PSYCHOLOGY AND SOCIOLOGY OF SPORT AND EXERCISE** (3). Course examines psychological and sociological factors affecting sport performance and exercise adherence. Theories, techniques, and applications for athletes, coaches, and trainers are emphasized. Prerequisite: Three hours of PSY.
- PSY 410 ORGANIZATIONAL PSYCHOLOGY** (3). A course covering the application of psychological principles to the work setting. Prerequisite: PSY 101.

- PSY 412** **DIRECTED READINGS** (1-3, fa, sp). Supervised research in an area of psychology of mutual interest to student and instructor. Instructor's permission required.
- PSY 413*** **RESEARCH ASSISTANT** (1-3, fa, sp). Supervised research in psychology. Instructor's permission required.
- PSY 414*** **TEACHING ASSISTANT** (1-3, fa, sp). Supervised teaching experience at the college level. Instructor's permission required.
- PSY 417** **PSYCHOTHERAPIES** (3, sp odd). Introduction to the practice of psychotherapy; the significance of ethics, multiculturalism, individual practice skills, and theories as they apply to therapy. Prerequisite: PSY 101.
- PSY 429** **PSYCHOLOGICAL TESTING** (3, sp). An introduction to psychological testing and measurement. Emphasis placed on the theory, development, and use of tests of mental ability (including intelligence), and personality (including anxiety and stress). Considers ethical and legal issues in testing. Prerequisites: Nine hours of PSY.
- PSY 475** **HISTORY AND SYSTEMS OF PSYCHOLOGY** (3, sp). An examination of the origins and development of contemporary scientific psychology. Significant writing experiences are included. Prerequisites: Nine hours of PSY including PSY 101.
- PSY 499*** **PRACTICUM IN PSYCHOLOGY**. (3-9, sp). Supervised work experience in any psychological specialty area. Students are assigned to a mental health, rehabilitation, industrial or other relevant work setting and receive dual supervision from a psychology faculty member and an official from the agency to which the student is assigned. Prerequisites: Psychology major, junior/senior standing, at least 18 hours in PSY, and permission of the instructor.

* A maximum of 3 hours from PSY 412, 413, 414, and 499 may be counted toward psychology degree requirements. These courses may be repeated for a total of 9 semester hours toward the 121 semester hours of academic credit required for graduation.

SOCIAL WORK

Program Director:

Jan C. Kircher

Assistant Professors:

Bell, Amber

Reynolds, Andrea

Mission

The Lincoln University Social Work Program prepares diverse undergraduate students for generalist social work practice. The program is committed to providing students with the knowledge, values, and skills needed to intervene, empower, and promote human rights and advocate for social, economic, and environmental justice in a global world emphasizing diversity-informed practice.

Program Goals

The Lincoln University Social Work Program:

- Prepares students to engage in generalist social work practice on the micro, macro, and mezzo levels
- Provides curriculum that prepares students to promote diversity through ethical social work practice
- Provides curriculum that prepares students to advocate for social change and social justice through evidence-based and critically – informed practice

Degree Offered

Bachelor of Science with a major in Social Work

Objectives

The Lincoln University Social Work Program utilizes a competency-based approach that incorporates and applies practice behaviors to prepare graduates for generalist social work practice by demonstrating mastery of the competencies. These competencies and practice behaviors outlined by the Council on Social Work Education are integrated and measured throughout the program's curriculum. Upon completion of the program students will be able to:

1. Demonstrate ethical and professional behavior
2. Engage diversity and difference in practice
3. Advance human rights and social, economic, and environmental justice
4. Engage in practice-informed research and research-informed practice
5. Engage in policy practice
6. Engage with individuals, families, groups, organizations, and communities
7. Assess individuals, families, groups, organizations, and communities

Course Descriptions:

Listed courses may not be taught every semester. The department head, program director, instructors, and advisors have information about projected course offerings for a semester/year.

- SW 150 Introduction to Social Work (3)** This course provides an introduction to the social work profession, with an emphasis on the historical development of the profession, social welfare policy and programs, understanding of resources and services, fields of practice, and intervention methods used by social workers. This course emphasizes the importance of social justice and advocacy in the social work profession.
- SW 250 Human Behavior in the Social Environment I (3, FA).** Using a person in the environment perspective, this course focuses on theories of human behavior over the life span and on the development of individuals and families in the context of biological, social, psychological, spiritual, and cultural components. Pre-requisite SW 150.
- SW 251 Human Behavior in the Social Environment II (3, SP)** Using a person in the environment perspective, this course focuses on theories that investigate and explain human behavior in the larger ecological and macro contexts. Theories, models, and frameworks evaluating group dynamics, organizational behavior, and communities will be examined. Prerequisites: SW 150 Introduction to Social Work
- SW 301 Social Welfare Policy (3, SP).** This course engages student in the history and role of U.S. political, economic, and social ideologies that influence social welfare policies and the impact that social policy has on the social work profession. This course examines how the political process influences the identification of social problems and how social welfare policy is used to address social concerns in the United States and globally. Students will develop social justice advocacy skills needed for social workers to influence and advocate for policy development and change on the organizational, community, legislative, and judicial levels. This course is writing intensive. Pre-requisite SW 150.
- SW 310 Intercultural Communication In Social Work (3, FA)** This course is designed to help students develop basic interviewing skills and techniques in the area of social work. This course will provide foundational skills in interviewing so that students can work effectively with individuals, families, and groups from diverse backgrounds. Different techniques and theoretical principles of interviewing will be investigated. This course requires service-learning hours. Prerequisites: SW 150 Introduction to Social Work and SW 250 HBSE

- SW 325 Diversity Informed Social Work Practice (3, FA).** This course introduces students to a wide range of diverse populations and issues in the United States and globally. It is designed to increase student awareness, knowledge, and understanding of diversity, human rights, social and economic justice and diversity informed practice. The course examines the effects of oppression, power, and privilege in society and how these influence social and economic justice and service delivery at the micro, mezzo, and macro levels. Pre-requisites SW 150, SW 250, SW 251.
- SW 350 Social Work Research Methods (3, SP).** This course examines the various methods of social research, including sampling, data collection, analysis, and focuses on the application of the social research skills needed to practice with individuals, groups, organizations, and communities. Pre-requisites SW 150, SW 250, SW 251.
- SW 401 Generalist Practice with Individuals (3, SP).** This practice course is designed to increase student competency in generalist social work practice with an emphasis on understanding the basic theories of social work intervention and problem solving with individuals. The principles and skills for effective case management are studied and applied. Students will critically examine generalist social work practice with individuals including assessment, engagement, crisis intervention, evaluation, and ethical practice. Pre-requisites SW 150, SW 250, SW 251, SW 301, SW 310, SW 325. Admission to the Social Work Major.
- SW 402 Generalist Practice with Groups (3, FA).** This practice course examines the theories and knowledge of group work focusing on competency and skill building applicable to a broad range of group activities and group dynamics. Students will critically examine group processes including planning, assessment, facilitation, leadership, evaluation, and ethics needed for diversity informed group practice. Pre-requisites SW 150, SW 250, SW 251, SW 301, SW 310, SW 325. Admission to the Social Work Major.
- SW 406 Generalist Practice with Communities and Organizations (3, FA).** This practice course focuses on theories and frameworks for generalist practice in communities and organizations. This course encompasses the knowledge, values, and skills needed for community organizing, leadership development, and engaging in planned change and empowerment in communities and organizations with an emphasis on the impact of globalization on generalist social work practice. Pre-requisites SW 150, SW 250, SW 251, SW 301, SW 310, SW 325. Admission to the Social Work Major.

SW 495 **Special Topics in Social Work** (1-3). This course explores contemporary issues in social work practice and provides students an opportunity to develop knowledge and skills on current social work issues and practice topics. May enroll again as topic changes. Pre-requisites SW 150.

**SW 490/
492** **Directed Readings** (1-3). Independent research. Prerequisite: Consent of instructor and department

SW 499 **Field Practicum Experience** (12, SP). This course requires students to complete 450 hours of a supervised field practicum in an approved agency. Students are also required complete specified assignments designed by the instructor including a capstone project. Students apply and practice social work knowledge, values, and skills learned in the human behavior, policy, social justice, research, ethics, and practice classes and assists students with connecting social work theory with practice. Pre-requisites: Successful completion of all BSW foundation courses. Admission to the Social Work Major. Requires instructor permission.

SOCIOLOGY AND ANTHROPOLOGY

Department of Social and Behavioral Sciences

Professor: Dr. Abdoulaye Bah
Associate Professor: Dr. Sharon Squires
Assistant Professor: Dr. Olivia Hetzler
Assistant Professor: Dr. Christine Boston
Instructor: Ms. Ché Wilson

Mission

The mission of the Sociology and Anthropology programs is to foster a supportive learning environment that emphasizes an understanding of human cultures, belief systems, social institutions, social interactions, & social structures. The curriculum emphasizes the applied and theoretical foundations of both disciplines. Our aim is to foster and develop critical thinking skills, research methods skills, and a deep understanding of how sociologists and anthropologists approach the study of social communities. An additional goal is to develop practical sociological and anthropological perspectives designed to prepare students for careers or graduate professional education.

Degrees Offered

Bachelor of Arts with a major in Sociology (120 Credits Required)
Bachelor of Science with a major in Sociology (120 Credits Required)

Objectives

Students who successfully complete the B.S. and B.A. programs in Sociology will:

1. develop critical thinking skills to analyze how social structures operate and affect society, both nationally and globally,
2. develop research skills with an emphasis on data collection and data analysis,
3. be able to apply social theory to contemporary social issues,
4. be able to discuss the relevance of culture, social change, social interaction, stratification and social structures at the community, national and global levels,
5. develop anthropological research skills, including ethnographic and qualitative research practices,
6. be prepared for effective and responsible participation in professional/graduate study or employment.

Assessment Program

All students will take the ETS Major Field Test to assess their competency within and comprehension of the discipline. Additionally, a variety of assessment measures are used to determine student preparation in compliance with the program's academic objectives and the University's Mission. Assignments, examinations, portfolios, and other assessment tools are used to assess critical thinking, written and oral communication skills, and pertinent knowledge acquisition and integration.

Computer Skills Requirement

Students gain computer skills and analytical software skills through SS 451 Data

Course Descriptions/Course Rotations

Listed courses may not be taught every semester or every year. The department head and advisors have information about projected course offerings for each semester/year.

Group I: Basic

Prerequisites are not required.

- S/A 151H HONORS INTRODUCTION TO SOCIOLOGY.** (3, Fall). This course is designed to introduce honor students to the fundamental theories, methodological approaches and basic principles used in sociology. Detailed study of socialization, social structures, institutions, inequality, and social control, as well as discussion of classic studies in sociology will be engaged. For Honors majors this course serves as a prerequisite to all sociology courses requiring S/A 201.
- S/A 175 SPECIAL TOPICS.** (1-5). Topic to be listed in course schedule. Special topics S/A175 courses will cover a variety of diverse or unique topics. This course may be taken multiple times for credit as the topic changes. This course counts as a lower division sociology elective however special topics S/A175 courses may not be used to fulfill a general education requirement.
- S/A 200 AMERICAN CULTURAL DIVERSITY.** (3, Fall). This course takes both a sociological and an historical approach to understanding cultural variations and constructs, social interaction and change in the United States. This course will expand one's knowledge of the effect of race, gender, sexual orientation, class, age, family structure, religion and geographic location on the public discourse and various policies used to maintain and strengthen society, culture, diversity and inclusion. The unpacking of historical events, policies and legislation as to how they have impacted our current culture will also be discussed. Central to this course will be the application of the structural-functional theory.
- S/A 201 INTRODUCTION TO SOCIOLOGY.** (3). This course is designed to introduce students to the fundamental concepts, theories, methodological approaches and basic principles used in sociology. The course provides the systematic study of social relationships and interactions. Concepts like socialization, social structures, institutions, inequality, social control, gender, ethnicity, the economy and globalization will be examined during this class. This course serves as a prerequisite to all sociology courses and is required for all sociology majors and minors. This course must be completed with a C or better to count for credit.
- S/A 202 INTRODUCTION TO ANTHROPOLOGY.** (3). This course will introduce four major subfields of anthropology: physical anthropology, archaeology, cultural anthropology and anthropological linguistics. The course will explore human origins, habitats, artifacts, and cultural traditions.

Group II: Sociology Service

Prerequisites are not required.

- SOC 301 THE FAMILY.** (3). This course provides an introduction to Marriage and Family studies. The course will explore the structure and formation of contemporary families and look at theories of family development, social problems in the family and the changing gender and social roles in modern families. The course will also explore relationship choices and contemporary issues, including the effect of technology on family life. Theoretical viewpoints, social policies, up-to-date research and self-assessment relationship scales will be included.
- SOC 302 MINORITY RELATIONS.** (3). This course provides an analysis of contemporary minority relations, including ethnic, racial, and gender relations. This course also explores the systems of structured inequality inherent in minority relations in American society. Students will also explore issues such as the social construction of race, discrimination & racism, gender inequality, and the importance of ethnic identities, diversity and multiculturalism.
- SOC 304 SOCIOLOGY OF GENDER.** (3, Spring). Course focuses on gender as a social construct, gender socialization and inequality. Analysis of race, class, age and sexuality in the shaping of gender and gender roles will be explored.
- SOC 303 SOCIAL PROBLEMS.** (3, Fall). This course provides an in-depth overview of social problems in American Society. The course explores the institutional and structural sources of contemporary social problems as well as the ideological construction of social problems and the strategies and solutions posed to resolve them. Issues like drug use, crime, poverty, environmental destruction and differential resource distribution will also be addressed in the course. This course is designated as writing intensive.
- SOC 306 SOCIOLOGY OF BLACK AMERICANS.** (3, Spring). This course examines the experiences of the Black American community in the United States from a Sociological perspective. The course will explore the emergence and evolution of the Afrocentric paradigm, early Black Sociologist, and the methodological approaches to the study of the Black community. Some of the other topics covered in the course are the myths and realities of Black American life, the origins of the concept of race, issues in Black male/female relationships, and deficit sociological research on Blacks as a social group. This is not a comparative community or race relations class; this course focuses specifically on the Black community.

Group III: Advanced Sociology

Prerequisite: S/A 201, or S/A 151H, or S/A 202 or SOC 301

- SOC 401 SOCIAL INEQUALITY** (3, Even Spring). This course examines the social divisions and hierarchal structure of contemporary American society. This course examines the patterns of inequality based on race, ethnicity, gender, and class, status. The role of power and institutions and the

theoretical explanations for stratification will also be discussed.

- SOC 402 MODERN SOCIAL ORGANIZATIONS.** (3, Odd Spring). This course focuses on the analysis of some of the major types of social organization, including groups, networks, and formal organization. Specifically, the course focuses on organizational forms and change, organizational cultures, organization theory and various types of organizational designs.
- SOC 403 COMMUNITY AND SOCIAL CHANGE.** (3). This class will examine the concept of community and survey different types of communities from online societies to rural neighborhoods. The class will also explore the changing nature of the concept of “community” and the sources of social changes in society. Urban, rural and virtual communities, organizational patterns, and sources of change will be examined.
- SOC 404 POPULATION AND ENVIRONMENT.** (3). This course examines population theories; population growth patterns; and the changing composition, distribution and movement of populations globally. The course also analyzes the significance of population changes on the society and its impact on the larger environment.
- SOC 405 CRIMINOLOGY.** (3, Even Fall). Survey of classical and contemporary theories of criminal behavior, sources of crime, and crime typology, including property crime, violent crime, and white-collar crime. Students will also become familiar with making interpretations and inferences from crime data sources.
- SOC 406 JUVENILE DELINQUENCY.** (3, Odd Spring). This course is a survey of classical and contemporary theory of delinquent behavior with special emphasis on youth. This course traces historical development of the juvenile justice system, including public and private institutions created to control juvenile offenders. In this course special emphasis is placed on adjudication, the demographic characteristics of offenders and how youth are processed by the juvenile justice system.
- SOC 408 SOCIOLOGY OF AGING.** (3, Odd Fall). This course provides a systematic presentation of the field of gerontology related to the demographic, health and cultural factors in aging. The class examines social adjustments of individuals in later stages of the life cycle, including family and friendship relationships, social adjustment to the process of aging, and societal reactions to and provisions for persons in later life.
- SOC 409 SOCIOLOGY OF HEALTH AND DISEASE** (3, Even Spring). This course will look at health and disease along the spectrums of age, race and socioeconomic status along with the social construction of health and illness. An emphasis on public health and behavioral health theories for preventive strategies will be utilized in this course.

SOC 412 SOCIOLOGY OF EDUCATION. (3). Analysis of the institutionalization of the learning process, the school and community, the social structure of educational institutions, factors and processes of social change, and contemporary problems in education.

SOC 413 DEVIANCE AND SOCIAL CONTROL. (3, Even Spring). Overview of theories of deviant behavior and the social classification of deviance as a means of social control. Includes the study of a wide range of deviant behavior, including elite deviance and mental illness.

Group IV: Theory, Methods, and Application
Prerequisite: S/A 201 and junior status

SOC 415 CLASSICAL SOCIOLOGICAL THEORY. (3). Survey of major sociological theorists. This course examines the history of social thought, and the emergence and development of sociology as a mode of inquiry for social sciences. This course will compare and contrast major classical theories and focus on the early processes of theory construction. The course will explore classical and contemporary social theorists and examine their contributions to the discipline and the study of society.

SOC 453 CONTEMPORARY SOCIOLOGICAL THEORY. (3, Spring). Survey of 20th century developments in social theory, world systems theory, feminist standpoint theories and critical theory. The course will examine European and American theorists, as well as recent developments in sociological theory construction.

SOC 454 SEMINAR IN SOCIOLOGY. (3, Fall). This is a capstone course that reviews the basic theoretical paradigms, theorists, and practices used in sociology. This course will also provide professional development and career information for future sociological employment. Students who take this class will conduct in-depth analysis of major social issues and they will be challenged to apply sociological theories to current issues in our society. Prerequisite: Junior and senior sociology majors only. This is a writing intensive course.

SOC 490-492 DIRECTED STUDY. (1-3). Independent research. Prerequisite: Consent of instructor required. This course can be taken for 1 to 3 hours credit. See instructor for specific course information.

SOC 495-498 SPECIAL SUBJECTS. (1-3). Special topics courses will cover a variety of diverse or unique topics. This course may be taken multiple times for credit as the topic changes and can count as an upper division sociology elective.

SOC 499 INTERNSHIP. (3, Spring). Opportunity to gain work experience in community agencies and private businesses. Students will complete a 10-13 week internship under the supervision of sociology/anthropology faculty. Consent of instructor required.

SS 451 DATA COLLECTION METHODS. (3, Fall). This course introduces students to the research process (design, methodology), and other techniques of data collection. In this class, students learn coding, survey creation and focus on qualitative and quantitative data collection methods. Prerequisite: 9 hours of Social Science.

SS 452 DATA ANALYSIS METHODS. (3, Odd Spring). This course focuses on the organization and analysis of data using statistical techniques such as measures of central tendencies; t-test, and regression analysis. Upon completion of this course, students will have gained proficiencies in various data analysis software programs, including SPSS, the most widely used statistical software program in the social sciences. Students will be able to access and manage data sets for analysis and integrate data output into presentations and reports. Prerequisite: 9 hours of Social Science; MAT 117.

Group V: Anthropology Service

Prerequisites are not required.

ANT 310 INTRODUCTION TO PHYSICAL ANTHROPOLOGY AND ARCHAEOLOGY. (3, Odd Spring). This course will explore the biological and evolutionary origins of humans, genetics, heredity, living primates, human adaptation, human diversity, archaeological methods, and important Old and New Worlds archaeological sites.

ANT 311 WORLD ETHNOGRAPHY. (3, Even Spring). Comparative ethnography of Western and non-Western societies using a socio-cultural anthropological approach, including an examination of the societies' worldviews, subsistence patterns, ethno-medicine, mating systems, and sustainability.

ANT 315 CULTURE AND LAW. (3, Odd Spring). Exploration of the experiences of law through various agents (police, lawyers, judges, and the public); focusing their perspectives on law and how cultural shifts affect law and law enforcement.

Group VI: Anthropology Advanced

Prerequisite: Three hours in any S/A or ANT course or consent of instructor.

ANT 407 SOCIOCULTURAL CHANGE. (3, Odd Fall). An analysis of the social and cultural changes that have occurred in relation to modernization, intergenerational value shifts, changing religious views, and the emergence of postmodernism in Westernized societies after World War II.

ANT 411 CULTURE AREAS OF THE WORLD. (3, Even Spring). This multimedia course will provide an in-depth analysis of different selected culture areas around the world, which will be explored through ethnographic films. Students will understand the mechanics of ethnographic films and diverse cultural groups.

ANT 451 GENERAL ARCHAEOLOGY. (3, Odd Spring). A study of prehistoric and historic cultural remains that includes fieldwork, laboratory experiences, and dating methods (relative and absolute), using current archaeological methodology.

Group VII: Anthropology: Other

ANT 490-492 DIRECTED STUDY. (1-3). Independent research. Prerequisite: Consent of instructor and department.

ANT 495-498 SPECIAL SUBJECTS. (1-3). Topic to be listed in course schedule. May enroll again as topic changes. Prerequisite. See course schedule.

ANT 407 SOCIOCULTURAL CHANGE (3, fa, odd). An analysis of the social and cultural changes that have occurred in relation to modernization, intergenerational value shifts, changing religious views, and the emergence of postmodernism in Westernized societies after World War II.

ANT 411 CULTURE AREAS OF THE WORLD (3, sp, even). This multimedia course will provide an in-depth analysis of different selected culture areas each semester: Mesoamerica, Oceania, Western Asia, Aboriginal North America, West Africa or other cultures of choice.

ANT 451 GENERAL ARCHAEOLOGY (3, sp, odd). A study of prehistoric and historic cultural remains that includes fieldwork, laboratory experiences and dating methods (relative and absolute), using current archaeological methodology.

Group VII: Anthropology: Other

ANT 490/492 DIRECTED STUDY (1-3). Independent research. Prerequisite: Consent of instructor and department.

ANT 495/498 SPECIAL SUBJECTS (1-3). Topic to be listed in course schedule. May enroll again as topic changes. Prerequisite. See course schedule.

INTERDISCIPLINARY STUDIES

AFRICAN AMERICAN STUDIES

Objectives

Students completing the minor in African American Studies will have an understanding of the history, literature, art and music of African Americans. Students will also develop an awareness of the global African American experience through the cultural study of African, Caribbean and other populations. The minor in African American Studies is an interdisciplinary course of study which explores the history and culture of African Americans and Blacks throughout the Diaspora.

Minor in African American Studies

The minor in African American Studies requires 21 hours with a minimum grade of "C."

Required Courses

AAS 200, ART 205, MUS 205, ENG 416, and HIS 203 or HIS 403. The remaining six hours may be elected from the following courses: ENG 473H, HIS 402, HIS 459, JOU 475, PHI 208, PSC 350, SOC 302, SOC 306, BAD 385, EDU 260, AAS 400H.

Course Descriptions

AAS 200 INTRODUCTION TO AFRICAN AMERICAN STUDIES. (3). An introduction to theories regarding African roots of Western civilization, and the cultural and philosophical legacy of the *Diaspora*.

AAS 400H HONORS SERVICE LEARNING. (1-3, fa, sp, su). Provides students with the opportunity to engage in a directed service, research or creative project of benefit to the University under the close supervision of a faculty mentor or a campus administrator. Students work on approved project 5-10 hours per week. Student may re-enroll for a total of 6 credit hours. Prerequisite: Admission to the Honors Program and previous honors coursework with a 3.2 GPA; 3.2 cumulative GPA; junior standing; permission of instructor and Department Head.

ART 205 AFRICAN AMERICAN ART HISTORY. (3). A survey of African American art and artists from colonial period to the present. The course will consider the social, political, cultural, and artistic development of the artists.

ENG 416 AFRICAN AMERICAN LITERATURE. (3). Readings in the literary interpretation of the African American authors, viewed within a comprehensive, historical context. Prerequisite: ENG 307.

HIS 203 AFRICAN AMERICAN HISTORY. (3, fa, even). Survey of the history of Black people from ancient Africa to the present. Prerequisite: ENG 101.

HIS 403 BLACKS IN AMERICA. (3, sp, even). Black people in the U.S. from the beginning of the slave trade through the 20th century. Prerequisite: HIS 205 or 206 or consent of instructor.

MUS 205 MUSIC OF BLACK AMERICANS. (3). An historical and analytical survey (performance practices and compositional trends) of jazz, ragtime, sacred music (spirituals and gospel), secular folk songs, rhythm and blues, etc., emanating from the Black experience.

LEGAL STUDIES

Objectives

The minor in Legal Studies is an interdisciplinary course of study that allows students to explore an interest in a career in law. This minor is designed as a cross- disciplinary effort between the areas of Public Administration, Criminal Justice, and Political Science. Students completing the minor in Legal Studies will have an understanding of the basic areas of the American legal system. Students will also be allowed to develop areas of interest in specialty areas of law.

Required Courses

Twenty-one (21) hours of required courses.

A minimum grade of “C” in BAD 275, BAD 412, CJ 475, PHI 101, PSC 430 and 6 hours of electives taken from the following: BAD 385, CJ 201, CJ 320, CJ 340, LE 420, PAD 463, PHI 304, PSC 420, PSC 460.

Course Descriptions

BAD 275 BUSINESS LAW I. (3, fa, sp, su). Introduction to basic principles of business law including torts, crimes, contract law, product liability, consumer protection, and labor law. Also covered are sales, warranties, and an introduction to the Uniform Commercial Code.

BAD 385 DISCRIMINATION IN EMPLOYMENT. (3, fa). Individual and minority rights in industry, unions, urban centers and politics; public policies to eliminate discrimination in opportunities and employment. Prerequisite: BAD 338.

- BAD 412 BUSINESS LAW II.** (3, fa, sp). Concepts of business law including commercial paper, secured transactions, creditors' rights and bankruptcy, agency and employment, landlord-tenant relationships, personal property and bailments. Applications under the Uniform Commercial Code are emphasized.
- CJ 201 FOUNDATIONS OF CRIMINAL JUSTICE.** (3, fa). Historical and comparative development of law and criminal justice systems. Guest lectures by professionals and observational visits to selected criminal justice agencies featured. Opportunities for volunteer placement in criminal justice agencies.
- CJ 320 LEGAL ASPECTS OF CRIMINAL JUSTICE.** (3, sp). Criminal law and procedures, legal process, constitutional limitations, legal restraints, and jurisdictional problems. This course is designated writing intensive.
- CJ 340 THE AMERICAN COURT SYSTEM.** (3, sp). Development of Criminal Court, roles of judge, prosecutor, jury, and defense attorney; trial process; and contemporary issues.
- CJ 475 CRIMINAL LAW.** (3, sp). Legal definition of crime and defense; substantive criminal law, historical foundations; case study approach employed. Prerequisite: 9 hours of criminal justice courses; CJ 320 and 330; or equivalent.
- LE 420 CRIMINAL EVIDENCE AND PROCEDURES.** (3, sp). Due process; law of arrest, searches, and seizures; rules of evidence; interrogations and confessions; and recent developments.
- PAD 463 COLLECTIVE BARGAINING IN PUBLIC EMPLOYMENT.** (3, fa). History and current status of collective bargaining practices and governmental policies in the public sector; public policy at federal, state, and local levels in employee relations.
- PHI 304 BUSINESS ETHICS.** (3, fa, sp). Examination of approaches to moral decision making in business contexts. Issues explored include confidentiality, workers' rights, environmental concerns, corporate truth telling, and managerial professionalism. Same as BAD 304.
- PSC 420 PARTIES, PRESSURE GROUPS, AND PUBLIC OPINION.** (3, fa, odd). Roles and processes of participative organizations; opinion formation; and voting and other participative behavior.
- PSC 430 CONSTITUTIONAL LAW.** (3, fa, even). American constitutional principles, problems, and trends regarding governmental powers and civil liberties.

PSC 460 INTERNATIONAL RELATIONS. (3, sp, even). World politics, institutions, and concepts including power, resources, conflict resolution, and international law.

INTERNATIONAL STUDIES

Objectives

Students successfully completing the minor in Interdisciplinary International Studies will:

1. Demonstrate general knowledge of cultures beyond United States borders and an in-depth knowledge of their selected area of the world.
2. Understand the interconnectedness of peoples and nations through economic, political, and social systems.
3. Demonstrate ability to recognize that values guiding modern American society are not universal and, to compare and contrast domestic values to those of their area studies.

Requirements are a total of 25 credit hours distributed as follows:

Basic International Information: Students will be required to complete the following two courses (six credit hours). GEO 200 – World Geography and PHI 201 – Major religions of the World.

- I. History and Culture: Students must complete two courses (six credit hours) pertaining to their selected area of the world.
 - a. Africa and Africans in the
Diaspora HIS 203
African-American
history HIS 459
History of Africa
PHI 208 African World View
 - b. Europe
HIS 445 20th Century
Europe(required) HIS 457
History of Modern France
HIS 458 History of Modern
Russia
HIS 460 Modern
Germany HIS 456
Mod
ern Britain SPA
322 Spanish
Civilization
 - c. Spain and Latin America
HIS 430 Modern Latin America
SPA 321 Latin American
Civilization SPA 322
Spanish Civilization
 - d. Asia
HIS 431 History of China

HONORS PROGRAM

Lincoln University offers the talented and highly motivated students the opportunity to pursue a 24-credit-hour Honors Program which features small classes, unique academic challenges, individual attention from Honors faculty, and association with other like-minded students. The kinds of creative teaching and learning fostered in this environment will assist the student in developing intellectually and in meeting academic goals.

The program offers a cluster of general education courses from which to select. Additionally, the Honors student has opportunities to compete for summer mentorships, working closely with a faculty member on a research or creative project; to do sustained research or creative work leading to a thesis in the student's major; and to present his/her work at regional, national, and international conferences.

The following courses comprise the Honors Program curriculum:

GE	101H	Honors University Seminar	1 hr.
ENG	151H	Honors Composition and Rhetoric I	3 hrs.
ENG	152H	Honors Composition and Rhetoric II	3 hrs.
HIS	151H	Honors World Civilization I	3 hrs.
HIS	152H	Honors World Civilization II	3 hrs.
PSY	151H	Honors General Psychology	3 hrs.
SOC	151H	Honors Sociology	3 hrs.
HUM	200H	Honors Humanities	4 hrs.
PSC	203H	American National Government	3 hrs.
PHI	203H	Honors Ethics	3 hrs.
ENG	301H	Honors Introduction to Literature	3 hrs.
ENG	312H	Virginia Woolf and Her Works	3 hrs.
ENG	314H	Film and Fiction	3hrs.
AAS	400H	Honors Service Learning	3 hrs.
PHI	400H	Honors Special Topics	3 hrs.
ENG	301H	Honors Special Topics/Literature	3 hrs.
ENG	470H	Honors Special Topics/Language & Literature	3 hrs.
ENG	471H	Honors Special Topics/Creative Writing	3 hrs.
ENG	473H	Honors Special Topics/African American Lit.	3 hrs.
	481H	Honors Summer Mentorship (may be taken more than once)	3 hrs.
	482H	Senior Honors Thesis	3-6 hrs.

Course descriptions for all honors courses are listed in the respective academic programs sections of this *Bulletin*.

To satisfy the requirements of the Honors Program curriculum, a student must complete a minimum of 24 hours of honors coursework. The student must maintain a 3.2 GPA in honors courses and a cumulative 3.2 GPA to graduate from the Honors Program. The transcript and diploma of the student who fulfills these requirements will carry an honors designation.

- 200H HONORS HUMANITIES SEMINAR.** (4, fa). An interdisciplinary study of selected themes, topics, concepts and periods in the humanities, including art, literature, music, philosophy and theatre for honors students. Seminar setting with required writing laboratory. Prerequisites: ENG 151H and ENG 152H, or ENG 101 and ENG 102 with faculty recommendation.
- 481H HONORS SUMMER MENTORSHIP.** (3, su). Provides students with the opportunity to engage in an individual research or creative project under the close supervision of a faculty mentor. Students work on a project 20 hours per week. Prerequisites: Previous honors coursework with a 3.2 GPA; 3.2 cumulative GPA; junior standing; consent of department; and consent of Honors Committee. To obtain Honors Committee consent, the student must submit an application to that committee. Honors Summer Mentorship awards may be available within departments but are competitive and limited in number. Inquire within the department. Available in History (HIS 481H) and Psychology (PSY 481H).
- 482H SENIOR HONORS THESIS.** (3-6). Provides students with the opportunity to engage in a substantial research or creative project in their major under the direction of a thesis committee. Prerequisites: 18 hours of honors courses with a 3.2 GPA; senior standing; consent of department; and consent of Honors Committee. Available in English (ENG 482H).

STUDIES IN RELIGION

College credit is given for satisfactory completion of Religion courses. A maximum of 10 hours of credit in Religion or in religious education courses taken at any accredited college will be accepted as electives by Lincoln University. Credit for courses taken in religious education may not be used to fulfill any general education requirement of the University.

REL 200 HOW TO UNDERSTAND THE BIBLE. (3). A discussion of principles of interpretation, Biblical literature types, and historical reflection on various stages of Biblical translation. Allows the student to gain a deeper insight into and appreciation of the Bible.

REL 201 SURVEY OF THE OLD TESTAMENT. (3). Students will gain a general understanding of the Pentateuch, the historical, poetical, and prophetic books of the Old Testament. They will learn about the historical contexts within which each book was written, the book's literary origins, structure and significance, and each book's religious aspects and implications.

REL 202 SURVEY OF THE NEW TESTAMENT. (3). A survey of the New Testament, beginning with the Inter-Biblical period. A survey of the origin and literature of the New Testament, the beginning and early history of Christianity, geography, dates, authorship, and purpose of the books of the New Testament.

REL 327 CHRISTIANITY AND CONTEMPORARY ISSUES. (3). Students will gain an understanding and appreciation of the fundamental principles and methods of Christian moral theology, and their historical development. Students will explore the relationship of those principles and methods to Scripture and Christian theology, and their application to contemporary social issues.

MILITARY SCIENCE

Mission

ROTC attracts, motivates, and prepares select students who have the potential to serve as commissioned officers in the Regular Army, U.S. Army Reserves, and Army National Guard.

Objectives

The professional training and educational offerings of the Department of Military Science aim to produce students who have the skills, knowledge and aptitude to perform the following duties as commissioned officers:

1. Understand the fundamental concepts and principles of military science
2. Demonstrate leadership and managerial potential by controlling people, equipment and resources
3. Demonstrate a strong sense of personal integrity, honor and individual responsibility
4. Foster an appreciation of the requirements for national security
5. Demonstrate an ability to execute missions given Army tasks, conditions and standards
6. Demonstrate the physical abilities needed to perform to standard the Army Physical Fitness Test and other physical challenges as assigned

Attainment of these objectives will prepare students for commissioning and will establish a sound basis for their future professional development and effective performance in the Army. Students receiving commissions as second lieutenants may go on active duty for three or four years or may request service with the National Guard or Army Reserves to fulfill their military obligation. To fulfill the National Guard or Army Reserve commitment, individuals apply to join a unit in their hometown or the locale to which they go after graduation. Generally, reserve component officers go to a basic officer leader course (four months) to learn their specific military skills. Students are not obligated to serve in the Army until they enter into an ROTC contract.

Programs Offered

Leadership, management, and adventure experiences are common to each Military Science program.

1. Four-year program: Open to all freshman students of good moral character; **non- US citizens must have embassy approval prior to enrolling.** The freshman- and sophomore-level courses do not obligate the student to the ROTC or military service (unless they enter into an ROTC contract).
2. Two-year program: Available to students who have completed their sophomore year of college or enrolled in first semester of graduate school. Most students eligible for the two-year program attend a four-week ROTC Basic Camp prior to entering the MSC 301 course. Basic Camp provides placement credit for MSC 101, 102, 201 and 202 and six elective credit hours toward graduation.
3. Simultaneous Membership Program (SMP): Students who are members of

for additional military training throughout the United States and overseas. Officers may receive several assignments overseas allowing them to vacation in these countries when they have time off. Low-cost space available travel is possible on military aircraft worldwide

7. Multiple extracurricular and social activities: The Department of Military Science sponsors the Ranger Challenge Team, Color Guard, and Military Ball.
8. A meaningful contribution to the defense of freedom and democracy of the United States of America.
9. Opportunities to earn an advanced degree with government assistance/expense.
10. Career opportunities in over 23 fields and specialties.
11. Leadership Development Laboratories: A unique feature of the Military Science program is that leadership labs provide valuable hands-on experience that complements class instruction and enhances leadership skills. Uniforms are provided and must be worn to labs and classes.
12. All contracted cadets enrolled in ROTC receive a subsistence allowance of \$420 per academic month.

Required Courses

Minor: Students wishing to minor in Military Science must complete the following courses: MSC 101, 102, 201, 202 (or the equivalent), 301, 302, 401, and 402 (total of 18 credit hours with a minimum grade of “C”).

Course Descriptions

Listed courses may not be taught every semester or every year. The department head and departmental advisors have information about projected course offerings for a semester/year.

- MSC 101 FUNDAMENTALS OF LEADERSHIP AND MANAGEMENT.** (1).An introduction to Army ROTC leadership qualities and responsibilities. Emphasis on development of individual skills through committee-taught, performance-oriented leadership development subjects. Instruction is centered around marksmanship, adventure education and self-development techniques. (Must meet citizenship requirements.)
- MSC 102 MILITARY SKILLS.** (1). An introduction to the use of the basic military skill of map reading and land navigation. **(Must meet citizenship requirements.)**
- MSC 103 RANGER TRAINING.** (1). A course focusing on Army tactics and techniques required in the Ranger Challenge competition. Extensive and intensive physical activity consisting of running, throwing, shooting, rappelling, etc. Prerequisite: Consent of instructor.

- MSC 106 LEADERSHIP LABORATORY.** (1). Development of tactical skills, military planning, drill and ceremonies, and land navigation. Prerequisite: Concurrent enrollment in MSC 101 or 102.
- MSC 201 ADVANCED INDIVIDUAL LEADERSHIP SUBJECTS.** (2). An introduction to self-development/human relations and assertiveness techniques and practical application of these skills in leadership roles. Focus is on development through the application of interpersonal Communications techniques, practical work with role play exercises, and learning through involvement. Prerequisite: Consent of instructor.
- MSC 202 INTRODUCTION TO TACTICS AND OPERATIONS.** (2). A study of the fundamentals of small unit tactics and the application of leadership to changing situations. Prerequisite: Consent of instructor.
- MSC 203* LEADERSHIP EQUIVALENCY.** (6). Completion of ROTC Basic Camp (or equivalent) or ROTC Advanced Camp. Basic Camp is a four- week summer field training program designed to evaluate students' abilities to handle themselves and others in new and demanding situations. Advanced Camp is designed to build individual confidence through the accomplishment of tough and demanding training. It is designed to build upon the core on-campus instruction by developing and accessing leadership potential. Prerequisite: Consent of instructor.
- MSC 204 LEADERSHIP LAB.** (1). Development of tactical skills, military planning, drill and ceremonies, and land navigation. Prerequisite: Concurrent enrollment in MSC 201 or 202.
- MSC 301 LEADERSHIP AND MANAGEMENT I.** (3). Develops principles and techniques of leadership and management. Course provides an introduction and practical application in first aid, nuclear-biological-chemical (NBC) operations, tactical communication and an introduction to infantry weapons. Prerequisite: MSC 101, 102, 201, 202, or their equivalent and approval of the Professor of Military Science.
- MSC 302 ADVANCED TACTICS.** (3). Development of intermediate techniques of leadership and management, tactical operations exercises, introduction to wire and radio communications, NBC operations, infantry weapons systems and the psychology of leadership. Prerequisite: MSC 101, 102, 201, 202, or their equivalent and approval of the Professor of Military Science.
- MSC 303 LEADERSHIP LABORATORY.** (1). Development of tactical skills, military planning, drill and ceremonies, and land navigation. Prerequisite: Concurrent enrollment in MSC 301 or

302.

- MSC 304 NATIONAL STRATEGIC STUDIES.** (3). International relationships of the United States and its allies and the study of current events as they apply to foreign policy. Prerequisite: Approval of the Professor of Military Science.
- MSC 401 LEADERSHIP AND MANAGEMENT II.** (3). Develop proficiency in leadership and management skills with emphasis on duties and obligations of an officer. Introduces students to basic concepts of military law and develops an understanding of training management. Prerequisite: MSC 301 and 302 or approval of the Professor of Military Science.
- MSC 402 FUNDAMENTALS AND DYNAMICS OF THE MILITARY TEAM.** (3). Develop proficiency in using tactical management skills with emphasis on the role of Army staffs, staff estimates and plans, command and control, decision making, platoon operations, and a practicum with Army ROTC Management Simulation Programs. Prerequisite: MSC 301 and 302 or approval of the Professor of Military Science.
- MSC 403 MILITARY WRITING.** (3). Improves student's ability to prepare effective staff studies, research papers and briefings. Prerequisite: Approval of the Professor of Military Science. **(For BLS purposes, course may be considered CAPSTONE and writing intensive.)**
- MSC 404 LEADERSHIP LABORATORY.** (1). Development of tactical skills, military planning, drill and ceremonies, and land navigation. Prerequisite: Concurrent enrollment in MSC 401 or 402. Additional information:

1. Students enrolled in Military Science may acquire additional adventure training through the ROTC Ranger Program.
2. Leadership laboratory is mandatory for all contracted students enrolled in Military Science courses. The lab includes practical training in leadership, drill and ceremonies, operations and planning, organizing, controlling, coordinating and conducting various military tactical and administrative exercises. The lab is conducted on Wednesday afternoons from 2:00-5:00p.m.
3. All advanced course students are required to attend a 30-day leadership practicum course during the summer months between the junior and senior years. This practicum is called ROTC Advanced Camp and is usually conducted at Fort Knox, KY. All expenses are paid for by the Army which includes transportation from Lincoln University or home of record to Advanced Camp and return.
4. Physical training (PT) is required for all contracted cadets.

LIBRARY AND INFORMATION SCIENCE

Assistant Professors:

Blau, Katrina
Kuykendall, Bradley
Robey, Jessica

Instructors:

Martin, Dylan
Schleer, Mark
Witzman, Sean

Mission

The mission of the Library and Information Science minor is to provide an educational foundation for students in gathering, organizing, and disseminating information. Students will learn how to critically evaluate information, understand the role information plays in an educated society, and use technological tools and applications to advance the education of information users.

Objectives

Students successfully completing a minor in Library and Information science will:

1. develop appropriate technological skills applicable to information access
2. understand the foundation of librarianship and the ethics and integrity involved with collecting and evaluating resources
3. employ the latest trends in the Library and Information Science fields
4. understand current issues in collection development faced in various types of libraries
5. have a general knowledge of current organizational schemes used in libraries;
6. prepare students to conduct research in any academic field
7. prepare for graduate studies in Library and Information Science, or employment

Required Courses

Minor in Library and Information Sciences: A minimum of thirteen (13) hours of Library and Information Science specific coursework (LS 101, LS 401, LS 402, LS 403, and LS 404) and five (5) hours of related elective coursework for a total of eighteen (18) hours with a minimum grade of "C." One elective must be chosen from the Technology area.

Course Descriptions

LS 101 INFORMATION LITERACY (1, FA/SP) 8-weeks.

This course introduces learners to information retrieval, evaluation and research skills.

LS 401 INTRODUCTION TO LIBRARIES & INFORMATION (3, fa).

This course is an introduction to the types of libraries, their organization, services, standards, and technology. It also explains the concept of information in its various forms and prepares students to successfully identify, locate and use information.

LS 402 INFORMATION SOURCES & SERVICES (3 fa).

This course introduces print and electronic reference sources, as well as access services such as interlibrary loan, Government documents, abstract indices, encyclopedias, serials, electronic databases, the library's OPAC, and subscription databases.

LS 403 COLLECTION DEVELOPMENT (3, sp).

This course examines the theoretical and practical aspects of the selection, evaluation, and management of collections in all types of libraries. It also explores policy making procedures, acquisitions, publishers, intellectual freedom and censorship.

LS 404 LIBRARY ETHICS (3, sp).

This course will look broadly at the many arenas in which librarians face ethical choices, how practitioners identify an ethical dilemma, and discuss how to separate personal belief from professional responsibility, and how to make exceptions in a principled way.

Prerequisites: ENG 101, ENG 102, PHI 101 and LS 401.

Elective Courses

Elective classes permit students and their advisors to tailor the library minor to their interests.

CS 205 ADVANCED MICROCOMPUTER APPLICATIONS (3, LF).

Students will receive hands-on skill development in advanced microcomputer operating system commands, electronic spreadsheets, file and database management systems, graphics, and other common application packages. Emphasis will be on interfacing applications. Three hours of combined lecture and laboratory.

Prerequisite: CS 105.

CS 341 COMPUTER GRAPHICS IN BUSINESS (3, LF).

Identifies the needs and applications for graphics in business, and highlights developments such as laser printers and advanced displays and techniques. Three hours lecture with outside laboratory assignments. Prerequisite: CS 105.

CS 344 WEB DESIGN (3).

This course is designed to give the student a working knowledge of HTML and "Dreamweaver" software, as well as webpage and website design techniques. Upon completion of this course, students should understand the navigational structure of a website and be able to design and build easy-to-use informative websites.

Prerequisite: CS 105.

- EDU 256 LITERATURE FOR CHILDREN AND ADOLESCENTS (3).**
Focus of the course will be on choosing quality literature for classroom use, effective strategies for teaching with literature and emphasizing life-long reading with students. Appropriate award winning literature for elementary and secondary students will be examined. (Meets requirements for EDU 280 and middle school certification.)
- EDU 260 EDUCATION AND CULTURAL DIVERSITY (3, fa, sp).**
This course is open to students interested in the connections between the global institution of education and the complex nature of cultural diversity. (Partially fulfills the cultural diversity requirement for General Education.)
- EDU 270 INSTRUCTIONAL TECHNOLOGY (3, fa, sp, su).**
This class is designed to make students proficient in various forms of media technology to include desktop publishing, webpage design, and electronic presentation.
- EDU 376 ADVANCED INSTRUCTIONAL TECHNOLOGY (2, fa, sp).**
Students will review skills acquired in EDU 270-Instructional Technology. During this review, students will develop advanced skills in desktop publishing, using digital video in PowerPoint presentations, and creating websites using Macromedia Dreamweaver. Prerequisite: EDU 270 or permission of instructor.
- EDU 481 EDUCATIONAL USE OF THE INTERNET (3, su).**
Exploration of the ways the internet can be utilized in classroom settings. Focus will be on ways the internet can provide tools for communication, inquiry, and construction.
- EDU 488 GRANT WRITING TECHNIQUES (3, su).**
The purpose of this hybrid course is to help students acquire essential skills on the background and power of writing grant proposals for discretionary/ competitive competitions.
- HIS 402 ETHNIC HISTORY (3).**
Experiences of various minority groups in the United States; could include Afro-Americans, Mexican-Americans, Puerto Ricans, American Indians and/or German Americans.
- HIS 385 HISTORICAL METHODS (3, sp even).**
Introduction to bibliography, scholarly methods, and the critical evaluation of historical research. This course is designated writing intensive. Prerequisite: 12 hours of history.

JOU 125 VISUAL COMMUNICATION I (3, fa).

Introduction to visual communication principles and application, emphasizing photojournalism. Students will create communication material for publication consideration in the Lincoln University Clarion. Digital camera and mobile storage required.

LS 409 INDEPENDENT STUDY (3, by request).

Individual will work with instructor to explore a topic in depth.

Prerequisite: Instructor's permission.

LS 497-498 SPECIAL TOPICS (1-3, fa).

LIS Special Topics is designed to provide either seminar experience for students or individual research topics. This course may include research intense projects and practical experiences.

Prerequisites: ENG 101, 102; GE 101 or as designated by course.

LS 499 PRACTICUM (3)

This is an excellent way to gain work experience and explore career options in a wide variety of professional settings.

Prerequisites: LS 101, 401, 402, 403, 404.

SS 451 DATA COLLECTION METHODS (3, fa).

Research design, methodology, and techniques of data collection.

Prerequisite: 9 hours of Social Science. See Sociology listing.

ACCOUNTING

Professor:

Headrick, Marilyn

Associate Professor:

Bailey, Leola

Mission

The Accounting program offered by the Department of Business prepares graduates for entry into all fields of accounting, including public accounting, government, industry, not-for-profit institutions, and private practice. This program provides a solid foundation in accounting concepts, practices, and specialized training in technical aspects of accounting combined with a broad background in business, which will enable graduates to succeed in their chosen careers.

Degree Offered

Bachelor of Science in Accounting

Objectives

All students completing the B.S. in Accounting will:

1. Have an understanding of the concepts and theory underlying generally accepted accounting principles;
2. Have the technical, problem-solving, critical thinking, and computer skills necessary to perform successfully in government, industry, education, tax, auditing, or consulting;
3. Be able to successfully demonstrate the application and integration of core competencies;
4. Compare favorably in knowledge and core competencies with students completing a similar program nationally;
5. Possess the necessary knowledge to pass the Uniform Certified Public Accountant examination or other professional certification examinations;
6. Successfully demonstrate the ability to communicate effectively through the written media.

Assessment Program

Assessment measures enable Accounting faculty to determine whether students have adequately satisfied program objectives. Through use of case studies and unstructured problems in performance-based courses, students can periodically review their performance and evaluate their progress. Primary emphasis will be placed on the major field assessment test in business. This assessment test is to be taken by students in their first and last semester. Test results will be included as part of the capstone course grade. Other assessment measures include information obtained from internal exit interviews.

Computer Skills Requirement

Students majoring in programs of the Department of Business will develop hands-on skills in the use of word processing, electronic spreadsheets and database systems as they pertain to accounting and other business-related operations.

All majors will be required to take BED 208 or demonstrate a comparable skill level through a proficiency examination. This requirement must be met prior to completing the first 60 hours of work or within the first semester of transferring to Lincoln University, whichever is applicable.

Required Courses

Major: B.S. in Accounting

General Education Requirements: MAT 113 or 121 is required for Area 3 (Mathematics Skills), ECO 201 is required for Area 5 (Social and Behavioral Science), PHI 304 is required for Area 6 (Humanities and Fine Arts), and BAD 215 is required for Area 7 (International Cultural Diversity) with a minimum grade of “C” for all baccalaureate programs in the Department of Business.

Core Requirements: A minimum grade of “C” in ACC 246-247; BAD 200, 275, 310, 350, 376; BED 208, 312; ECO 202; MKT 321.

Major Requirements: A minimum grade of “C” in ACC 342, 343, 345, 346, 347, 348, 441, 446, 448, 449; BAD 101, 490.

Minor: 18 hours in Accounting with a minimum grade of “C” including ACC 246- 247 and 346-347.

Course Descriptions

Listed courses may not be taught every semester or every year. The department head and departmental advisors have information about projected course offerings for a semester/year.

- ACC 246 PRINCIPLES OF ACCOUNTING I.** (3, fa, sp, su). Fundamental principles of financial accounting as applied to sole proprietorships and partnerships. Prerequisite: a minimum grade of “C” in MAT 111 or higher.
- ACC 247 PRINCIPLES OF ACCOUNTING II.** (3, fa, sp, su). Continued study of financial accounting principles as applied to corporations. Introduction to cost/managerial accounting. Prerequisite: ACC 246.
- ACC 340 ACCOUNTING FOR MANAGERS.** (3). This course is designed for non- accounting majors as an accounting elective. Case studies of realistic business situations may be used to provide future managers with a better understanding of how accounting information is used in management decision-making. Prerequisite: ACC 247.

- ACC 342 COST MANAGEMENT I.** (3, fa). Accounting procedures and policies designed to study cost accumulation procedures and alternative costing methods. Prerequisite: ACC 247; BED 208 or CS 105.
- ACC 343 COST MANAGEMENT II.** (3, sp). Uses of financial and cost accounting data by management for planning, decision-making, and control. Emphasis is given to qualitative, quantitative, and statistical analysis. Prerequisite: ACC 342; BED 208 or CS 105.
- ACC 345 INDIVIDUAL INCOME TAX.** (3, fa, sp). Principles and problems related to federal income taxation of individuals; preparation of appropriate forms and schedules. Prerequisite: ACC 247.
- ACC 346 INTERMEDIATE ACCOUNTING I.** (3, fa). A more intensive study of accounting principles and theory with emphasis on analysis and valuation of current assets. Prerequisite: ACC 247; BED 208 or CS 105.
- ACC 347 INTERMEDIATE ACCOUNTING II.** (3, sp). A more intensive study of problems concerning the analysis and valuation of noncurrent assets, current and noncurrent liabilities, and stockholders equity. Prerequisite: ACC 346; BED 208 or CS 105.
- ACC 348 COMPUTERIZED ACCOUNTING.** (3, fa). An introduction to commercial accounting software, database software, and spreadsheet software that enable the students to keep accounting records and produce financial reports for most small to medium-sized business. Prerequisites: ACC 246; BED 208.
- ACC 390 DIRECTED TUTORING.** (3). Supervised tutoring of Principles
/391 of accounting students. Prerequisites: ACC 246, 247, 346, and 347, with a grade of “B” or better; permission of the instructor.
- ACC 407 ACCOUNTING INTERNSHIP.** (3). Supervised practical instruction in a public or private organization along with an academic component monitored by faculty. Prerequisite: Permission of the instructor.
- ACC 441 GOVERNMENTAL ACCOUNTING.** (3, fa). Principles and practices related to government and not-for-profit units; utilizes fund accounting and budgetary controls. Prerequisite: ACC 247.
- ACC 445 CORPORATE INCOME TAX.** (3, sp). A study of federal taxation laws as applied to businesses, with an emphasis on corporations, including S corporations. Prerequisite: ACC 345.

- ACC 446 INTERMEDIATE ACCOUNTING III.** (3, fa). Continued study of financial accounting topics, including pensions, leases, Statement of Cash Flows, accounting changes and errors, and partnerships. Prerequisite: ACC 347; BED 208 or CS 105.
- ACC 447 ADVANCED FINANCIAL ACCOUNTING.** (3, sp). An advanced financial accounting course that examines consolidated financial accounting and reporting for corporate entities. Also includes an introduction to international accounting, including foreign currency transactions and the translation of foreign currency financial statements. Prerequisite: ACC 347.
- ACC 448 ACCOUNTING INFORMATION SYSTEMS.** (3, sp). An integrated study of information systems for accounting with an emphasis on managerial decision-making, internal controls, organization structure, accounting models, database design and development, and manual and computerized information systems. Prerequisites: ACC 342 and ACC 346.
- ACC 449 AUDITING.** (3, sp). Analysis and application of the theory and techniques of auditing principles and procedures. Prerequisite: ACC 347 or concurrent enrollment.
- ACC 495 /497 SPECIAL TOPICS IN ACCOUNTING.** (1-3). Selected topics in accounting dealing with subjects of professional interest. Topic to be listed in course schedule. May enroll again as topic changes.

NOTES:

1. Students planning to sit for the CPA exam should also take ACC 445 (if not pursuing the Lincoln University MBA program with an Accounting Emphasis), and BAD 412.
2. The Missouri State Board of Accountancy now requires a minimum of 150 hours to sit for the Certified Public Accountant exam. Refer to the Lincoln University Graduate Bulletin for information about the Master of Business Administration program with an emphasis in Accounting, or consult with an advisor to determine other options available to fulfill this requirement.
3. Other professional accounting certifications are available that do not require additional hours beyond completion of a B.S. degree to sit for the applicable exam: the Certified Management Accountant and the Certified Internal Auditor.

BUSINESS ADMINISTRATION

Professors:

Bouras, David
Chowdhury, Manzoor
Edoho, Felix
Ike, Roberto

Associate Professors:

Frank, Troy
Walker, Natalie

Assistant Professors

Melloway, Janet

Instructor:

Allen, Kayla

Mission

The Business Administration program offered by the Department of Business prepares graduates for entry into domestic or international business positions, including industry, government, and private entrepreneurship. The program exposes the graduates to a broad range of principles, theories, models, experiences, and ethics of business organization, which will enable graduates to succeed in their chosen careers.

Degree Offered

Bachelor of Science in Business Administration

Objectives

All students completing the B.S. in Business Administration will:

1. Have an understanding of the concepts and theories underlying the operation and management of domestic or international businesses;
2. Have the technical, problem-solving, critical thinking, and computer skills necessary to perform successfully in industry, government, or private entrepreneurship;
3. Be able to successfully demonstrate the application of core competencies;
4. compare favorably in knowledge and core competencies with students completing a similar program nationally;
5. Possess the necessary knowledge to pass the Major Field Assessment Test in Business;
6. Successfully demonstrate the ability to communicate effectively orally and in writing.

Assessment Program

Assessment measures enable Business Administration faculty to determine whether students have adequately satisfied program objectives. Through use of case studies and unstructured problems in performance-based courses, students can periodically review their performance and evaluate their progress. Primary emphasis will be placed on the major field assessment test in business. This assessment test is to be taken by students in their first and last semester. Test results will be included as part of the capstone course

grade. Other assessment measures include information obtained from internal exit interviews.

Computer Skills Required

Students majoring in programs of the Department of Business will develop hands-on skills in the use of word processing, electronic spreadsheets and data base systems as they pertain to accounting and other business-related operations.

All majors will be required to take BED 208 or demonstrate a comparable skill level through a proficiency examination. This requirement must be met prior to completing the first 60 hours of work or within the first semester of transferring to Lincoln University, whichever is applicable.

Required Course

General Education Requirements: A minimum grade of “C” is required in ECO 201 for Area 5 (Social and Behavioral Science) MAT 113 (Area 3), PHI 304 for Area 6 (Humanities and Fine Arts) and BAD 215 for Area 7 (International Cultural Diversity) for all baccalaureate programs in the Department of Business.

Core Requirements: A minimum grade of “C” in ACC 246-247; BAD 200, 275, 310, 350, 376; BED 208, 312; ECO 202; MKT 321.

Major Requirements: A minimum grade of “C” in BAD 101, 250, 338, 451, 465, 475, 487, 490; ECO 305; 12 hours BAD electives.

Minor: 21 hours in Business Administration courses with a minimum grade of “C” including BAD 275, 310, 338, 350, 465; and 6 hours BAD electives.

Sports Management Minor: 18 hours with a minimum grade of “C” including BAD 491, 493, 494; PSY 407 and 6 hours BAD electives.

Course Descriptions

Listed courses may not be taught every semester or every year. The department head and departmental advisors have information about projected course offerings for a semester/year.

BAD 101 INTRODUCTION TO BUSINESS. (3, fa, sp, su). Introductory course intended to provide an overview of business, and provide students with an understanding of business principles, processes, practices and strategies.

BAD 200 BUSINESS STATISTICS I. (3, fa, sp, su). This course covers basic statistical analysis with a strong emphasis on business applications, managerial decision making and computer application. Prerequisite: MAT 112 or higher.

BAD 215 INTRODUCTION TO GLOBAL BUSINESS. (3,fa, sp, su). Introduces students to an integrated framework for understanding global business and the cultural, political, and economic environments within which it operates.

BAD 250 PERSONAL FINANCE. (3, fa, sp, su). Factors affecting

- financial management and investment decisions of the individual.
- BAD 275 BUSINESS LAW I.** (3, fa, sp, su). Introduction to basic principles of business law including torts, crimes, contract law, product liability, consumer protection, and labor law. Also covered are sales, warranties, and an introduction to the Uniform Commercial Code. Prerequisite Sophomore Standing.
- BAD 310 PRINCIPLES OF MANAGEMENT.** (3, fa, sp, su). Introduction to the basic functions of management; historical development of the principles of management with emphasis on tools used in managerial decisions. This course is designated writing intensive. Prerequisites: BAD 101 and ENG 102.
- BAD 335 PRINCIPLES OF RISK MANAGEMENT.** (3,sp). Underlying principles of insurance; the nature and uses of various forms of insurance contracts; types of insurance careers. Prerequisites: ECO 202, MAT 112 or higher, or permission of the instructor.
- BAD 336 REAL ESTATE FUNDAMENTALS.** (3,). Basic principles of the real estate business. Prerequisite: ECO 202 or permission of the instructor.
- BAD 338 HUMAN RESOURCE MANAGEMENT.** (3, fa, sp). Recruitment, selection, and placement of personnel; employee training programs and promotion; wage and salary administration; and employee benefit plans. Prerequisite: BAD 310.
- BAD 350 FUNDAMENTALS OF FINANCIAL MANAGEMENT.**(3, fa, sp).Debt and equity instruments for financing capital requirements of business, including planning and analysis of financial problems. Prerequisites: ACC 247, BAD 200 and ECO 202.
- BAD 376 BUSINESS STATISTICS II.** (3, fa, sp, su). Inference and testing statistical hypotheses; applications of correlation and regression analysis, analysis of variance; non-parametric statistics; decision theory; and business forecasting. Prerequisite: BAD 200.
- BAD 385 DISCRIMINATION IN EMPLOYMENT.** (3,). Individual and minority rights in industry, unions, urban centers and politics; public policies to eliminate discrimination in opportunities and employment. Prerequisite: BAD 338.
- BAD 405 GOVERNMENT AND BUSINESS.** (3, sp). Role of government in regulating the business sector, its market structure, conduct and performance. Regulatory laws such as

antitrust laws and their implications are emphasized. Prerequisite: ECO 202.

- BAD 407 BUSINESS INTERNSHIP.** (3, fa, sp, su). Supervised practical instruction in a public or private organization along with an academic component monitored by faculty. Prerequisite: Senior standing or permission of instructor.
- BAD 412 BUSINESS LAW II.** (3, fa, sp). Concepts of business law including commercial paper, secured transactions, creditors' rights and bankruptcy, agency and employment, landlord-tenant relationships, personal property and bailments. Applications under the Uniform Commercial Code are emphasized. Prerequisite: BAD 275.
- BAD 441 INVESTMENTS.** (3,). Various types of investment vehicles will be surveyed. Major emphasis will be on basic principles of investment, the construction of an investment portfolio, security analysis, sources and uses of information and the mechanism for investment. Prerequisite: BAD 350 or permission of instructor.
- BAD 451 ORGANIZATIONAL THEORY AND BEHAVIOR.** (3, fa, sp, su). Study of various organizational structures, models, and supporting theory; organizations as complex systems; organizational behavior, individual and group dynamics in business environments; organizational development and change. Prerequisite: BAD 310.
- BAD 460 COMPENSATION MANAGEMENT.** (3,). A study of the policies and procedures in relation to wage levels and structures. Study of the instruments employed in wage and salary decision making. Prerequisite: BAD 338.
- BAD 465 OPERATIONS MANAGEMENT.** (3, fa, sp). The organization and management of manufacturing enterprises. Topics surveyed include production planning, plant layout, material handling, production and inventory control, statistical quality control, wage incentives. Co-requisites: BAD 310 and BAD 376.
- BAD 475 CAREER PREPAREDNESS SEMINAR,** (3, fa, sp). Concepts will include practical skills for choosing a career, obtaining employment, and enhancing potential for career success and providing a broad set of tool to more effectively manage a career.
- BAD 487 SMALL BUSINESS MANAGEMENT.** (3, fa, sp, su). The techniques and strategies for managerial decisions in a small business. Consideration is given to the role of small business in the free enterprise system. Prerequisites: ACC 247, BAD 310 and

MKT 321.

- BAD 490 BUSINESS POLICY.** (3, fa, sp). Capstone course that integrates knowledge in the field of business management. Prerequisite: Graduating Senior standing. (last semester).
- BAD 491 SPORT MANAGEMENT & FINANCE.** (3, sp). This course is designed to educate students concerning the professional skill sets and acumen that is required of individuals interested in a career in the sports industry in the 21st Century and beyond. All of the major aspects concerning managerial and leadership theory, organizational strategy, labor relations, issues in the modern work place, gender equity, marketing, budgeting, finance, economics, and facilities will be covered in this course. Prerequisites: ENG 101, ENG 102, BAD 101, BAD 215.
- BAD 493 GLOBAL SPORT ORGANIZATIONS & COMMERCE.** (3, fa, sp). This course is designed to educate students concerning the structure of international sports organizations and commerce. Topics covered will include economic impact and organization of global sports. Prerequisites: ENG 101, ENG 102, BAD 101, BAD 215.
- BAD 494 SPORTS & SOCIETY.** (3, sp). This course is designed to educate students concerning the complex and wide array of issues concerning the economic, cultural, and social impact of sports on both American and global society. Prerequisites: ENG 101, ENG 102, BAD 101, BAD 215.
- BAD 495/497 SPECIAL TOPICS IN BUSINESS.** (1-3). Topic to be listed in course schedule. May enroll again as topic changes.

BUSINESS EDUCATION

Assistant Professor:

Melloway, Janet

Mission

The organizing themes that structure teacher education at Lincoln University are enduring understanding, engaging pedagogy, and evolving worldview. The mission for the degree in Business Education is to prepare individuals to be effective, caring, and competent classroom teachers in the area of secondary (9-12) business education.

Degree Offered

Bachelor of Science in Business Education

Certification Requirements

Certification requirements with the Department of Elementary and Secondary Education state that the candidate for Career Business Education Certification must show documentation of

1. the course “Implementing (Vocational) Business Education Programs” which must appear on the student’s transcript, and
2. occupational work experience (minimum of 2,000 hours) which must be documented by Lincoln University.

Objectives

Students completing a BS degree in Business Education will:

1. Compare favorably in knowledge of business education with students completing a similar program nationally;
2. Perform successfully as a pre-service teacher in grades 9-12;
3. Demonstrate skillful application and integration of instructional technology into lesson plans;
4. Perform successfully as an in-service teacher in grades 9-12.

Assessment Program

The students in the education degree program have several checkpoints throughout their program that measure successful programs. Aside from the measurements taken in the discipline courses, students are evaluated according to the student teaching evaluation procedures, a professional portfolio, and the major Praxis II exam given prior to completion of the degree. Technology assessment is evaluated according to the Instructional Technology Demonstration Checklist, and business education rubrics utilized in performance based courses.

Computer Skills Requirement

Students majoring in programs of the Department of Business will develop hands-on skills in the use of word processing, electronic spreadsheets and database systems as they relate to accounting and other business-related operations.

Required Courses

General Education Requirements: A grade of “C” or better in MAT 113. ECO 201 is required for Area 5 (Social and Behavioral Science); PHI 304 is required for Area 6 (Humanities and Fine Arts), and BAD 215 is required for Area 7

(International Cultural Diversity); with a minimum grade of “C” for all baccalaureate programs in the Department of Business.

Core Requirements: A minimum grade of “C” in ACC 246 and 247; BAD 101, 275 and 310; and MKT 321.

Major Requirements: A minimum grade of “C” in BED 208, 312, 420 and 495. Student should consult with the head of the Department of Education regarding courses in education or an appropriate academic advisor.

The program for teachers of business subjects leads to the degree of Bachelor of Science in Education with a major in Business Education. This curriculum prepares graduates to teach business subjects with certification for grades 9–12.

Course Descriptions

Listed courses may not be taught every semester or every year. The department head and departmental advisors have information about projected course offerings for a semester or year.

- BED 208 INTEGRATED COMPUTER APPLICATIONS.** (3, fa). Integrated applications of keyboarding functions including word processing, database, spreadsheets, presentation graphics, and other applications pertinent to business. Prerequisite: Ability to touch type.
- BED 308 BUSINESS TECHNOLOGY APPLICATIONS.** (3, sp). Advanced business applications utilizing computer technology to process and manage business information electronically. Prerequisite: BED 208 or permission of instructor.
- BED 312 BUSINESS COMMUNICATIONS.** (3, fa, sp). Application of oral and written business communications, involving competency in effective letter writing, preparation of business reports, oral presentations, and employment related communication topics. Prerequisites: ENG 101 and 102, and SPT 206.
- BED 407 DIRECTED OFFICE INTERNSHIP.** (3, fa, sp, su). Supervised work experience allowing the student to apply business skills in an office environment. Students are also able to learn on-the-job procedures and explore career possibilities.

- BED 420** **IMPLEMENTING (VOC) BUSINESS EDUCATION PROGRAMS.** (3, su). This course includes a study of teaching techniques and devices, organization and development of curriculum, testing and measurements, funding, special populations, integrating academics, business/education partnerships, and multicultural activities. Special emphasis is given to innovations, systems and developments in business and education. Prerequisites: Senior standing or degree in Business Education.
- BED 495** **SPECIAL TOPICS.** (1-3). Topic to be listed in course schedule.
/497 May enroll again as topic changes.

MKT 321.

- BAD 490 BUSINESS POLICY.** (3, fa, sp). Capstone course that integrates knowledge in the field of business management. Prerequisite: Graduating Senior standing. (last semester).
- BAD 491 SPORT MANAGEMENT & FINANCE.** (3, sp). This course is designed to educate students concerning the professional skill sets and acumen that is required of individuals interested in a career in the sports industry in the 21st Century and beyond. All of the major aspects concerning managerial and leadership theory, organizational strategy, labor relations, issues in the modern work place, gender equity, marketing, budgeting, finance, economics, and facilities will be covered in this course. Prerequisites: ENG 101, ENG 102, BAD 101, BAD 215.
- BAD 493 GLOBAL SPORT ORGANIZATIONS & COMMERCE.** (3, fa, sp). This course is designed to educate students concerning the structure of international sports organizations and commerce. Topics covered will include economic impact and organization of global sports. Prerequisites: ENG 101, ENG 102, BAD 101, BAD 215.
- BAD 494 SPORTS & SOCIETY.** (3, sp). This course is designed to educate students concerning the complex and wide array of issues concerning the economic, cultural, and social impact of sports on both American and global society. Prerequisites: ENG 101, ENG 102, BAD 101, BAD 215.
- BAD 495/497 SPECIAL TOPICS IN BUSINESS.** (1-3). Topic to be listed in course schedule. May enroll again as topic changes.

Degree Pathway

Bachelor of Science in Business Administration

Freshman First Semester		Hrs	Freshman Second Semester		Hrs
GE 101	University Seminar	1	ENG 102	Comp. and Rhet. II	3
ENG 101	Comp. and Rhet. I	3	PSY 101	General Psychology	3
BED 208 or CS 105	Integrated Computer Applications	3	BAD 250	Personal Finance	3
MAT 112	Applied Algebra	3	PED 111	Personal and Community Health	2
BAD 101	Introduction to Business	3	ENV 103/104	Environmental Science w/Lab	4
BIO 103	Principles of Biology	3	TOTAL:		15
TOTAL:		16			
Sophomore Third Semester		Hrs	Sophomore Fourth Semester		Hrs
HIS 205 or PSC 203	U.S. History I or American Nat'l Gov't	3	HIS 102	World Civ. II	3
ECO 201	Macroeconomics	3	ECO 202	Microeconomics	3
ACC 246	Principles of Accounting I	3	ACC 247	Principles of Accounting II	3
BAD 215	Global Business	3	BAD 200 or MAT 117	Business Statistics I or Elem. Statistics	3
SPT 206	Fundamental of Speech	3	BAD 275	Business Law I	3
TOTAL:		15	TOTAL:		15
Junior Fifth Semester		Hrs	Junior Sixth Semester		Hrs
BAD 310	Principles of Management	3	BED 312	Business Communications	3
MKT 321	Principles of Marketing	3	BAD 338	Human Resource Mgt.	3
BAD 376	Business Statistics II	3	BAD 350	Fund. of Financial Mgt.	3
ECO 305	Money, Credit and Banking	3		Business Elective	3
ART, MUS, SPT or ENG	Art, music, theater appreciation or literature	3	SA 200	American Diversity or other diversity option	3
TOTAL:		15	TOTAL:		15
Senior Seventh Semester		Hrs	Senior Eighth Semester		Hrs
PHI 304	Business Ethics	3	BAD 490	Business Policy	3
BAD 451	Organizational Behavior	3	BAD 465	Operations Management	3
BAD 487	Small Bus. Management	3	BAD 475	Career Preparedness Seminar	3
	Business Elective	3		Business Elective	3
	Free Elective	2		Business Elective	3
TOTAL:		14	TOTAL:		15

Total Required Hours -120

BUSINESS EDUCATION

Assistant Professor:

Melloway, Janet

Mission

The organizing themes that structure teacher education at Lincoln University are enduring understanding, engaging pedagogy, and evolving worldview. The mission for the degree in Business Education is to prepare individuals to be effective, caring, and competent classroom teachers in the area of secondary (9-12) business education.

Degree Offered

Bachelor of Science in Business Education

Certification Requirements

Certification requirements with the Department of Elementary and Secondary Education state that the candidate for Career Business Education Certification must show documentation of

1. the course “Implementing (Vocational) Business Education Programs” which must appear on the student’s transcript, and
2. occupational work experience (minimum of 2,000 hours) which must be documented by Lincoln University.

Objectives

Students completing a BS degree in Business Education will:

1. Compare favorably in knowledge of business education with students completing a similar program nationally;
2. Perform successfully as a pre-service teacher in grades 9-12;
3. Demonstrate skillful application and integration of instructional technology into lesson plans;
4. Perform successfully as an in-service teacher in grades 9-12.

Assessment Program

The students in the education degree program have several checkpoints throughout their program that measure successful programs. Aside from the measurements taken in the discipline courses, students are evaluated according to the student teaching evaluation procedures, a professional portfolio, and the major Praxis II exam given prior to completion of the degree. Technology assessment is evaluated according to the Instructional Technology Demonstration Checklist, and business education rubrics utilized in performance based courses.

Computer Skills Requirement

Students majoring in programs of the Department of Business will develop hands-on skills in the use of word processing, electronic spreadsheets and database systems as they relate to accounting and other business-related operations.

Required Courses

General Education Requirements: A grade of “C” or better in MAT 113. ECO 201 is required for Area 5 (Social and Behavioral Science); PHI 304 is required for Area 6 (Humanities and Fine Arts), and BAD 215 is required for Area 7

(International Cultural Diversity); with a minimum grade of “C” for all baccalaureate programs in the Department of Business.

Core Requirements: A minimum grade of “C” in ACC 246 and 247; BAD 101, 275 and 310; and MKT 321.

Major Requirements: A minimum grade of “C” in BED 208, 312, 420 and 495. Student should consult with the head of the Department of Education regarding courses in education or an appropriate academic advisor.

The program for teachers of business subjects leads to the degree of Bachelor of Science in Education with a major in Business Education. This curriculum prepares graduates to teach business subjects with certification for grades 9–12.

Course Descriptions

Listed courses may not be taught every semester or every year. The department head and departmental advisors have information about projected course offerings for a semester or year.

- BED 208 INTEGRATED COMPUTER APPLICATIONS.** (3, fa). Integrated applications of keyboarding functions including word processing, database, spreadsheets, presentation graphics, and other applications pertinent to business. Prerequisite: Ability to touch type.
- BED 308 BUSINESS TECHNOLOGY APPLICATIONS.** (3, sp). Advanced business applications utilizing computer technology to process and manage business information electronically. Prerequisite: BED 208 or permission of instructor.
- BED 312 BUSINESS COMMUNICATIONS.** (3, fa, sp). Application of oral and written business communications, involving competency in effective letter writing, preparation of business reports, oral presentations, and employment related communication topics. Prerequisites: ENG 101 and 102, and SPT 206.
- BED 407 DIRECTED OFFICE INTERNSHIP.** (3, fa, sp, su). Supervised work experience allowing the student to apply business skills in an office environment. Students are also able to learn on-the-job procedures and explore career possibilities.

- BED 420** **IMPLEMENTING (VOC) BUSINESS EDUCATION PROGRAMS.** (3, su). This course includes a study of teaching techniques and devices, organization and development of curriculum, testing and measurements, funding, special populations, integrating academics, business/education partnerships, and multicultural activities. Special emphasis is given to innovations, systems and developments in business and education. Prerequisites: Senior standing or degree in Business Education.
- BED 495** **SPECIAL TOPICS.** (1-3). Topic to be listed in course schedule.
/497 May enroll again as topic changes.

Degree Pathway

Bachelor of Science in Education Business Emphasis

Freshman First Semester		Hrs	Freshmen Second Semester		Hrs
GE 101	University Seminar	1	ENG 102	Comp. and Rhet. II	3
ENG 101	Comp. and Rhet. I	3	BIO 103	Prin. of Biology	3
MAT 112/ 113	Applied or College Algebra	3	HIS 206	U.S. History II	3
PED 111	Personal & Comm. Health	2	PSC 203	Am. Nat'l Government	3
PSY 101	Gen. Psychology	3	BED 208	Integrated Comp. App.	3
BAD 101	Intro. to Business	3	BAD 275	Business Law I	3
TOTAL:		15	TOTAL:		15
Sophomore Third Semester		Hrs	Sophomore Fourth Semester		Hrs
SPT 206	Fund. of Speech	3	EDU 202	Obs. in Education	1
ENV 103	Environ. Science	3	EDU 204	Educ. Psychology	3
ENV 104L	Environ. Science Lab	1	SE 221	Ed. of the Except. Child	2
HIS 101	World Civilization I	3	ECO 202	Microeconomics	3
BAD 310	Prin. of Management	3	SA 200	American Diversity or other diversity options	3
ECO 201	Macroeconomics	3	EDU 251	Prof Educator Legal Ethical Issues	1
PED-1XX	P.E. Activity	1	EDU 260	Educ. & Cultural Diversity	3
TOTAL:		17	TOTAL:		18
Junior Fifth Semester		Hrs	Junior Sixth Semester		Hrs
EDU 317	Differentiated Instruction	3	EDU 316	Techniques of Teaching	3
EDU 270	Instructional Technology	3	EDU 420	Tchg. Rdg. in Content Area	3
EDU 322	Adol. Development	2	ACC 247	Prin. of Accounting II	3
PHI 304	Business Ethics	3	BED 312	Business Communications	3
ACC 246	Prin. of Accounting I	3	MKT	Prin. of Marketing	3
ART, MUS, SPT or ENG	Art, music, theater appreciation3 or literature	3	EDU 325	Assess & Data Driven	
TOTAL		17	TOTAL:		15
Senior Seventh Semester		Hrs	Senior Eighth Semester		Hrs
EDU 304	Practicum in Sec. Ed	2	EDU 474	Student Tchg. Grades 9-12	10
EDU 417B	M/M/O: Tchg. Business	3	EDU 475	Seminar in Student Teaching	2
EDU 435	Classroom Mgmt.	3			
BED 420	Implementing Bus Ed Programs	3			
BED 495	Coord.of Coop. Ed	3			
EDU 376	Adv. Instructional Technology3	3			
TOTAL:		17	TOTAL:		12
Total Required Hours -126					

ECONOMICS

Couse Description

Listed courses may not be taught every semester of every year. The department head and departmental advisors have information about projected course offerings for a semester/year.

- ECO 201 MACRO ECONOMICS.** (3, fa, sp, su). Measuring and explaining overall economic performance, money, interest rates, fiscal policy and monetary policy as an analytical core. The application of this core to a variety of current economic problems such as inflation and unemployment.
- ECO 202 MICRO ECONOMICS.** (3, fa, sp, su). Theory of consumer demand, theory of production costs, optimal output and pricing determination under conditions of competition and monopoly; allocation and pricing of resources.
- ECO 305 MONEY, CREDIT AND BANKING.** (3). Money and American banking system. Emphasis is placed on the role of money and interest rates and their impact on the U.S. economy. Analytical treatment of the Federal Reserve System and the banking industry. Prerequisite: ECO 201.
- ECO 310 ECONOMIC DEVELOPMENT.** (3). Problems of economic development of less developed countries. Analysis of public policy designed to promote economic development. Prerequisite: ECO 201-202.
- ECO 399 INDEPENDENT RESEARCH ON CURRENT ECONOMIC PROBLEMS.** (1-3). Students who have attained a grade of "B" or better in at least 15 hours of economics may pursue independent studies on a topic of their choice, subject to advisor approval.
- ECO 410 LABOR ECONOMICS.** (3). The determination of employment and wages in the U.S. economy. Topics include the demand and supply of labor, models of discrimination, economic problems of the wage earner in modern society, structure, policies, and problems of labor organizations. Prerequisite: ECO 202.
- ECO 414 MACROECONOMIC ANALYSIS.** (3). Theory of income, employment and price level determination. Theories of consumption, investment, money and portfolio balance. Fiscal and monetary policy to stabilize economic activity. Prerequisite: ECO 201.

- ECO 415 MANAGERIAL ECONOMICS.** (3). A study of microeconomic analysis and its application to business decision making, optimal output and pricing under various structures, consumer demand, production costs and strategic pricing. Optimal allocation of resources. Prerequisites: ECO 202; senior standing.
- ECO 420 INTERNATIONAL ECONOMICS.** (3). Survey of international economics. Basis for and effects of international trade, commercial policy and effects of trade restrictions, balance of payments and exchange rate determination, international monetary systems, gold standard, fixed rate and flexible rate systems. Prerequisite: ECO 201-202.
- ECO 428 HISTORY OF ECONOMIC THOUGHT.** (3). Survey of main ideas and major developments in economic thought from before Adam Smith through the Keynesian revolution. The interaction of economic events and the growth of economic ideas, as seen in classical, Marxian, neoclassical, institutionalism, and Keynesian theories. Connection of economic ideas with contemporary economic problems and policies. Prerequisite: ECO 201-202.
- ECO 432 QUANTITATIVE ECONOMICS AND ECONOMETRICS.**(3). Covers economic applications of functions, graphs, derivatives, regression, matrix algebra, calculus, dynamic models, the problem of uncertainty. Computer work will be part of the course. Prerequisite: Junior standing.
- ECO 434 BUSINESS FORECASTING.** (3). Provides both analytical techniques and insight into significant changes in the economy and a study of major business fluctuations. Includes an examination of basic forecasting tools and their applications to business situations.
- ECO 475 PUBLIC FINANCE.** (3). Principles and problems of government spending and taxation. Theory of public goods and externalities. Cost- benefit analysis. Analysis of specific expenditure, transfer, and regulatory programs. U.S. tax structure, income redistribution effects and efficiency in resource allocation. The topics will be related to current economic policy. Prerequisite: ECO 201- 202.
- ECO 495 SPECIAL TOPICS IN ECONOMICS.** (1-3) Topic to be listed in course schedule. May enroll again as topic changes.

MARKETING

Associate Professor

Duke, Linda
Logan, James

Mission

The Marketing program offered by the Department of Business prepares graduates for entry into domestic or international marketing positions, including industry, government and private entrepreneurship. The program exposes the graduates to a broad range of principles, theories, models, experiences and ethics of a business organization, which will enable graduates to succeed in their chosen field.

Degree Offered

Bachelor of Science in Marketing

Objectives

All students completing the B.S. in Marketing will:

1. Have an understanding of the concepts and theories underlying the operation and management of the marketing aspects of domestic or international business;
2. Have the technical, problem-solving, critical thinking, and computer skills necessary to perform successfully in industry, government, and private entrepreneurship;
3. Be able to successfully demonstrate the application of core competencies;
4. Compare favorably in knowledge and core competencies with students completing a similar program nationally;
5. Possess the necessary knowledge to pass the Major Field Assessment Test in Business;
6. Successfully demonstrate the ability to communicate effectively orally and in writing.

Assessment Program

Assessment measures enable the Marketing faculty to determine whether students have adequately satisfied program objectives. Through the use of lecture, case studies, and unstructured problems in performance-based courses, students can periodically review their performance and evaluate their progress. Primary emphasis will be placed on the major field Assessment Test in Business to be taken by students during their first and last semester. Test results will be included as part of the capstone course grade.

Other Assessment Measures:

1. Internships
2. Writing intensive courses in Management
3. Exit Interviews with graduating seniors
4. Follow-up surveys with employers

Computer Skills Requirement

Students majoring in the Marketing program will develop hands-on skills in the use of word processing, electronic spreadsheets and data base systems as they relate to accounting and other business related operations.

All majors will be required to take BED 208, or demonstrate a comparable skill level through a proficiency examination. This requirement must be met prior to completing the first 60 hours of work or within the first semester of transferring to Lincoln University, whichever is applicable.

Required Courses

General Education Requirements: A minimum grade of “C” is required in ECO 201 for Area 5 (Social and Behavioral Science), MAT 113 (Area 3), PHI 304 for Area 6 (Humanities and Fine Arts) and BAD 215 for Area 7 (International Cultural Diversity) for all baccalaureate programs in the Department of Business.

Core Requirements: A minimum grade of “C” in ACC 246-247; BAD 200, 275, 310, 350, 376; BED 208, 312; ECO 202; MKT 321.

Major Requirements: A minimum grade of “C” in BAD 101, 250, 490; MKT 309, 322, 326, 345, 415, 421; and 12 hours of approved MKT electives.

Minor: 18 hours with a minimum grade of “C” in MKT 309, 321, 322, 326, and 421; and 3 hours of approved MKT electives.

Course Descriptions

Listed courses may not be taught every semester or every year. The department head and departmental advisors have information about projected course offerings for a semester/year.

- MKT 309** **ADVERTISING PRINCIPLES.** (3, fa). Same as JOU 309. Economics, research, and strategy of selling through the mass media.
- MKT 321** **PRINCIPLES OF MARKETING.** (3, fa, sp). Institutions, functions, and problems involved in the transfer of goods from the producer to the consumer.
- MKT 322** **FUNDAMENTALS OF RETAILING.** (3, sp). How retail outlets operate to serve both the producer and the consumer of commodities. Prerequisite: MKT 321, or permission of instructor.
- MKT 326** **MARKETING MANAGEMENT.** (3, sp). A detailed analysis of the work of the distribution manager who plans, organizes, directs, and coordinates the activities of those in specialized aspects of marketing. Prerequisite: MKT 321.

- MKT 327 PHYSICAL DISTRIBUTION SYSTEMS.** (3,). Attention to developing and administering channel networks to coordinate demand and supply patterns and to optimize physical systems in terms of cost, services, and information feedback. Prerequisite: MKT 321
- MKT 345 CONSUMER BEHAVIOR.** (3, sp). Examines the influence of cultural, social, and psychological factors on the market process through behavioral science research. Prerequisite: MKT 321.
- MKT 407 MARKETING INTERNSHIP.** (3, fa, sp, su). Supervised practical instruction in a public or private organization along with an academic component monitored by faculty. Prerequisite: Junior or Senior standing and permission of the instructor.
- MKT 410 SOCIAL MEDIA MARKETING.** (3, fa, sp). This course examines how social media is fundamentally changing the way companies operate and how organizations can strategically use their social media tools to engage their audience in new and exciting ways.
- MKT 415 INTERNATIONAL MARKETING.** (3, fa). A study of the management of marketing functions and multinational firms. Major emphasis will be given to how international marketing differs from the domestic process. Prerequisite: MKT 321.
- MKT 421 MARKET RESEARCH AND DECISION MAKING.**(3, fa). The application of market research to decision making.
- MKT 495/ SPECIAL TOPICS.** (1-3). Topic to be listed in course schedule.
497 May enroll again as topic changes.

PUBLIC ADMINISTRATION

Professor

Edoho, Felix

Ike, Roberto

Mission

The Public Administration program offered by the Department of Business prepares graduates for employment with federal, state and local governments, voluntary agencies, and industry. The program exposes the graduates to a broad range of principles, theories, models, experiences, and ethics of public service, which will enable graduates to succeed in their chosen field.

Degree Offered

Bachelor of Science in Public Administration

Objectives

All students completing the B.S. in Public Administration will:

1. Have an understanding of the concepts and theories underlying the operation and management of federal, state, and local governmental agencies;
2. Have the technical, problem-solving, critical thinking, and computer skills necessary to perform successfully in public service;
3. Be able to successfully demonstrate the application of core competencies;
4. Compare favorably in knowledge and core competencies with students completing a similar program nationally;
5. Possess the necessary knowledge to pass the Major Field Assessment Test in Business;
6. Successfully demonstrate the ability to communicate effectively through the written media.

Assessment Program

Assessment measures enable the Public Administration faculty to determine whether students have adequately satisfied program objectives. Through the use of lecture, case studies, and unstructured problems in performance-based courses, students can periodically review their performance and evaluate their progress. Primary emphasis will be placed on the major field assessment Test in Business to be taken by students during their first and last semester. Test results will be included as part of the capstone course grade.

Other Assessment Measurers:

1. Internships
2. Writing Intensive courses in Management and Business Communication
3. Exit Interviews with graduating seniors
4. Follow-up surveys with employers

Computer Skills Requirement

Students majoring in the Public Administration program develop hands-on skills in the use of word processing, electronic spreadsheets and data base systems as they relate to accounting and other business-related operations.

All majors will be required to take BED 208 or demonstrate a comparable skill level through a proficiency examination. This requirement must be met prior to completing the first 60 hours of work or within the first semester of transferring to Lincoln University, whichever is applicable.

Required Courses

General Education Requirements: A minimum grade of “C” is required in ECO 201 for Area 5 (Social and Behavioral Science), MAT 113 (Area 3), PHI 304 for Area 6 (Humanities and Fine Arts), and BAD 215 for Area 7 (International Cultural Diversity) for all baccalaureate programs in the Department of Business.

Core Requirements: A minimum grade of “C” in ACC 246-247; BAD 200, 275, 310, 350, 376; BED 201, 208 or CS 105, BED 312; ECO 202; MKT 321.

Major Requirements: A minimum grade of “C” in BAD 101, 250, 490; PAD 310, 338, 401, 402, 404, 407, 441, 451, 475; and 3 hours of PAD electives.

Note: see **Legal Studies** for minor requirements

Course Descriptions

Listed courses may not be taught every semester or every year. The department head and departmental advisors have information about projected course offerings for a semester/year.

- PAD 310 PRINCIPLES OF PUBLIC ADMINISTRATION.** (3, sp, odd). Same as PSC 310. Prerequisite: BAD 101.
- PAD 315 MANAGEMENT OF NON-PROFIT ORGANIZATIONS.** (3, fa, odd). Management of public service organizations and government agencies; special focus on problems of monitoring, controlling and delivering services and on performance evaluation.
- PAD 325 URBAN MANAGEMENT.** (3, fa). Examination of the economic and political environment of urban management; problems of program planning and policy development; managerial techniques of dealing with emerging problems in the urban community.
- PAD 338 HUMAN RESOURCE MANAGEMENT.** (3, fa, sp). Same as BAD 338. Prerequisite: BAD 310.
- PAD 401 PUBLIC POLICY PROCESS AND ANALYSIS.** (3, fa). Focuses on the process of public decision-making and the development of capabilities to analyze those processes.

- PAD 402 MODERN SOCIAL ORGANIZATIONS.** (3, sp). Same as SOC 402.
- PAD 404 INTERGOVERNMENTAL RELATIONS.** (3, fa). Assesses the impacts and consequences of shifts in the administration of intergovernmental policies and programs. Examines legislation, roles, and the responsibilities of federal, state, regional and local systems.
- PAD 405 GOVERNMENT AND BUSINESS.** (3, sp). Same as BAD 405.
- PAD 407 PUBLIC ADMINISTRATION INTERNSHIP.** (3, fa, sp, su). Supervised practical instruction in agencies concerned with public issues and the implementation of public policies. Prerequisite: Senior standing or permission of instructor.
- PAD 410 ORGANIZATIONAL PSYCHOLOGY.** (3, sp). Same as PSY 410.
- PAD 418 ADMINISTRATIVE LEADERSHIP.** (3, sp). Examination of problems of leadership within the context of diverse organizations; application of approaches to solving problems in leadership; comparison of leadership processes with respect to their effectiveness.
- PAD 441 GOVERNMENTAL ACCOUNTING.** (3, fa). Same as ACC 441.
- PAD 451 ORGANIZATIONAL THEORY AND BEHAVIOR.** (3, fa, sp, su). Same as BAD 451. Study of various organizational structures, models, and supporting theory; organizations as complex systems; organizational behavior, individual and group dynamics in business environments; organizational development and change. Prerequisite: BAD 310.
- PAD 463 COLLECTIVE BARGAINING IN PUBLIC EMPLOYMENT.** (3, fa). History and current status of collective bargaining practices and governmental policies in the public sector; public policy at federal, state, and local levels in employee relations.
- PAD 475 PUBLIC FINANCE.** (3, fa). Principles and problems of government spending and taxation. Theory of public goods and externalities. Cost- benefit analysis. Analysis of specific expenditure, transfer, and regulatory programs. U.S. tax structure, income redistribution effects and efficiency in resource allocation. The topics will be related to current economic policy. Prerequisite: ECO 201- 202.

PAD 495/497 SPECIAL TOPICS IN PUBLIC ADMINISTRATION (3, sp). In-depth investigation of key policy areas and the administration of such policies; focus on application of research techniques to policy analysis and of managerial techniques to administration of public policies.

Education Course Descriptions

Listed courses may not be taught every semester or every year. Consult your advisor about projected course offerings.

EDU 202 OBSERVATIONS IN EDUCATION. (1). The student will develop an awareness of teaching methods and strategies, classroom organization and management, differences in age levels and individual differences through observation of multicultural classrooms. A lab component of hours of observations will be completed. Prerequisite: Should be taken concurrently with EDU 204 and SE 221.

EDU 204 EDUCATIONAL PSYCHOLOGY. (3). Application of psycho-logical concepts to school situations including the principles of learning, motivation, and self-development. Both the typical and atypical student are studied at school levels from pre-kindergarten through high school. This course is designated writing intensive. Prerequisite: PSY 101 and should be taken concurrently with EDU 202 and SE 221.

EDU 251 PROFESSIONAL EDUCATOR LEGAL & ETHICAL ISSUES. (3). A study of the legal, historical, philosophical, and sociological foundations of education, including multicultural education, and an in-depth study of the operation, management and control of schools today. Prerequisite: ENG 101 EDU 204 Education Psychology and SE 221 Education of the Exceptional Child.

EDU 256 LITERATURE FOR CHILDREN AND ADOLESCENTS. (3). Focus of the course will be on choosing quality literature for classroom use, effective strategies for teaching with literature and emphasizing life-longreading with students. Appropriate award winning literature for elementary and secondary students will be examined. (Meets requirements for EDU 280 and middle school certification.)

EDU 260 EDUCATION AND CULTURAL DIVERSITY. (3). This course is open to students interested in the connections between the global institution of education and the complex nature of cultural diversity. (Partially fulfills the cultural diversity requirement for General Education.)

- EDU 270 INSTRUCTIONAL TECHNOLOGY. (3).** This class is designed to make students proficient in various forms of media technology to include desktop publishing, webpage design, and electronic presentation.
- EDU 276 OBSERVATION AND ASSESSMENT IN EARLY CHILDHOOD EDUCATION. (3).** Students will study a wide variety of appropriate assessments for young children. Emphasis will be placed on areas such as language development, perceptual and motor development, and general readiness for school. Students will observe and assess children from infant to third grade for 30 hours.
- EDU 280 EARLY LITERACY AND YOUNG CHILDREN'S LITERATURE. (3).** Focus will be placed on developing literacy in young children including inquiry, logical and critical thinking, creative expressions; interpersonal relationships; and other communication skill development. Literature appropriate for young children will be explored.
- EDU 285 PROGRAM MANAGEMENT IN EARLY CHILDHOOD EDUCATION. (3).** Students will study appropriate learning environments, strategies for effective instruction and management techniques for young children. Program management including fiscal management, staffing, evaluating and communication will be included.
- EDU 302 PRACTICUM IN ELEMENTARY EDUCATION. (1).** Elementary Education candidates work as paraprofessionals in multicultural classroom settings. Evaluations will be made by the classroom teacher and the University supervisor. May be repeated for additional credit. Prerequisite: Admission to the Teacher Education Program.
- EDU 304 PRACTICUM IN SECONDARY EDUCATION FOR 7-12 STUDENTS. (2).** Secondary education candidates will complete 45 hours of clinical practice with a cooperating teacher learning the essentials of managing and teaching an effective classroom. Evaluation will be made by the cooperating teacher and the University supervisor. May be repeated for additional credit. Prerequisite: Admission to the Teacher Education Program. Corequisite: EDU 417.

- EDU 305 PRACTICUM IN SECONDARY EDUCATION FOR K-12 STUDENTS.** (2). Art, music, and physical education candidates will complete 45 hours of clinical practice
- EDU 315 TEACHING MATHEMATICS IN THE ELEMENTARY.** (4). A course covering the mathematical concepts developed from pre-kindergarten to beginning algebra.
- EDU 316 TECHNIQUES OF TEACHING.** (3). A study of instructional planning, methods of developing instructional materials, classroom organization and control, cultural differences, and evaluation in teaching. Prerequisite: Completion of EDU 204 Educational Psychology with a grade of C or better.
- EDU 317 DIFFERENTIATED INSTRUCTION.** (3). Exploration of research-based instructional methods and strategies to meet the varied needs of all learners in today's classrooms including English language learners, students with disabilities, and students with a variety of learning styles and interest.
- EDU 321 PSYCHOLOGICAL DEVELOPMENT OF THE CHILD AND ADOLESCENT - ELEMENTARY.** (3). A study of the biosocial, cognitive, physical, emotional, and intellectual development of the child from conception through adolescence. The focus of this course will be the elementary and special education child. Prerequisite: EDU 204.
- EDU 322 PSYCHOLOGICAL DEVELOPMENT OF THE CHILD AND ADOLESCENT - SECONDARY.** (3). A study of the biosocial, cognitive, physical, emotional, and intellectual development of the child through adolescence. The focus of this course will be the secondary child. Prerequisite: EDU 204.
- EDU 323 TEACHING WRITING WORKSHOP.** (2). Instructional strategies and curriculum materials appropriate for teaching writing workshop in the literacy program of the elementary grades. This course is designated writing intensive. Prerequisite: Admission to the Teacher Education Program. Concurrent enrollment in EDU 418 and EDU 424 required.
- EDU 324 INSTRUCTIONAL STRATEGIES IN CONTENT LITERACY: SOCIAL STUDIES.** (3). A methods course covering Social Studies concepts appropriate to the elementary child. Prerequisite: Admission to Teacher Education Program.
- EDU 325 ASSESSMENT FOR EDUCATORS** (3). The focus of this class is on the practical classroom assessment skills future teachers need for decision- making about student learning. Students will learn to develop, implement, and evaluate student progress based on assessment techniques.

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- EDU 376 ADVANCED INSTRUCTIONAL TECHNOLOGY. (3).**
Students will review skills acquired in EDU 270-Instructional Technology. During this review, students will develop advanced skills in desktop publishing, using digital video in PowerPoint presentations, and creating websites using Macromedia Dreamweaver. Prerequisite: EDU 270 or permission of instructor.
- EDU 416 READING AND WRITING IN THE MIDDLE SCHOOL. (4).** Provides students with models and techniques for helping adolescent students communicate effectively through reading and writing across the curriculum. Persons seeking certification as high school English teachers may take this course in lieu of EDU 255. It is recommended that students take this course after or concurrent with EDU 420.
- EDU 417A MATERIALS, METHODS, AND OBSERVATIONS IN TEACHING ART (2).** A course in methods, materials, correlation and technical problems in the teaching of art in secondary schools. Prerequisite: Permission of instructor.
- EDU 417B MATERIALS, METHODS, AND OBSERVATIONS IN TEACHING SECONDARY BUSINESS SUBJECTS. (3).** A course surveying the history, content, organization, administration and methods of teaching business education on the secondary level. Prerequisite: EDU 316 and admission to Teacher Education Program.
- EDU 417E MATERIALS, METHODS, AND OBSERVATION IN TEACHING ENGLISH. (3).** A course involving research in the various methods of teaching English in the middle and high school and the materials used. Prerequisite: Admission to Teacher Education Program.
- EDU 417H MATERIALS, METHODS AND OBSERVATIONS IN HEALTH EDUCATION. (3).** The course will include the study, observation, and practice of teaching methods for health and personal safety in the school and/or community setting. Students are required to complete a 30-hour clinical/observation experience in a health education setting. Prerequisite: at least sophomore standing, and permission of the instructor.

EDU 417M MATERIALS, METHODS AND OBSERVATION IN TEACHING MATHEMATICS. (2). This course deals with the problems and methods of teaching middle and high school mathematics. Prerequisite: Admission to Teacher Education Program.

EDU 417P MATERIALS, METHODS AND OBSERVATION IN TEACHING PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL. (3). The course will include the study, observation, and practice of elementary physical education teaching methods. Students are required to complete a 30-hour clinical/observation experience in an elementary school setting. Prerequisite: Grade of "C" or better in PEP 200, at least sophomore standing, and be a Physical Education major.

EDU 417Q MATERIALS, METHODS AND OBSERVATIONS IN TEACHING PHYSICAL EDUCATION IN THE SECONDARY SCHOOL. (3). *The course will include the study, observation, and practice of secondary physical education teaching methods. Students are required to complete a 30-hour clinical/observation experience in a secondary school setting. Prerequisite: Grade of "C" or better in PEP 200, at least sophomore standing, and be a Physical Education major.*

EDU 417S MATERIALS, METHODS AND OBSERVATION IN TEACHING SCIENCE. (2). The principles and techniques of teaching science in middle and high school are studied through hands-on and minds-on strategies. Prerequisite: Admission to Teacher Education Program.

EDU 417T MATERIALS, METHODS AND OBSERVATION IN TEACHING SOCIAL SCIENCE. (2). This course deals with problems of teaching social science in middle and high school. Prerequisite: Admission to Teacher Education Program.

EDU 418 LITERACY INSTRUCTION IN ELEMENTARY GRADES. (4). Current theories of literacy development and instructional implications for teaching reading and language arts. Prerequisite: Admission to Teacher Education Program. Concurrent enrollment in EDU 323 and EDU 424 required.

EDU 420 TECHNIQUES OF TEACHING READING IN THE CONTENT FIELDS. (3). Assists middle school and secondary students in understanding and incorporating reading theory and practice to teach and evaluate student learning across the curriculum. Prerequisite: Admission to Teacher Education Program.

EDU 423 INSTRUCTIONAL STRATEGIES IN CONTENT LITERACY: SCIENCE. (3). The method of teaching science literacy via inquiry to prepare scientifically literate future citizens. Prerequisite: Admission to Teacher Education Program.

EDU 424 PRACTICUM IN READING AND LANGUAGE ARTS. (2). Practicum in elementary classrooms focused on children's literacy development and the organization and management of reading and language arts instruction. Prerequisite: Admission to the Teacher Education Program. Concurrent enrollment in EDU 323 and EDU 418 required.

EDU 425 ASSESSMENT FOR DIFFERENTIATED INSTRUCTION IN REA
Education Program.

EDU 427 ASSESSMENT AND DIFFERENTIATED INSTRUCTION IN MATH (3). Understanding the principles of formative and summative assessment, different assessment strategies for classroom use, test construction, rubrics, alternative assessments, as well as standardized test information in the area of Mathematics. Prerequisite: EDU 315

EDU 435 CLASSROOM MANAGEMENT. (3). Provides pre-service and in-service teachers with an overview of classroom management and behavior management theories and appropriate classroom practices. Prerequisite: Admission to Teacher Education Program.

EDU 451 TECHNOLOGY FOR ALL I. (3). In this course, students will be introduced to current technologies used in the teaching and learning process. Students will gain a basic understanding of concepts related to desktop publishing, web page design, Smart Notebook lessons designed for Smart Boards, and other relevant technologies through a hands on approach. Students will CREATE artifacts related to, but not limited to: Web Page Design, Visual Literacy, Desktop Publishing, Smart Board, Use and Smart Notebook Design, and Technology Infused Lesson Design

- EDU 452 TECHNOLOGY FOR ALL II.** (3). In this course, students will engage in hands on activities related to current technologies in the teaching and learning process. Students will use various programs to create interactive, and engaging artifacts for the active teacher and learner. Students will create artifacts related to, but not limited to: Web Page Design, Interactive, Storytelling, Blogs, Podcasts, Interactive e-Poster – *Glogster*, Interactive Lesson Design - Sway and Nearpod, Google Apps, Advanced Use of the Smart Board, and Internet Safety - Digital Citizenship
- EDU 453 eMINTS III.** (3). This course will focus on developing webquests, online projects, communication arts, constructivist lesson plans.
- EDU 454 DIGITAL STORYTELLING.** (3). In this course, students will engage in digital storytelling through photography, interactive posters, podcasts, and movie making. Through this process students will think critically, logically, and personally about meaningful and impactful stories in their lives. Students will create artifacts related to, but not limited to: Script, Writing, Creating storyboards, Visual Literacy, Podcast production through *Audacity* or other free audio production programs, and Movie production through *Shortcut* or other free movie making programs using Google Drawings to create a poster
- EDU 456 DIGITAL PHOTOGRAPHY.** (3). In this course, students will engage in discovering photographic techniques that underlie effective photography. With this skillset, students will create digital photographs on various topics. Students will provide feedback on their own photos and other students' photos throughout the class. In the culminating project, students will create a web site highlighting their best work throughout the course. Students will create artifacts related to, but not limited to: Basic photographic techniques, Analysis of photos, Creating digital photos, Resolution (Quality) of images, Using *WIX* to create a digital photography portfolio, and Basic photo manipulation through *Photoscape*, or other free graphics programs
- EDU 457 SPECIAL TOPICS IN EDUCATION.** (1-5). The study of any educational topic not otherwise included in the curriculum upon expression of mutual interest by students and faculty. (May be taken more than once.)
- EDU 458 EDUCATION ASSESSMENT PREPARATION.** (1-3). This course is designed to prepare education students for success in passing the required assessments for DESE teacher certification. This class will offer preparation for the MOGE and the MOCA (MEGA) assessments. (May be taken more than once.)

- EDU 460 MIDDLE SCHOOL FOUNDATIONS (PHILOSOPHY, ORGANIZATION AND CURRICULUM).** (4). Provides theoretical background and practical instruction in understanding the nature of the early adolescent learner, and the philosophy, organizations, and overall curriculum of a middle school program.
- EDU 471 STUDENT TEACHING IN GRADES 1-3.** (5, 6, 8, 10). Planning, organizing, and teaching students in grades 1-3 under the supervision of the classroom teachers and University supervisor. To be taken concurrently with EDU 475. Prerequisite: Admission to Teacher Education Program.
- EDU 472 STUDENT TEACHING IN GRADES 4-6.** (5, 6, 8, 10). Planning, organizing, and teaching students in grades 4-6 under the supervision of the classroom teachers and University supervisor. To be taken concurrently with EDU 475. Prerequisite: Admission to Teacher Education Program.
- EDU 473 STUDENT TEACHING IN GRADES 6-9.** (5, 6, 8, 10). Planning, organizing, and teaching students in grades 6-9 under the supervision of the classroom teachers and University supervisor. To be taken concurrently with EDU 475. Prerequisite: Admission to Teacher Education Program.
- EDU 474 STUDENT TEACHING IN GRADES 9-12.** (5, 6, 8, 10). Planning, organizing, and teaching students in grades 9-12 under the supervision of the classroom teachers and University supervisor. To be taken concurrently with EDU 475. Prerequisite: Admission to Teacher Education Program.
- EDU 475 SEMINAR IN STUDENT TEACHING.** (2). An orientation to student teaching through a seminar providing extensive study of problems and topics associated with the teaching experience. Prerequisite: Admission to Teacher Education Program.
- EDU 476 STUDENT TEACHING IN THE ELEMENTARY SCHOOL.** (5, 6, 8, 10). Planning, organizing and teaching students in grades K-6 under the supervision of the classroom teachers and University supervisor. This course is for those majoring in Art, Music, or Physical Education who are receiving K-12 certification. To be taken concurrently with EDU 475. Prerequisite: Admission to Teacher Education Program.
- EDU 477 STUDENT TEACHING IN THE SECONDARY SCHOOL.** (5, 6, 8, 10). Planning, organizing and teaching students in grades 7-12 under the supervision of the classroom teachers and University supervisor. This course is for those majoring in Art, Music or Physical Education who are receiving K-12 certification. To be taken concurrently with EDU 475. Prerequisite: Admission to Teacher Education Program.

- EDU 478 CHILD ADVOCACY II: PROFESSIONAL AND SYSTEM RESPONSES TO CHILD MALTREATMENT.** (3). This course is focused on the responses of professionals to allegations of child maltreatment. The purpose of this course is to expand the student's knowledge and skills in identifying, investigation and prosecuting child maltreatment. Students majoring in criminal justice, education, social work, sociology, psychology, nursing and other areas where knowledge of child maltreatment investigation and advocacy are necessary will receive competency based skills training such as an awareness of forensic interviewing, documentation, etc.
- EDU 480 PRACTICAL PUBLICATIONS.** (3). This class will focus on creating a constructionist lesson plan aligned with MOSTEP and ISTE standards that includes a webquest, an interactive PowerPoint show, and a detailed poster using Adobe Photoshop.
- EDU 481 EDUCATIONAL USES OF THE INTERNET.** (3). Exploration of the ways the Internet can be utilized in classroom settings. Focus will be on ways the Internet can provide tools for communication, inquiry, and construction.
- EDU 482 APPLICATIONS IN DISTANCE LEARNING.** (3). This class will explore the many ways of creating and delivering online courses.
- EDU 488 GRANT WRITING TECHNIQUES.** (3). The purpose of this hybrid course is to help students acquire essential skills on the background and power of writing grant proposals for discretionary/ competitive competitions.
- SE 153 PRACTICUM IN SPECIAL EDUCATION.** (1). Student assists a teacher in special education classroom. By special education advisor's permission only. May be repeated for additional credit.
- SE 154 PRACTICUM IN SPECIAL EDUCATION.** (2). Student works with a teacher and students in a in special education classroom. May be used as an elective course. By special education advisor's permission only. May be repeated for additional credit.
- SE 221 EDUCATION OF EXCEPTIONAL CHILDREN.** (3). Identifying the major laws governing public schools and how they affect the special education population Should be taken concurrently with EDU 202 and EDU 204.
- SE 350 LANGUAGE ACQUISITION/ELL** (3). A course which explores the acquisition and development of language in young children. Both typical and exceptional development are considered. Prerequisites: EDU 202, SE 221.

- SE 404 EVALUATION OF ABILITIES AND ACHIEVEMENT. (3).** Introduction to statistical terminology and diagnostic requirements prescribed by law for identifying students with disabilities. Student becomes proficient in use and interpretation of diagnostic tests. Prerequisites: EDU 204 and SE 221.
- SE 408 READING ASSESSMENT AND INTERVENTION FOR EXCEPTIONAL STUDENTS. (3).** A study of the methods, techniques and materials to be used in teaching reading to learners with significant reading difficulties, including awareness of multicultural issues. Prerequisites: EDU 418, EDU 424 and admission to Teacher Education Program.
- SE 409 TEACHING MATH TO EXCEPTIONAL STUDENTS. (1).** A consideration of the cognitive, psychomotor, physical, sensory, social and emotional factors influencing students with mental retardation and/or learning disabilities as they relate to mathematics instruction. Instructional strategies for implementation will be addressed. Student should enroll in SE 452 Advanced Practicum concurrently. Prerequisite: Admission to Teacher Education Program.
- SE 410 CONSULTATION AND COUNSELING TECHNIQUES FOR TEACHERS. (3).** Selected family-educator interaction models; principles of interviewing and conferencing, problem-solving models, and techniques for collaboration. Prerequisites: EDU 202, SE 221.
- SE 411 METHODS AND MATERIALS: MILD/MODERATE DISABILITIES. (3).** Current techniques and materials for teaching students who have mild to moderate disabilities. Students should be concurrently enrolled in SE 451 Advanced Practicum or have instructor's permission to waive practicum. Prerequisite: Admission to Teacher Education Program.
- SE 412 CAREER EDUCATION/TRANSITION. (3).** Roles and responsibilities; legislative requirements; transition components; assessment, development and implementation of functional curricula K-12. Emphasis on accessing the general curriculum through functional academics including science, social studies, and economics. Prerequisites: EDU 202, SE 221.
- SE 413 INTRODUCTION TO CROSS CATEGORICAL. (3).** Study of the Characteristics of individuals with learning disabilities, intellectual disabilities, emotional/behavioral disabilities; health impairments and orthopedic impairments. Prerequisites: EDU 202, SE 221.
- SE 414 SPECIAL EDUCATION PROCESS. (3)** This course will focus on the legal aspects of the Individuals with Disabilities Education Act (IDEA) from Referral through Graduation, including Evaluation and Transition. It will help prepare special educators to participate in the special education process in the state of MO.

- SE 415** **CONTENT METHODS FOR THE SPECIAL EDUCATOR. (3)**
This course will focus on differentiating instruction and modifications within the content areas, specifically focused in science and social studies. Instruction will focus on teaching vocabulary and reading in the content areas.
- SE 432** **CLASSROOM BEHAVIOR MANAGEMENT PRINCIPLES AND TECHNIQUES. (3).** This course will address the principles and techniques for addressing whole classroom behavior management and individualized classroom management to effect positive behavior change through an educational approach will be . Prerequisite: Admission to Teacher Education Program.
- SE 438/439** **SEMINAR IN SPECIAL EDUCATION TOPICS. (1-3).** Discussion of current practices that relate to the education of exceptional children. (May be repeated as the topics change.)
- SE 450** **ADVANCED PRACTICUM IN SPECIAL EDUCATION. (1-2).** Students work in a special education setting. Prerequisite: Permission of instructor.
- SE 451** **ADVANCED PRACTICUM IN METHODS AND MATERIALS FOR MILD/MODERATE DISABILITIES. (1).** Student works in selected special education settings under supervision of University instructor for SE 411. Methods discussed and materials developed in the course will be practiced and used at the practicum site. Prerequisite: Admission to Teacher Education Program and concurrent enrollment in SE 411.
- SE 452** **ADVANCED PRACTICUM IN MATH FOR EXCEPTIONAL LEARNERS. (1).** Should be taken concurrently with SE 409. Student serves as teacher's aide in selected special education classrooms under supervision of University instructor for SE 409. Materials and methods discussed and developed in SE 409 will be practiced and used at the practicum site. Prerequisite: Admission to Teacher Education Program and concurrent enrollment in SE 409.
- SE 493** **STUDENT TEACHING K-12 MILD/MODERATE CROSS-CATEGORICAL. (10)** Planning, organizing and teaching students with disabilities in a K-12 setting under the direction of a certified teacher. Prerequisite: Admission to Teacher Education Program and concurrent enrollment in EDU 475.
- SE 499** **DIRECTED TEACHING - SPECIAL EDUCATION. (10, on demand).** May be in as many as 3 different settings and may be repeated up to 15

- PED 111 PERSONAL AND COMMUNITY HEALTH.** (2). Promotes positive attitudes, habits, values, and behaviors that lead to efficient and healthy living. Students will develop an understanding of why and how to promote healthy lifestyles. Community health programs and resources will be explored.
- PED 103 MILITARY PHYSICAL FITNESS TRAINING.** (1). Designed to improve overall physical fitness and wellness of participants. To include but not limited to strength training, running, swimming, foot marching with pack, and team sports events.
- PED 120 HIGH/LOW IMPACT AEROBICS.** (1). The development of an individualized cardiovascular fitness program through movement exploration and dance activities.
- PED 121 STEP AEROBICS.** (1). The development of an individualized cardiovascular fitness program through movement exploration and dance activities utilizing steps.
- PED 122 MODERN DANCE.** (1). An introduction to basic dance techniques and the kinesthetic awareness of body position and action through body placement.
- PED 123 WEIGHT TRAINING.** (1). Fundamentals and practice of resistance exercise techniques as employed for development of muscular strength and endurance.
- PED 124 WALKING.** (1). Attainment of optimum physical fitness through walking programs. An introduction to walking as a mode of promoting physical fitness to include fitness concepts.
- PED 126 JOGGING/RUNNING.** (1). Attainment of optimum physical fitness through jogging/running programs.
- PED 127 FITNESS ACTIVITIES.** (1). Development/maintenance of optimum physical fitness through a variety of vigorous activities. To include but not limited to weight training, continuous games/sports, aerobic dance, power walking, jogging/running, etc.
- PED 140 TOPICS IN FITNESS ACTIVITIES.** (1). Any fitness activity not otherwise included in the curriculum upon expression of mutual interest by students and faculty.
- PED 150 SWIMMING.** (1). For non-swimmers. Emphasis on personal adjustment to the water, basic strokes and fundamentals of watersafety.
- PED 151 FOLK, SOCIAL, AND SQUARE DANCE.** (1). Beginning study of folk, social, and square dance through participation.

- PED 152 CYCLING.** (1). Attainment of fitness through cycling. Introduction to bicycle touring and racing. Course will utilize multi-gear bicycles. Students must supply their own bicycles.
- PED 154 GOLF.** (1). Designed for the beginner. Study and practice in the fundamentals of golf.
- PED 155 ICE SKATING.** (1). Designed for the beginner. An introduction to the fundamentals of ice skating.
- PED 156 BACKPACKING.** (1). An introduction to the general concepts of backpacking and outdoor education with emphasis on hiking.
- PED 157 BADMINTON/RACQUETBALL.** (1). Introduction to the skills, strategies, and fundamentals of badminton and racquetball.
- PED 158 PICKLEBALL/TENNIS.** (1). Introduction to the skills, strategies, and fundamentals of pickleball and tennis.
- PED 160 BOWLING.** (1). Introduction to the skills, strategies, and techniques of bowling.
- PEP 200 FOUNDATIONS OF PHYSICAL EDUCATION AND WELLNESS.** (3). Introduction to the history, principles, and philosophy of physical fitness, kinesiology, and sport. The course will include the study of kinesiology, wellness, physical education and the practice of leadership activities that promote physical fitness and sport.
- PEP 201 NUTRITION, FITNESS AND CONDITIONING.** (3). Introduction to theories, concepts, principles, assessments, modes, and training techniques underlying the development of fitness and wellness programs. Emphasizes the role of fitness in school physical education and wellness programs. A practical component is included in the course
- PEP 205 CPR/SAFETY AND FIRST AID.** (2). Introduction to the knowledge and techniques needed in emergency situations including CPR, first aid, AED, injuries and illnesses. Lab component meets the requirement for American Red Cross certification for First Aid and Adult CPR.
- PEP 210 PHYSICAL EDUCATION FOR THE ELEMENTARY CLASSROOM TEACHER.** (1). An introduction to developmentally appropriate physical education for students majoring in elementary education and special education. Includes basic content and pedagogical techniques in physical education. Must be taken concurrently with EDU 210.

- PEP 301 KINESIOLOGY.** (3). Investigation of the mechanics, structure, and function of human motion. Emphasis placed on analysis of movement as it relates to physical activity and skill performance. Prerequisite: a science course. Prerequisite: Grade of “C” or better in BIO 103/104L.
- PEP 307 PSYCHOLOGICAL/SOCIOLOGICAL ASPECTS OF PHYSICAL EDUCATION.** (3). Assists Physical Education students to understand the psychological and sociological aspects and their effects on human performance and communities as they relate to physical education and athletics. Prerequisites: Grade of “C” or better in PEP 200.
- PEP 312 MOTOR LEARNING.** (2). Introduction to principles related to the teaching, learning and performance of motor skills. Emphasis is on the application of this knowledge to teaching and learning strategies for motor skill acquisition.
- PEP 320 ASSESSMENT IN PHYSICAL EDUCATION.** (3) This course will provide theoretical and practical information and experience for the development and implementation of assessments used in the physical education in K-12 schools and used in various fitness and coaching settings. Prerequisites: grade of “C” or better in PEP 200 & PEP 201.
- PEP 350 BASIC PHYSICAL EDUCATION METHODOLOGY.** (1). Introduction to the methodology for the instruction of physical education in a K-12 setting. Prerequisite: Grade of “C” or better in PEP 200, at least sophomore standing. Must be taken concurrently with PEP 406
- PEP 360 EXERCISE PHYSIOLOGY.** (3). A study of cardiovascular, pulmonary and muscular systems as they relate to dynamics of exercise. Prerequisite: Grade of “C” or better in BIO 103/104L & PE 201.
- PEP 365 TOPICS IN COACHING.** (2). Methods of teaching skills and conducting practices, and organization and preparation for competition in selected sports. Offered upon expression of mutual interest by students and faculty.
- PEP 372 INSTRUCTION AND ANALYSIS IN MOVEMENTS & RYTHMS.** (3). Future physical educators will acquire fundamental knowledge and skills for planning and teaching rhythms, games, tumbling, and other developmentally appropriate movement activities for elementary school. Students are required to complete a 20-hour clinical/observation experience in an approved K-12 setting. Prerequisite: Grade of “C” or better in PEP 200, at least sophomore standing.

- PEP 378 INSTRUCTION AND ANALYSIS IN LIFETIME ACTIVITIES AND DANCE (3).** Future Physical Education educators will develop content and pedagogical skills and knowledge in Lifetime Activities and Dance. Students will also develop the skills and knowledge essential for teaching, analyzing, and developing students' ability in the activities and dance. This course will include terminology, etiquette, techniques, and strategies for each activity and dance. Prerequisite: Grade of "C" or better in PEP 200, at least sophomore standing.
- PEP 379 INSTRUCTION AND ANALYSIS OF INDIVIDUAL AND TEAM SPORTS (3).** Future Physical Education educators will develop content and pedagogical skills and knowledge in individual and team sports. Students will also develop the skills and knowledge essential for teaching, analyzing, and developing students' ability in individual and team sports. This course will include rules, terminology, drills, and strategies of each sport. Includes a 10-hour observation in an approved coaching setting. Prerequisite: Grade of "C" or better in PEP 200, at least sophomore standing.
- PEP 380 CARE OF ACTIVITY/SPORT INJURIES – UPPER BODY. (2).** Provides knowledge and skill techniques in the history and examination of sports injuries that occur in the upper extremity. Students will acquire knowledge of common sports injuries and be able to briefly examine these injuries based on history and injury pathology. A 20-hour practical observation is required in this course.
- PEP 381 CARE OF ACTIVITY/SPORT INJURIES – LOWER BODY. (2).** Provides knowledge and skill techniques in the history and examination of sports injuries that occur in the lower extremity. Students will acquire knowledge of common sports injuries and be able to briefly examine these injuries based on history and injury pathology. A 20-hour practical observation is required in this course.
- PEP 406 CURRICULUM DESIGN IN PHYSICAL EDUCATION. (2)** Introduction to curriculum development and program design of a comprehensive K-12 setting for physical education. (Writing Intensive). Prerequisite: Grade of "C" or better in PEP 200, EDU 417 P or Q, at least sophomore standing. Must be taken concurrently with PEP 350.
- PEP 410 PHYSICAL EDUCATION STANDARDS, LAW AND MANAGEMENT. (3).** Introduction to standards, laws and management for the Physical Education Teacher. Prepares Physical Education Teacher Education candidates to successfully complete Teacher Education portfolio requirements. Grade of "C" or better in PEP 200, at least junior standing.

- PEP 417 MATERIALS, METHODS AND OBSERVATION IN COACHING.** (3). The course will include the study, observation, and practice of physical education teaching and coaching methods. Students are required to complete a 20-hour clinical/observation experience in an approved coaching setting. Prerequisite: Grade of “C” or better in PEP 200, at least sophomore standing, and be a Wellness major or a Physical Education minor.
- PEP 420 ADAPTED PHYSICAL EDUCATION.** (3). Designed to prepare physical education generalists with knowledge and skills needed to plan and implement appropriate physical education programs for individuals having special needs. Students are required to complete a 20-hour clinical/observation experience in an approved adapted setting. Prerequisites: grade of “C” or better in PEP 200, PEP 201, and PEP 312.
- PEP 480 SPECIAL TOPICS IN PHYSICAL EDUCATION AND WELLNESS.** (2). Provides professional physical education and wellness students with courses which will provide research into current issues and trends in the area of physical education and wellness.

Undergraduate Education Minor Programs

NOTE: All program requirements are subject to change at the discretion of the Missouri Department of Elementary and Secondary Education.

The School of Education offers Minor Programs of Study in Elementary Education, Special Education, Physical Education, and Health Education to students majoring in a field other than Education. Elementary, Secondary, and Special Education minors requires a combination of 22 credit hours of in-seat, hybrid and online instruction. The Elementary, Secondary and Special Education Minor programs benefits individuals interested in future involvement in Education as a parent, a school board member, etc. Physical and Health Education minors requires a combination of 23 and 36 credit hours respectfully of in-seat, hybrid and online instruction. The Physical and Health Education Minor programs benefit students seeking additional endorsements. While many Education courses apply to Missouri Teacher Certification, students who minor in Education will not be able to gain Missouri Teacher Certification unless they later decide to formally apply for and be admitted to The Educator Preparation Program and complete all certification requirements.

Suggested Department Electives

PEP 312: Motor Learning
PEP 320: Assessments in Physical Education
PEP 372: I & A of Movements and Rhythms
PEP 378: I & A of Lifetime Activities
PEP 379: I & A of Individual & Team Sports
PEP 380: Care of Injuries – Upper Body
PEP 381: Care of Injuries - Lower Body

Additional Health Electives

EDU 206: Health, Safety & Nutrition of the Young Child
EDU 417 H: M/M/O in Teaching Health

Course Descriptions

Listed courses may not be taught every semester or every year. The area coordinator and/or Wellness advisors have information about projected course offerings for a semester/year.

- PED 111 PERSONAL AND COMMUNITY HEALTH.** (2). Promotes positive attitudes, habits, values, and behaviors that lead to efficient and healthy living. Students will develop an understanding of why and how to promote healthy lifestyles. Community health programs and resources will be explored.
- PED 303 HEALTHCARE ETHICS.** (3). The course will include the study, history, an understanding of healthcare ethics, as well as the study of common ethical issues that are discussed today. The purpose of this course is for the students to obtain a working knowledge of how ethical issues come about and are decided. The assignments are designed to provide the students background knowledge and the steps and processes to determine their own opinions on current common ethical issues. Prerequisites: Grade of “C” or better in PEP 200, PED 111, and at least sophomore standing.
- PED 411 SCHOOL AND COMMUNITY HEALTH.** (2). Teachers’ roles in promoting health and preventing disease through Comprehensive School Health Program, including methods of integrating health into the classroom. Prerequisites: Grade of “C” or better in PED 111, PEP 200 and at least sophomore standing.
- PED 415 TOPICS IN HEALTH.** (2). More in-depth study of specific health areas according to student interest (e.g., disease prevention and treatment, war and peace, global warming and world health).
- PED 418 STRESS, MENTAL, EMOTIONAL AND SPIRITUAL WELLNESS** (3). Course provides an understanding of stress, its causes/consequences, and an opportunity to personally apply stress management techniques in a variety of settings. Course also focuses on perspectives and tools to assist people in achieving mental, emotional and spiritual wellness. Prerequisites: Grade of “C” or better in PEP 200 and at least sophomore standing.

- PED 420 EXERCISE PRESCRIPTION FOR INDIVIDUALS WITH SPECIAL NEEDS (3).** Course is designed to prepare wellness majors with knowledge and skills needed to plan and implement appropriate physical activities for individuals with special needs. Students are required to complete a 20-hour clinical/observation experience in an approved adapted setting. Prerequisites: Grade of “C” or better in PEP 200, PEP 201, & PEP 312.
- PED 422 DRUG AND SEX EDUCATION (3).** Course provides an understanding of the use and abuse of legal and illegal drugs. The course also focuses on public issues surrounding human sexuality. Controversial issues relating to public/social policy, prevention/treatment, intimate behaviors, reproduction/disease, and social issues are discussed. Prerequisites: Grade of “C” or better in PED 111, PEP 200 and at least sophomore standing.
- WEL 405 PROGRAM DESIGN IN WELLNESS. (2).** The course uses the Program Design Wheel of assessing needs, determining goals, building Wellness programs, hiring staff, advertising for and recruiting participants, budgeting, delivering programs, evaluating programs, and reassessing needs.
- WEL 406 WELLNESS PROGRAM DELIVERY. (2).** This course gives students practice implementing small Wellness Programs on campus and in the community. Some examples include fitness testing, relaxation, stress management, sex education, nutrition, and health fairs.
- WEL 407 PROGRAM DESIGN AND DELIVERY IN WELLNESS. (3).** Students will discuss current programs in the areas of health and wellness. Various speakers from different community health programs will present. Students will also design their own wellness programs by assessing needs and determining goals. Focus will be on all components of a successful program, including but not limited to hiring staff, advertising, budgeting, delivery, recruitment, and evaluation. Prerequisite: Grade of “C” or better in PED 111, PEP 200, PEP 201, and at least junior standing.
- WEL 485 WELLNESS FACILITY MANAGEMENT. (3).** This course examines the principles and practices necessary to plan, develop, promote, operate, and maintain sporting events, athletic centers, and recreational facilities. An emphasis is placed on issues concerning personnel, finance, profitability, security, event scheduling, equipment management, facilities maintenance, and topics related to liability and risk management. Prerequisites: at least sophomore standing.
- WEL 495 WELLNESS PRACTICUM. (3).** Students will secure placement with a Wellness Program Facility (e.g., YMCA, hospital-based program, nursing home) to work 10-20 hours each week under joint supervision of the facility and the students’ advisor. Prerequisite: Grade of “C” or better in PED 111, PEP 200, PEP 201, and at least junior standing.

WEL 499 WELLNESS /INTERNSHIP. (3-12). Students will secure placement with a program directly related to their Wellness emphasis area, (e.g., YMCA, hospital-based program, nursing home, the LINC, LU Athletic Director) to complete a 400-hour internship and capstone project. The internship will be under joint supervision of the facility and the internship coordinator. Prerequisite: Grade of “C” or better in PED 111, PEP 200, PEP 201, and at least junior standing.

Semester 7			Hrs	Semester 8			Hrs
WEL 407	Program Delivery in Wellness	3		WEL 499	Internship In Wellness	12	
MKT 309	Advertising Principles	3			Department Elective	3	
BAD 310	Principles of Management	3					
PED 485	Wellness Facility Management	3					
	Departmental Elective	3					
TOTAL:		15		TOTAL:		15	

Criminal Background Checks

All students entering the clinical nursing major will complete the required University's criminal record check at the students' expense. This investigation meets statutory requirements and is to insure students have not previously committed violent crimes against persons. If clinical agencies require reverification, students must complete additional criminal background checks as required by the agencies.

Students must meet the requirements of clinical agencies where Lincoln University participates in clinical experiences. If the results of the criminal records background check reveal a record or conviction, guilty plea or *nolo contendere* plea involving Class A or Class B felonies as listed under Missouri law, the student will not be able to participate in clinical and therefore will not be eligible to be in or to continue in the nursing program.

It is illegal for licensed hospitals, nursing homes and in-home care agencies under contract with the Department of Health and Senior Services to knowingly hire a person for a position for the purpose of having contact with patients or residents if that person is currently on the Employee Disqualification List of the Department of Social Services. If a student is listed on the Employee Disqualification List maintained by the State of Missouri Department of Health and Senior Services, the student will not be able to attend clinical. If the applicant is on the Employee Disqualification List, the applicant may be able to ask for and obtain a waiver from the Department of Health and Senior Services if they feel they are now eligible to be in the nursing program.

Computer Skills Requirement

Nursing students must be able to utilize university email, on-line course management systems, Internet, and word-processing throughout the nursing program.

Course Descriptions

Listed courses may not be taught every semester. The department head and departmental advisors have information about projected course offerings for a semester/year.

NUR 101 NURSING PROCESS I. (9, fa). Basic concepts of nursing, nursing skills, scientific principles emphasizing needs common to all people, surgical interventions, and identification and treatment of cellular alterations in varied health care settings. Five hours lecture, twelve hours clinical. Prerequisites: GE 101, BIO 208, BIO 209L, MAT 111, ENG 101 and PSY 101. Corequisite: NUR 235.

NUR 103 PSYCHOSOCIAL/GERONTOLOGICAL NURSING PROCESS. (4, sp). Concepts of psychosocial nursing throughout the lifespan with identification of related alterations and treatments, and concepts of gerontological nursing, applied in varied health care and community settings. Prerequisite: NUR 101 and NUR 235. Corequisite: PSY 308. Four hours lecture, twelve hours clinical

weekly per 8-week session.

- NUR 104 NURSING PROCESS II.** (5, sp). Application of scientific principles and concepts of nursing in providing care to the client with unmet sensory, neurologic, fluid and electrolyte, renal elimination, and mobility needs. Prerequisite: NUR 103. Six hours lecture, twelve hours clinical weekly per 8-week session.
- NUR 106 TRANSITIONS TO PROFESSIONAL NURSING.** (2, sp). Designed for the LPN allowing demonstration of competency in the skills essential to beginning nursing practice and determining placement in the AAS in Nursing Program. Prerequisite: Current undisciplined Missouri LPN license and admission to AAS in Nursing Program.
- NUR 201 NURSING PROCESS III.** 5, fa). Application of scientific principles and concepts of nursing in providing care to the client with unmet nutrition, elimination, and regulation needs. Prerequisite: NUR 104, BIO 301, BIO 301L, PSY 308. Corequisite: ENG 102, SA 201. Four hours lecture, twelve hours clinical weekly per 8-week session.
- NUR 202 MATERNAL/CHILD NURSING PROCESS.** (4,fa). Application of scientific principles and concepts of nursing in providing care to meet the needs of maternity patients and children from birth through adolescence. Prerequisite: NUR 201. Six hours lecture, twelve hours clinical weekly per 8-week session.
- NUR 203 NURSING PROCESS IV.** (5, sp). Differentiation and application of scientific principles and concepts of nursing in providing care to clients with unmet oxygenation, multi-system and critical care needs. Prerequisite: NUR 202, ENG 102, SA 201. Corequisite: PSC 203 or 204; HIS 205 or 206. Six hours lecture, twelve hours clinical weekly per 8-week session.
- NUR 204 NURSING LEADERSHIP.** (4, sp). Application of leadership principles in providing care to clients in and across health care settings, examining legal, ethical, and professional frameworks of nursing. Prerequisite: NUR 203. Four hours lecture and twelve hours clinical weekly per 8-week session. This course is designated writing intensive.

investigation meets statutory requirements and is to ensure students have not previously committed violent crimes against persons. If practicum agencies require reverification, students must complete additional criminal background checks as required by the agencies.

Students must meet the requirements of practicum agencies where Lincoln University participates in practicum experiences. If the results of the criminal records background check reveal a record or conviction, guilty pleas or *nolo contendere* pleas involving Class A or Class B felonies as listed under Missouri law, the student will not be able to participate in practicums.

It is illegal for licensed hospitals, nursing homes and in-home care agencies under contract with the Department of Health and Senior Services to knowingly hire a person for a position for the purpose of having contact with patients or residents if that person is currently on the Employee Disqualification List of the Department of Social Services. If a student is listed on the Employee Disqualification List maintained by the State of Missouri Department of Health and Senior Services, the student will not be able to attend practicums.

Computer Skills Requirement

Nursing students must be able to utilize university email, on-line course management systems, Internet, and word-processing throughout the nursing program.

Course Descriptions

Listed courses may not be taught every semester or every year. The department head and departmental advisors have information about projected course offerings for a semester/year.

NUR 100 - PRE-NURSING SURVEY (3) This course introduces the student to nursing as a profession exploring the various roles of the nurse and current issues in nursing and health care. Emphasis is on effective communication, critical thinking and professionalism. This course must be taken prior to seeking admission to the BSN program. This course has 3 hours of theory per week. Prerequisite: BIO 103/104L with a minimum grade of C. Co-requisite: English 102.

NUR 200 – PHARMACOLOGY IN NURSING (3) This course introduces the basic classification systems of medications and the foundational concepts of pharmacology in relation to the actions and effects of medications on the human body. Utilizing a prototypical drug approach, application of the nursing process will be stressed with emphasis on nursing interventions and patient education. This course has 3 hours of theory per week. Prerequisite: Admission to the BSN program or permission of instructor.

NUR 220/220H – FUNDAMENTALS OF NURSING (5) This course introduces the student to the diverse nature of professional nursing practice. Students learn concepts and theories basic to the art and science of nursing.

Focus will be given to the beginning application of fundamental nursing concepts including: nursing process, therapeutic communication, the teaching/learning process, characteristics of professional behavior, common mechanisms of disease processes, and general nursing interventions to treat frequently occurring health problems. This course has 3 hours of theory and 6 hours of practicum per week. Prerequisite: Admission to the BSN program. Co-requisites: NUR 200, NUR 230/230L, NUR 235.

NUR 230/230L – PRINCIPLES OF NURSING SKILLS (4) This course introduces the skills and concepts required to deliver safe and professional nursing care throughout the adult lifespan, utilizing evidence-based practice and technology. Students will explore basic nursing skills ranging from hygiene, vital signs, assessment, mobility, concepts of sterility, IV therapy, and medication administration. This course has 3 hours of theory and 3 hours of laboratory per week. Prerequisite: Admission to the BSN program. Co-requisites: NUR 200, NUR 220/220H, NUR 235.

NUR 235 – PRINCIPLES OF NUTRITION (3) This course provides an overview of the basic nutrients required by the body for optimal health and wellness. The role that nutrition plays in various phases of the human life cycle and the psychological and sociological implications of food are discussed. Students use scientific thinking to question nutritional information presented in the various media and dispel any common nutrition myths. Students learn how the scientific method of inquiry is used in nutritional science and the health fields. In addition, the application of nutritional concepts to care for patients is studied. Conditions that are amenable to modification by diet therapy and other nursing and medical interventions are explored. Prerequisite: BIO 103/104L or CHM 101.

NUR 300 – GERONTOLOGICAL NURSING (2) This course is the study and application of evidence-based principles and concepts of gerontological nursing with identification of related alterations and treatments applied in varied health care and community settings. This course has 2 hours of theory per week. Prerequisites: NUR 305/305P, NUR 322/322L, NUR 340/340H, Co-requisites: NUR 360, NUR 365/365H.

NUR 305/305P - PSYCHOSOCIAL NURSING (3) This course is the study and application of evidence-based principles and concepts of nursing in providing care to meet the mental health needs of adults. Emphasis on clinical prevention and population-focused health for clients in varied health care and community settings. This course has 2 hours of theory and 3 hours of practicum per week. Prerequisites: NUR 200, NUR 220/220H, NUR 230/230L. Co-requisites: NUR 322/322L, NUR 340/340H.

NUR 322/322L – ESSENTIALS OF HEALTH ASSESSMENT (3) This course focuses on health assessment of adult clients. Emphasis on health history and physical exam skill development. Health promotion, primary and secondary prevention strategies are incorporated into the assessment process. This course has 2 hours of theory and 3 hours of laboratory per week.

Prerequisites: NUR 200, NUR 220/220H, NUR 230/230L. Co-requisites: NUR 305/305P, NUR 322L, NUR 340/340H.

NUR 340/340H – MEDICAL-SURGICAL NURSING I (5) This course is the study and application of evidence-based principles and concepts of nursing in providing care to the client with altered sensory input, unmet fluid and electrolytes, renal, neurological, movement and coordination needs. This course has 3 hours of theory and 6 hours of practicum per week. Prerequisites: NUR 200, NUR 220/220H, NUR 230/230L. Co-requisites: NUR 305/305P, NUR 322/322L.

NUR 360 – INTRODUCTION TO NURSING RESEARCH (3) This course introduces the principles of research theory and methodology. Develops skills in critiquing nursing research and its application in evidence-based practice. This course has 3 hours of theory per week. Prerequisites: NUR 305/305P, NUR 322/322L, NUR 340/340H. Co-requisites: NUR 300, NUR 365/365H. This is a writing intensive course.

NUR 365/365H – NURSING OF WOMEN & CHILDREN (6) This course is the study and application of evidence-based principles and concepts of nursing in providing care to meet the needs of women and children, birth through adolescence. Emphasis on clinical prevention and population-focused health for women and children in varied health care and community settings. This course has 4 hours of theory and 6 hours of practicum per week. Prerequisites: NUR 305/305P, NUR 322/322L, NUR 340/340H. Co-requisites: NUR 300, NUR 360.

NUR 400/400H - MEDICAL-SURGICAL NURSING II (6) This course is the study and application of evidence-based principles and concepts of nursing in providing care to the client with unmet nutrition, elimination, regulation, and sexuality needs. This course has 3 hours of theory and 9 hours of practicum per week. Prerequisites: NUR 300, NUR 360, NUR 365/365H. Co-requisites: NUR 420, NUR 460.

NUR 420 – LEADERSHIP/MANAGEMENT IN NURSING (3) This course is the study of leadership and management principles with emphasis of organizational structures, economic and political trends, healthcare environments and workforce management. This course is designated writing intensive. This course has 6 hours of theory per 8 week session. Prerequisites: NUR 300, NUR 360, NUR 365, NUR 365H Co-requisites: NUR 400/400H, NUR 460.

NUR 435/435H - MEDICAL-SURGICAL NURSING III (6) This course is the study and application of evidence-based principles and concepts of nursing in providing care to clients with unmet oxygenation, multi-system, and critical care needs. This course has 3 hours of theory and 9 hours of practicum per week. Prerequisites: NUR 400/400H, NUR 420, NUR 460 Co-requisites: NUR 475/475P.

NUR 460 – LEGAL & ETHICAL ISSUES IN PROFESSIONAL NURSING (3) This course is a study of legal and ethical issues/events impacting professional nursing practice. Selected legal and ethical issues related to social, political and economic trends are discussed. This course has 6 hours of theory per 8 week session. Prerequisites: NUR 300, NUR 360, NUR 365/365H. Co-requisites: NUR 400/400H, NUR 420.

NUR 475/475P- COMMUNITY HEALTH NURSING (5) This course is the study and application of care for individuals, families, groups, communities, and populations. Emphasis is placed on health promotion and disease prevention. This course has 3 hours of theory and 6 hours of practicum per week. Students will complete a capstone project. This course is intended for BSN students. Prerequisites: NUR 400/400H, NUR 420, NUR 460. Co-requisites: NUR 435/435H.

Progression

Each student must satisfy all course requirements of each course before progressing in the nursing sequence. Comprehensive examinations are administered at the end of each semester of study in the BSN program. Courses may also include a laboratory and math practicum which must be successfully completed in order to pass the course. The practicum portion of the class is pass/fail. Unsatisfactory performance in either theory or practicum will result in failure for the course. The following scale is used to designate the level of performance in required nursing courses: A = 90-100%; B = 80-89%; C = 75-79%; D = 60-74%; F = below 60%. Any student who earns a failing grade in practicum, but who has an average of 75 or more in theory, will be awarded a grade of "D" for the course.

Students admitted to the nursing program who twice enroll, within the past five years, in any course required for the nursing degree and do not receive a grade of "C" or above will be denied progression in the program. A student may repeat two nursing courses within a five year period. A repeated nursing course must be passed on the second attempt. If extenuating circumstances have occurred, the student may petition the faculty in writing for an exception.

A student withdrawing from a nursing course is required to contact the course faculty. If the grade earned at the time of withdrawal is D or F this will be considered a course failure for purpose of curriculum progression. If the grade earned at the time of withdrawal is a C or above there may be no effect in regard to curriculum progression. A student must reapply for re-enrollment within two consecutive semesters. Re-enrollment is contingent upon space available in the course. If a student is unable to re-enroll and return to the course within two consecutive semesters the student may be required to repeat all or part of previously completed courses within the curriculum. If extenuating circumstances have occurred, the student may petition the faculty

Course Descriptions

Listed courses may not be taught every semester or every year. The dean and departmental advisors have information about projected course offerings for a semester/year. All RN-BSN nursing courses are currently being taught online using the Canvas Course Management System.

NUR 310 CONCEPTS OF PROFESSIONAL NURSING. (3,fa). This course introduces the student to professional nursing practice, including the evolution of and theoretical basis for nursing. Special emphasis is placed on critical aspects of professional nursing practice and the future of health care. This course has 6 hours of theory/week per 8 week session. Prerequisite: Admission to the RN-BSN program.

NUR 322 – ESSENTIALS OF HEALTH ASSESSMENT (3 fa) This course focuses on health assessment of adult clients. Emphasis on health history and physical exam skill development. Health promotion, primary and secondary prevention strategies are incorporated into the assessment process. This course has 2 hours of theory and 3 hours of laboratory per week. This course has 6 hours of theory/week per 8 week session. Prerequisite: NUR 104.

NUR 335 DEATH AND BEREAVEMENT: CULTURAL VARIATIONS. (3, fa, sp, su). This course stimulates critical-thinking, explore feelings, and heighten self-awareness regarding death and grieving in various cultures. Content is holistic and deals with the physiologic, psychological, multicultural, spiritual, artistic and demographic aspects of death and bereavement across the lifespan. Emphasis will be on national and international aspects of thanatology. This course has 6 hours of theory/week per 8 week session. Pre-requisites: ENG 101, ENG 102

NUR 350 PATHOPHYSIOLOGY. (3,sp). This course studies altered physiologic processes which result in health problems across the lifespan and require physiologic adaptive mechanisms. Students utilize critical thinking skills in analysis of selected health problems and application of the nursing process to clinical situations. This course has 6 hours of theory/week per 8 week session. Pre-requisite: NUR 104.

- NUR 360 INTRODUCTION TO NURSING RESEARCH.** (3,sp). This course introduces the principles of research theory and methodology. Develops skills in critiquing nursing research and its application to practice. This course has 6 hours theory/week per 8 week session. Prerequisite: NUR 310. Prerequisite or corequisite: MAT 117
- NUR 415 SPECIAL TOPICS.** (1-3). Topics to be listed in course schedule. May enroll again as topic changes. Prerequisite: Senior standing or permission of instructor.
- NUR 420 LEADERSHIP/MANAGEMENT IN NURSING.** (3, fa). This course is the study of the leadership and management principles with emphasis of organizational structures, economical and political trends, healthcare environments and workforce management. This course is designated writing intensive. This course has 6 hours of theory/week per 8 week session. Prerequisites: NUR 310, NUR 360
- NUR 425 INDEPENDENT STUDY.** (1-3). Area of nursing studied will be subject to agreement between student and instructor. May enroll again as the topic changes. Prerequisite: Senior standing or permission of instructor.
- NUR 430 PROFESSIONAL NURSING PRACTICE/PRACTICUM.** (5, fa,). This course is the application of professional nursing practice in the roles of the nurse with emphasis on leadership/management, professionalism, and evidence-based practice. This course has 3 hours of theory and 6 hours of practicum per week. Prerequisite or corequisite: NUR 420.
- NUR 460 LEGAL AND ETHICAL ISSUES IN PROFESSIONAL NURSING.** (3, sp). This course is a study of legal and ethical issues/events impacting professional nursing practice. Selected legal and ethical issues related to social, political and economic trends are discussed. This course has 6 hours of theory/week per 8 week session. Prerequisite: NUR 360.
- NUR 470 COMMUNITY HEALTH/PRACTICUM.** (5, sp,). This course is the study and application of care for individuals, families, groups, communities, and populations. Emphasis is placed on health promotion and disease prevention. This course has 3 hours theory and 6 hours practicum per week. This course is intended for RN-BSN students. Prerequisite: NUR 435, Prerequisite or corequisite: NUR 460.