

# UNDERGRADUATE DEGREE REQUIREMENTS

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## BACHELOR DEGREE PROGRAMS

### Semester Hours

A total of 121 semester hours of academic credit (excluding credit earned for pre-college-level courses) is required for graduation. Individual courses of study may require additional hours. If the one hour of activity physical education is waived, then a minimum of 120 hours of academic credit is required. There are no exceptions to the 120-hour requirement. Any course that is repeated for a higher grade will not be counted more than once.

**A minimum of 40 hours of upper division courses (those numbered 300-499) is required for graduation. There are no exceptions to the 40-hour requirement.**

A maximum of 30 hours of extension and/or correspondence coursework may be counted toward a degree. A maximum of 10 semester hours in religion may be taken for elective credit.

### Grade Point Average Requirement for Graduation

A 2.00 cumulative grade point average is required for graduation. See **Grade Point Average** (p. 51) for calculation of the GPA.

### Major and Minor

Every student working toward a degree must select a major. Courses taken for the major must be approved by the major department. A major requires a minimum of 30 hours, including at least 18 upper division hours. A student wishing to declare a double major must complete all departmental requirements for each major. Only those courses required in both majors will be permitted to count toward both majors.

With the exception of some majors in the B.S. in Education degree program, a minor is not required, but may be elected, for any degree. If a minor is declared, a minimum of 18 hours (21 for the B.S. in Education degree) including at least 6 upper division hours is required. Individual departments should be consulted for specific major and minor requirements.

A student is not allowed to count toward his/her major or minor any course in which a grade lower than a "C" was received. A student earning less than a grade of "C" in a total of 9 hours of required major courses or less than a grade of "C" in 15 hours of all major courses (required and elective) may be denied further enrollment as a major in the department. A student who fails a course more than once is credited with failure only for the number of hours that the course carried. However, if a student fails a required major course three times, he/she may be denied further enrollment in that course.

### Associate Degree Programs

The University offers several associate degree programs. The minimum number of credit hours required ranges from 61-71, depending on the major field of study. See **University Academic Structure** (pp. 9-12) for a complete listing of degree programs. See specific department sections (under **Academic Programs**) for requirements.

## Second Bachelor's Degree

A student who has earned a bachelor's degree from a regionally accredited college or university may earn a second bachelor's degree if he or she 1) satisfies the curriculum requirements of the new major; 2) declares the new major in a field other than that of the first degree; and 3) completes a minimum total of 141 degree credit hours.

## Residence Requirements

Credit hours completed in regular classes, including conference courses, offered by Lincoln University on the main campus or any other location are said to be completed in residence. All students, including students who transfer to Lincoln University from another institution, must satisfy the following **minimum residence credit requirements**: A minimum of 30 credit hours of 300- and/or 400-level course work must be successfully completed in residence to obtain a baccalaureate degree; a minimum of 12 of these 30 semester hours must be in the major and, if a minor is declared, at least 6 of these 30 hours must be in the minor.

## Missouri State Law Requirement

Missouri state law prescribes that all candidates for a degree issued by the colleges and universities of Missouri must have "completed a course of instruction in" and "satisfactorily passed an examination on the provisions and principles of the Constitution of the United States and of the State of Missouri, and in American History and American Institutions." This provision may be satisfied by completing Area 5 of the **General Education Requirements**.

A transfer student who has taken courses in American Government, American History, or American Political Institutions that did not include a study of the Missouri Constitution may meet this requirement by satisfactorily passing a departmental Missouri Constitution examination at least 30 days prior to graduation.

## Computer Skills Requirement

Lincoln University believes that computer skills are a vital component of a complete education program. Because essential knowledge related to computers and software programs varies according to area, departments have determined computer literacy requirements for their majors. Requirements specific to each major are found in the Academic Programs section of this *Bulletin*.

## Writing Across the Curriculum

Recognizing that effective writing contributes to a person's ability to learn and to communicate, Lincoln University's academic departments expect students to develop and demonstrate competence in using written language effectively. Each student in a baccalaureate degree program will be required to satisfactorily complete at least one writing intensive course in the major. Writing for the course will be distributed throughout the semester and will include formal writing assignments or a combination of formal and informal elements as deemed pedagogically appropriate by the academic unit offering the course. Writing will be a substantial and integral part of any course designated as writing intensive and will be a major component in determining the course grade.

## **Student Outcomes Assessment Program (SOAP)**

Assessment of programs and students is an integral part of the academic and administrative process. Assessment at Lincoln University serves three major purposes: (a) improvement of student learning and instruction, (b) accomplishment of institutional mission, and (c) as documentation of the student's achievement of educational goals.

Lincoln University students are required to participate in the institution's Student Outcomes Assessment Program. Because the University must be able to evaluate its programs and services, it is mandatory that all enrolled persons participate in the Student Outcomes Assessment Program.

Each student pursuing his/her first bachelor's degree is required to take the General Education Test, an assessment of general education skills, after the completion of 75 or more credit hours (including transfer credits). In addition, each graduating senior is required to take the Major Field Exit Examination in his/her major area. A student who fails to take the General Education Test or the Major Field Exit Examination will be denied permission to register for the succeeding semester or, if in the final semester, will be restricted from graduating.

The Office of Institutional Research and Assessment will maintain responsibility for monitoring student participation in assessment activities. Students must participate in the Student Outcomes Assessment Program in order to satisfy departmental and University requirements for graduation. More detailed assessment information is included in each program area.

# GENERAL EDUCATION

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## Philosophy and Goals of General Education

General education encompasses the knowledge, skills, and attitudes that should be the common experiences of all educated individuals so that they can engage effectively in a life-long process of inquiry and decision-making and an appreciation of the fine arts.

General education is complementary to but different in emphasis and approach from special training for a job or a profession, or scholarship in a particular field of knowledge. A major aim of the University is to graduate students who can function as educated individuals in their families, in their work places, and as members of society at large.

The ten goals of the general education program at Lincoln University include eight statewide goals established by the Missouri Coordinating Board for Higher Education and two institutional goals unique to the University. Lincoln University's general education program therefore strives to achieve the following ten goals:

1. To develop students' effective use of the English language and quantitative and other symbolic systems essential to their success in school and in the world. Students should be able to read and listen critically and to write and speak with thoughtfulness, clarity, coherence, and persuasiveness.
2. To develop students' ability to distinguish among opinions, facts, and inferences; to identify underlying or implicit assumptions; to make informed judgments; and to solve problems by applying evaluative standards.
3. To develop students' ability to locate, organize, store, retrieve, evaluate, synthesize, and annotate information from print, electronic, and other sources in preparation for solving problems and making informed decisions.
4. To develop students' abilities to understand the moral and ethical values of a diverse society and to understand that many courses of action are guided by value judgments about the way things ought to be. Students should be able to make informed decisions through identifying personal values and the values of others and through understanding how such values develop. They should be able to synthesize the ethical implications of choices made on the basis of these values.
5. To develop students' understanding of themselves and the world around them through study of content and the processes used by historians and the social and behavioral scientists to discover, describe, explain, and predict human behavior and social systems. Students must understand the diversities and complexities of the cultural and social world, past and present, and come to an informed sense of self and others.
6. To develop students' understanding of the ways in which humans have addressed their condition through imaginative work in the humanities and fine arts; to deepen their understanding of how that imaginative process is informed and limited by social, cultural, linguistic, and historical circumstances; and to appreciate the world of the creative imagination as a form of knowledge.
7. To develop students' understanding of fundamental mathematical concepts and their applications. Students should develop a level of quantitative literacy that would enable them to make decisions and solve problems and which could serve as a basis for continued learning.

8. To develop students' understanding of the principles and laboratory procedures of life and physical sciences and to cultivate their abilities to apply the empirical methods of scientific inquiry. Students should understand how scientific discovery changes theoretical views of the world, informs our imaginations, and shapes human history. Students would also understand that science is shaped by historical and social contexts.
9. To develop students' international perspective through an understanding of diverse cultures and beliefs. Students should develop an awareness of the history and values of another culture and a deeper sense of both the similarities and the differences among cultures.
10. To develop students' understanding of why and how they can protect and improve their personal health and the health of their community. Students should understand the functions and interrelatedness of the physical, mental, emotional, social, spiritual, environmental, and societal dimensions of wellness and develop an appreciation for lifetime wellness activities.

## General Education Requirements

All state institutions in Missouri have been asked to design a 42-hour block of general education courses that meets the goals of general education as described previously. Because each institution is designing courses to meet identical goals, the general education block transfers from one school to another and satisfies the requirements of each institution following the state guidelines.

The following courses represent the General Education requirements at Lincoln University that will satisfy the requirements of other institutions as well. They are applicable to all four-year bachelor's degrees with the exception of the Bachelor of Liberal Studies degree at Lincoln University.

Some majors require a grade of "C" in specified general education courses. For information pertaining to a particular major, see requirements of that major.

For honors courses, see the course descriptions for prerequisites, the requirements that must be met before a student may enroll in the course.

### Area 1: Communications Skills (9 hrs.)

A.	ENG 101 Composition and Rhetoric I ENG 151H Honors Composition and Rhetoric I	3 hrs.
B.	ENG 102 Composition and Rhetoric II ENG 152H Honors Composition and Rhetoric II	3 hrs.
C.	SPT 206 Fundamentals of Speech (Prerequisite: ENG 101)	3 hrs.

Note: A grade of "C" or better is required to pass the communications skills courses.

**Area 2: Mathematics Skills (3 hrs.)**

Math 112 or higher

3 hrs.

Note: A student's score on the Mathematics portion of the ACT exam will determine his or her placement in a mathematics course. Those students who score high enough to enroll in MAT 123 are exempt from this three-hour math requirement.

**Area 3: Personal and Community Health (2 hr.)**

PED 111 Personal and Community Health

2 hrs.

**Area 4: Life and Physical Sciences (7 hrs.)**

Select courses from biology, chemistry, physics, environmental science or experimental psychology. At least one of these courses must have a laboratory.

7 hrs.

**Area 5: Social and Behavioral Sciences (12 hrs.)****A. United States and Missouri Constitution requirement**

3 hrs.

Select one of the following:

HIS 205 US History I

HIS 206 US History II

PSC 203 American National Government

PSC 203H Honors American National Government

PSC 204 American State and Local Government

**B. International History requirement**

3 hrs.

Select one of the following:

HIS 101 World Civilization I

HIS 151H Honors World Civilization I

HIS 102 World Civilization II

HIS 152H Honors World Civilization II

**C. Psychology requirement**

3 hrs.

Select one of the following:

PSY 101 General Psychology

PSY 151H Honors General Psychology

**D. Sociology/Economics requirement**

3 hrs.

Select one of the following:

S/A 201 Introduction to Sociology

S/A 202 Introduction to Anthropology

S/A 151H Honors Introduction to Sociology

SOC 301 The Family

ECO 201 Principles of Economics I

## **Area 6: Humanities and Fine Arts (6 hrs.)**

Select two courses from two different academic disciplines in the humanities: literature, philosophy, art appreciation, music appreciation, or theatre: 6 hrs.

AAS 200 African American Studies  
ART 100 Introduction to Art  
ART 330 History and Appreciation of Art  
ART 331 Twentieth Century Art  
MUS 200 World of Music  
MUS 205 Music of Black Americans  
SPT 209 Introduction to the Theatre  
Any literature course numbered below 400  
Any philosophy course numbered below 400  
Any foreign language course numbered above 200

## **Area 7: American Cultural Diversity (3 hrs.)**

Select a course from the following list: 3 hrs.

S/A 200 American Cultural Diversity  
ENG 307 American Literature Through 1865  
ENG 308 Survey of American Literature: 1865-Present  
HIS 203 African American History  
HIS 402 Ethnic History  
HIS 403 Blacks in America  
HIS 404 History of the Old South  
HIS 407 History of the New South  
HIS 477 Women in America  
MUS 205 Music of Black Americans  
PSC 350 U.S. Ethnic and Racial Politics  
PSC 480 Civil Rights, Civil Liberties  
S/A 200 American Cultural Diversity  
SOC 302 Minority Relations  
SOC 306 Sociology of Black Americans  
SOC 403 Community and Social Change

Subtotal to meet state guidelines: 42 hrs.

## **Institutional Requirements**

Each state university may include additional requirements in its general education program that are unique to its mission and goals. In addition to completing the above general education requirements, every student is required to complete the additional institutional requirements.

## **Area 8: International Cultural Diversity (3 hrs.)**

Select a course from the following list: 3 hrs.

AAS 200 African American Studies  
ANT 311 World Ethnography  
ANT 411 Culture Areas of the World

BAD 215	Introduction to Global Business
ENG 320	Masterpieces of Literature in English Translation
ENG 340	Women and Literature
EDU 260	Education and Cultural Diversity
FRE or SPA	Any 3-hour course in French, Spanish, or other modern foreign language
FRE 321	French Civilization I
FRE 322	French Civilization II
SPA 321	Latin American Civilization
SPA 322	Spanish Civilization
HIS 101	World Civilization I
HIS 151H	Honors World Civilization I
HIS 102	World Civilization II
HIS 152H	Honors World Civilization II
NUR 335	Death & Bereavement: Cultural Variations
PHI 201	Major Religions of the World
PHI 208	African World View
PSC 440	Comparative Politics
PSC 460	International Relations
S/A 202	Introduction to Socio-Cultural Anthropology

#### **Area 9: Lifetime Wellness Skills (1 hr.)**

PED (any 100 level activity course) 1 hr.

Note: The following students are exempt from the activity physical education requirement:

- veterans who present a copy of the DD-214 or DD-2384 form to the Office for Veteran Affairs
- students who present a medical statement of disability/special need to the Office of the Registrar (for referral to the Academic Routine Committee)
- students who enter or re-enter the University after their 35th birthday

#### **Area 10: General Education Skills (1 hr.)**

GE 101 University Seminar 1 hr.

Note: 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.

**Total General Education Requirements: 47 hrs.**

#### **Foreign Language Requirement for the Bachelor of Arts Degree**



In addition to the above general education requirements, students in Bachelor of Arts degree programs are required to complete at least 12 hours in a foreign language or coursework through FRE or SPA 230 or CHI 204.

A student in any degree program who has completed one or more years of foreign language study in high school may be eligible for advanced placement into intermediate foreign language courses and for academic credit for the prerequisite course(s). Students must apply to the Department of English, Foreign Languages and Journalism prior to registration for advanced placement. Students who place into intermediate foreign language courses may receive full credit for the prerequisite course(s), provided that they pass the course in which they enroll with a grade of “C” or better. For details and application deadlines, contact the Department of English, Foreign Languages and Journalism.

# ACADEMIC PROGRAMS

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All programs offered by Lincoln University are listed in alphabetical order by fields of learning under the college or area through which they are offered. Prior to the opening of each semester, a *Schedule of Courses* is published by the Office of the Registrar which lists the specific courses to be offered for that semester with the time of meeting, the building and the room number for each course.

In the course descriptions, the following information appears sequentially:

1. The academic program abbreviation and course number;
2. The title of the course;
3. The number of hours of credit. If the credit is variable or to be fixed in consultation with the major advisor, this is shown by the maximum and minimum credit;
4. The semester or session (fall-fa, spring-sp, summer-su) in which the course is generally offered and the calendar year (odd, even) in which the course is generally taught (may not be listed for each course);
5. "LF" if a lab fee is charged for the course;
6. "MF" if a music fee is charged for the course;
7. "EP" if eye protection is required in the course.
8. "AF" if an assessment fee is required in the course.

The eye protection requirement is stipulated by Missouri state law (1976) which requires all students, instructors, and visitors to wear an industrial-quality eye protective device when participating in or observing any courses of instruction which involve a potential eye hazard. All eye protection equipment must meet standards of the American National Standard Institute (A.N.S.I.), Standard A87.1968, and subsequent revisions thereof.

Sample programs of study or lists of program requirements are available in the *Bulletin* and in the academic departments for each degree area. Students are advised to work with a departmental advisor to monitor their progress through general education and major requirements.

The sample outlines generally do not include the scheduling of pre-college-level courses that might be required as a result of ACT scores and/or placement tests. Pre-college-level courses do not count toward the minimum 121 semester hours required for graduation.

# UNIVERSITY SEMINAR

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## Center for Advising

### Goal

University Seminar serves to introduce students to the college experience and facilitates a successful transition from high school to college. It orients students to college life by providing valuable information, skills, and strategies for success necessary to persist and graduate from Lincoln University.

### Student Learning Objectives

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

1. identify and demonstrate effective social and academic skills
2. describe significant events in the history of Lincoln University
3. demonstrate appreciation of lectures, recitals, and convocations
4. demonstrate active critical thinking and reading by participating in class discussion and activities
5. conduct library research and demonstrate the effective use of technology
6. connect and network with people at Lincoln University, including advisors, tutors, peers, instructors, and other faculty/staff/administrators, and access student support resources
7. understand the policies and programs outlined in the *Lincoln University Undergraduate Bulletin*
8. demonstrate an understanding of the rights and responsibilities of students at Lincoln University as outlined in the *Lincoln University Student Handbook*
9. perceive specific personal strengths, weaknesses, skills, and abilities and use this knowledge to explore major and career options and make informed decisions regarding short-term and long-term goals

### 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 which reflects the transition from high school to college.

### Course Description

This course is required of 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). An introduction to college in general and Lincoln University in particular. Prepares freshmen for success in their academic pursuits and encourages their personal growth. (See **General Education Requirements**, Area 10.)

# **COLLEGE OF AGRICULTURE, ENVIROMENTAL, AND HUMAN SCIENCES**

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Office of the Dean  
112A Bennett Hall  
(573) 681-5109

**DEPARTMENT OF AGRICULTURE AND  
ENVIRONMENTAL SCIENCES**  
107 Foster Hall  
(573) 681-5380

# AGRICULTURE AND ENVIRONMENTAL SCIENCES

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## **Mission**

The mission of the Department of Agriculture and 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, agribusiness and environmental sciences 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 Animal Science, Natural Resource Management, or Plant and Soil Science

Bachelor of Science in Agribusiness

Bachelor of Science in Environmental Science

## **Minors:**

Agriculture

Agribusiness

Aquaculture

Biotechnology

Environmental Science

Geospatial Information Science

Wildlife Management

## **Pre-Professional Training**

Pre-Veterinary Medicine

## **Objectives**

Students completing a degree in the department of Agriculture and 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, agribusiness and environmental sciences 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.

**Computer Science Requirement**

At completion of the Agriculture or Environmental Science 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 105. Students will also have the opportunity to develop computer skills in other departmental courses.

Students majoring in Agribusiness are required to take CS 105, 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.

# AGRICULTURE

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## DEPARTMENT OF AGRICULTURE AND ENVIRONMENTAL SCIENCES

Professors: Eivazi, Omara-Alwala, Paul  
Associate Professors: Andrei, El-Dweik, Shanks, Wetzel, Wuliji  
Assistant Professors: Ahuja, Bayan, Egilla, Pathan, Pinero, Sharma;

### Degree Offered

B.S. in Agriculture, offers an emphasis in Animal Science, Natural Resources Management, and Plant & Soil Science

### Required Courses

**General Education Requirements:** A minimum grade of “C” is required in BIO 103, BIO 104L, CHM 101, CHM 102, CS 105, 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.”

### 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 101A 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.

**AGR 202P 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 211P 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 laboratory. Prerequisites: CHM 101 or CHM 103 and CHM 104L or consent of instructor.

**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 428P 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 202P, and AGR 211P.

### **Courses common to all agriculture emphasis areas**

**AGR 175 SPECIAL TOPICS.** (1-5). Topic to be listed in the course schedule. Students may enroll again as topic changes. May not be used as a general education requirement. Consent of instructor required.

**AGR 325 COOPERATIVE EDUCATION PROGRAM.** (3-9). There are two options: **(A)** Practical work experience for a minimum duration of 26 weeks divided into two or more periods. Students electing the cooperative program will spend the summer (10 weeks) between their sophomore and junior years on a cooperative assignment. The second work experience would be in the fall semester (18 weeks) of their senior year. **(B)** This may be used as an internship with a practical work experience for a minimum period of 10 weeks.

**AGR 400 RESEARCH IN AGRICULTURE.** (2-4, fa, sp, su). 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.

**AGR 406 SPECIAL TOPICS IN AGRICULTURE.** (1-4). Topic to be listed in course schedule; may or may not include laboratory; may re-enroll as topic changes. Prerequisite: Consent of instructor.

### **Required Courses for Emphasis areas**

A minimum of 40 upper division credit hours (those numbered 300 and above) is required for graduation. Each of the three options has the following additional requirements. These courses also require a minimum grade of "C."

#### **Animal Science Emphasis** (Required courses)

**AGR 200A MEAT SCIENCE.** (2, sp, 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. Two hours lecture. Prerequisite: AGR 101A.

**AGR 303A PRINCIPLES OF NUTRITION.\*\*** (3, fa, sp). Basic principles of nutrition for man and animals, sources and utilization of essential nutrients. Three hours lecture. Prerequisites: BIO 103 and 104L or CHM 101.

**AGR 308A BEEF AND DAIRY CATTLE PRODUCTION.** (3, fa, 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 101A.



- AGR 313P PASTURES AND FORAGES.** (3, fa, odd). 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 202P and AGR 211P.
- AGR 315A SHEEP AND GOAT PRODUCTION.** (3, sp, even). 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 101A.
- AGR 320A ANIMAL BREEDING AND GENETICS.** (3, sp, odd). Genetic principles and their application towards genetic management of livestock populations and aquatic organisms. Three hours lecture. Prerequisite: AGR 101A.
- AGR 339A MONOGASTRIC NUTRITION.\*\*** (3, sp, even). Course covers nutrition of monogastric animals (birds, mammals and fishes) emphasizing nutrient characteristics, functions, sources, digestion, absorption, and metabolism. Taxonomic and life stage differences are addressed and formulation and manufacturing is explored. Two hours lecture and one two hour laboratory. Prerequisites: AGR 101A, CHM 101 and CHM 102.
- AGR 340A COMPANION ANIMAL AND HORSE SCIENCE.** (3, sp, odd). Provides introductory information for students in physiology, nutrition, reproduction, health/diseases, and basic care of a wide variety of animals including dogs, cats, horses, birds, guinea pigs, rabbits, rodents, and reptiles. Three hours lecture. Prerequisite: AGR 101A.
- AGR 360A FUNDAMENTALS OF AQUACULTURE.** (3, fa). This course covers basic principles of aquaculture production for human food and non-food purposes. Students will learn the aquaculture species commonly used for production, cross-breeding and selection; the nutritional and environmental requirements for optimum productivity and the effects of aquacultural production on land and water use. Three hours lecture. Prerequisites: BIO 103 and 104 or CHM 101.
- AGR 408A RUMINANT NUTRITION.** (3, fa, odd). Upper level undergraduate course that takes a practical approach to ruminant nutrition; physical/chemical composition of feedstuffs, feed processing/ preparation, nutrient interactions, and application of nutritional principles to feeding ruminant animals. Two hours lecture and one two hour laboratory. Prerequisites: AGR 101A.
- AGR 422A REPRODUCTIVE PHYSIOLOGY.** (3, fa, odd). Anatomy and function of the male and female reproductive systems. Two hours lecture and one two hour laboratory. Prerequisite: AGR 101A.
- AGR 450A ANIMAL HEALTH, WELFARE, AND PARASITOLOGY.** (3, sp, even). This course covers small ruminant health, welfare, and parasitology and introduces students to care, disease prevention and clinical practices with emphasis on mastitis, footrot, and external and internal parasites. Two hours lecture and one two hour laboratory. Prerequisite: AGR 101A or BIO 103.

\*\* Students may take AGR 303A: Principles of Nutrition or AGR 339A: Monogastric Nutrition, as advised.

## ***Animal Science Electives***

Choose any 9 or more credits from any 300-400 level classes from departmental offerings (majors or minors) to complete your electives.

## **Natural Resources Management Emphasis** (Required courses)

- AGR 107P/ GENERAL BOTANY.** (4, sp). Fundamental facts and principles of plant life. Form, structure, reproduction and life processes are emphasized. Three hours lecture and one three hour laboratory. Prerequisite: BIO 103.
- AGR 321N WILDLIFE POLICY AND LAW.** (3, fa, odd). 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 326N/ ORNITHOLOGY.** (3, sp). An overview of the biology of birds, including anatomy, physiology, taxonomy and distribution, behavior, population community dynamics, ecology, origin, and evolution; emphasizes unique attributes of birds as animals. Two hours lecture and one two hour laboratory.
- AGR 341N PRINCIPLES AND PRACTICE OF FORESTRY** (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 103 and 104L or approval of instructor.
- AGR 417N WILDLIFE MANAGEMENT METHODS AND TECHNIQUES.** (4, fa, even). Basic principles and practices of wildlife management; special emphasis on population and habitat control. Three hours lecture and one two hour laboratory. Prerequisites: BIO 103 and 104L.
- BIO 423 ECOLOGY.** (4, fa). This course will present the dynamics of coexistence among species and their interactions with the physical environment. Four hours lecture. Prerequisites: BIO 103 and 104L.

## ***Natural Resources Management Electives***

- AGR 305N 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 414P SOIL, WATER, AND AIR CONSERVATION/MANAGEMENT.** (3, fa). Theoretical and practical aspects of contemporary methods of conservation and management of soil, water, and air. Two hours lecture and one two hour lab. Prerequisite: AGR 211P.
- AGR 426/ TAXONOMIC BOTANY.** (4, fa, even). The study of vascular plant diversity and evolutionary history.
- BIO 426** A plant collection will emphasize identification and recognition of regional species. Two one-hour lectures and two two-hour laboratories. Prerequisites: BIO 103 and 104L, and BIO 105 or 106 or AGR 107.

**AGR 435N/ WETLAND ECOLOGY AND MANAGEMENT.** (3, fa, odd). A

comprehensive presentation of biological, physical,

**ENV 435** chemical, and ecological aspects of major wetland types in North America , and wetland delineation. Two hours lecture and one two-hour laboratory. Prerequisites: CHM 101, GIS 208, and AGR 211P.

**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 hour lecture and one two hour laboratory. Prerequisite: GIS 208 and junior/senior standing or instructor's written permission.

Additionally, choose any 300-400 level classes from departmental offerings (majors or minors) to complete electives.

### **Plant and Soil Science Emphasis** (Required courses)

**AGR 107P/ GENERAL BOTANY.** (4, sp). External and internal structure and reproduction of plants and other photosynthetic

**BIO 106** organisms. Three one-hour lectures and one three hour laboratory. Prerequisite: BIO 103.

**AGR 215P INTRODUCTION TO ALTERNATIVE ENERGY SYSTEMS.** (3, fa). Introduces students to different resources and systems of renewable energy production. Environmental and economic aspects of renewable energy systems will also be taught. Three hours lecture.

**AGR 309P SOIL QUALITY AND AGRICULTURAL SUSTAINABILITY.** (3, fa, odd). Study of the challenges facing society including food security, loss of soil and water resources and associated ecosystem services. Embracing science-based soil management practices that directly respond to these challenges is both crucial and essential for the long-term sustainability of soil resources. Three hours lecture. Prerequisites: AGR 202P and AGR 211P.

**AGR 312P AGRONOMIC CROPS.** (3, sp, even). 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 202P and AGR 211P.

**AGR 315P TECHNOLOGIES OF BIOENERGY PRODUCTION.** (3, sp) Introduces students to different technologies for the conversion of biomass into bioenergy. Technologies include biochemical and thermochemical processes. Two hours lecture and one two hour lab.

**AGR 324P SOIL FERTILITY AND FERTILIZERS.** (3, sp, even). The study of nutrient elements in soils as they relate to plant growth; worldwide use of fertilizers, their environmental impacts; management and economics of soil amendments. Two hours lecture and one two hour laboratory. Prerequisite: AGR 211P.

- AGR 404P CROP SYSTEMS.** (Capstone). (3, sp, odd). A course in which students integrate the knowledge acquired during their education and synthesize solutions to current plant and soil science issues through different types of experiences. Three hours lecture. Prerequisites: Completion of 76 credits and consent of instructor.
- AGR 414P SOIL, WATER, AND AIR CONSERVATION/MANAGEMENT.** (3, fa). Theoretical and practical aspects of contemporary methods of conservation and management of soil, water, and air. Two hours lecture and two hour lab. Prerequisite: AGR 211P.

### **Plant and Soil Science Electives**

- AGR 306P 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 202P and AGR 107/BIO106.
- AGR 409P 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. Prerequisites: AGR 202P, AGR 306P or AGR 429P/BIO 429.
- AGR 426P/ TAXONOMIC BOTANY.** (4, fa, even). The study of vascular plant diversity and evolutionary history.
- BIO 426** A plant collection will emphasize identification and recognition of regional species. Two hours lecture and two hour laboratories. Prerequisites: BIO 103 and 104L, and BIO 105 or 106 or AGR 107.
- AGR 429P/ PLANT PHYSIOLOGY.** (4, fa, odd). The study of how plants function. Chemical and physical processes at the
- BIO 429** level of the organism, organ, cell, organelle and biomolecule. Three one hour lectures and one three hour laboratory. Prerequisites: BIO 105 or 106 or AGR 107, CHM 102.

Additionally, choose any 300-400 level classes from departmental offerings (majors or minors) to complete electives.

## Course Pathway

### Leading to a Bachelor of Science degree with a major in Agriculture

#### **B.S. in Agriculture with an Emphasis in Animal Science Even Year Start Date**

Please note: The below is an **EXAMPLE** sequence of courses. Students can use this as a guide when formulating their class schedules. Students are strongly encouraged to work with their advisors to individualize their own program. Additionally, students should consult the undergraduate catalog to review changes in requirements.

<b>Semester 1 Even</b>	<b>Hours</b>	<b>Semester 2 Odd</b>	<b>Hours</b>
GE 101 University Seminar	1	AGR 202P Introduction to Plant Science	3
AGR 101A Introduction to Animal Science	3	ENG 102 Composition and Rhetoric 2	3
ENV 103 Introduction to Environmental Science	3	MAT 113 or MAT 117	3
BIO 103/104L Principles of Biology with lab	4	Area 5 A, B, C, D (4 courses)	3
ENG 101 Composition and Rhetoric 1	3	Area 6 (2 courses)	3
<b>Total Hours</b>	<b>14</b>	<b>Total Hours</b>	<b>15</b>
<b>Semester 3 Odd</b>		<b>Semester 4 Even</b>	
ABU 202 Introduction to Agriculture Economics	3	CS 105 Business Applications for the Microcomputer	3
BT 212 Introduction to Biotechnology	2	CHM 102/102L General Chemistry 2 and Lab	4
AGR 200A Meat Science	2	Area 5 A, B, C, D (4 courses)	3
CHM 101/101L General Chemistry 1	4	Area 6 (2 courses)	3
SPT 206 Fundamentals of Speech	3	AGR Elective (for a total of 9 credits)	3
Area 9 Lifetime Wellness Skill	1		
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>16</b>
<b>Semester 5 Even</b>		<b>Semester 6 odd</b>	
GIS 208 Introduction to GIS	3	AGR 211P Soils in Our Environment	4
AGR 308A Beef and Dairy Cattle Production	3	AGR 320A Animal Breeding and Genetics	3
AGR 328P Integrated Pest Management	3	AGR 340A Companion Animal and Horse Sci.	3
AGR 360A Fundamentals of Aquaculture	3	AGR Elective (for a total of 9 credits)	3
		Area 7 or 8 (2 courses)	

<i>Area 7 or 8 (2 courses)</i>	3		3
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>16</b>
<b>Semester 7 Odd</b>		<b>Semester 8 Even</b>	
AGR 313P Pastures and Forages	3	<i>Area 5 A, B, C, D (4 courses )</i>	3
AGR 408A Ruminant Nutrition	3	AGR 310A Sheep and Goat Production	3
AGR 422A Reproductive Physiology	3	AGR 323A Monogastric Nutrition	3
<i>Area 5 A, B, C, D (4 courses )</i>	3	PED 111 Personal and Community Health	2
AGR Elective (for a total of 9 credits)	3	AGR Elective (for a total of 9 credits)	3
		AGR 401 Agriculture Seminar	1
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>15</b>
<b>TOTAL CREDIT HOURS</b>			<b>121</b>

*Courses in italics are interchangeable in the schedule.*

### **B.S. in Agriculture with an Emphasis in Animal Science** **Odd Year Start Date**

Please note: The below is an **EXAMPLE** sequence of courses. Students can use this as a guide when formulating their class schedules. Students are strongly encouraged to work with their advisors to individualize their own program. Additionally, students should consult the undergraduate catalog to review changes in requirements.

<b>Semester 1 Odd</b>	<b>Hours</b>	<b>Semester 2 Even</b>	<b>Hours</b>
GE 101 University Seminar	1	AGR 202P Introduction to Plant Science	3
AGR 101A Introduction to Animal Science	3	ENG 102 Composition and Rhetoric 2	3
ENV 103 Introduction to Environmental Science	3	MAT 113 or MAT 117	3
BIO 103/104L Principles of Biology with lab	4	<i>Area 5 A, B, C, D (4 courses )</i>	3
ENG 101 Composition and Rhetoric 1	3	<i>Area 6 (2 courses)</i>	3
<b>Total Hours</b>	<b>14</b>	<b>Total Hours</b>	<b>15</b>
<b>Semester 3 Even</b>		<b>Semester 4 Odd</b>	
ABU 202 Introduction to Agriculture Economics	3	CS 105 Introduction to Micro Computers	3
BT 212 Introduction to		CHM 102/102L General	

Biotechnology	2	Chemistry 2 and Lab	4
AGR 360A Fundamentals of Aquaculture	3	<i>Area 5 A, B, C, D (4 courses:)</i>	3
CHM 101/101L General Chemistry 1 and Lab	4	<i>Area 6 (2 courses)</i>	3
SPT 206 Fundamentals of Speech	3	AGR Elective (for a total of 9 credits)	3
Area 9 Lifetime Wellness Skill	1		
<b>Total Hours</b>	<b>16</b>	<b>Total Hours</b>	<b>16</b>
<b>Semester 5 Odd</b>		<b>Semester 6 Even</b>	
GIS 208 Introduction to GIS	3	AGR 211P Soils in Our Environment	4
AGR 200A Meat Science	2	AGR 310A Sheep and Goat Production	3
AGR 313P Pastures and Forages	3	AGR 323A Monogastric Nutrition	3
AGR 408A Ruminant Nutrition	3	AGR Elective (for a total of 9 credits)	3
AGR 422A Reproductive Physiology	3	<i>Area 7 or 8 (2 courses)</i>	3
<b>Total Hours</b>	<b>14</b>	<b>Total Hours</b>	<b>16</b>
<b>Semester 7 Even</b>		<b>Semester 8 Odd</b>	
AGR Elective (for a total of 9 credits)	3	<i>Area 5 A, B, C, D (4 courses)</i>	3
AGR 308A Beef and Dairy Cattle Production	3	AGR 320A Animal Breeding and Genetics	3
AGR 328P Integrated Pest Management	3	AGR 340A Companion Animal and Horse Sci.	3
<i>Area 5 A, B, C, D (4 courses )</i>	3	PED 111 Personal and Community Health	2
<i>Area 7 or 8 (2 courses)</i>	3	AGR Elective (for a total of 9 credits)	3
		AGR 401 Agriculture Seminar	1
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>15</b>
<b>TOTAL CREDIT HOURS</b>			<b>121</b>

*Courses in italics are interchangeable in the schedule.*

## B.S. in Agriculture with an Emphasis in Natural Resources Management

### Even Year Start Date

Please note: The below is an **EXAMPLE** sequence of courses. Students can use this as a guide when formulating their class schedules. **Students are strongly encouraged to work with their advisors to individualize their own program.** Additionally, students should consult the undergraduate catalog to review changes in requirements.

Semester 1 Even	Hours	Semester 2 Odd	Hours
GE 101 University Seminar	1	AGR 202P Introduction to Plant Science	3
AGR 101A Introduction to Animal Science	3	ENG 102 Composition and Rhetoric 2	3
ENV 103 Introduction to Environmental Science	3	MAT 113 or MAT 117	3
BIO 103/104L Principles of Biology with lab	4	Area 5 A, B, C, D (4 courses)	3
ENG 101 Composition and Rhetoric 1	3	Area 6 (2 courses)	3
<b>Total Hours</b>	<b>14</b>	<b>Total Hours</b>	<b>15</b>
Semester 3 Odd		Semester 4 Even	
ABU 202 Introduction to Agriculture Economics	3	CS 105 Business Applications for the Microcomputer	3
BT 212 Introduction to Biotechnology	2	CHM 102/102L General Chemistry 2 and Lab	4
AGR 107 General Botany	4	Area 5 A, B, C, D (4 courses)	3
CHM 101/101L General Chemistry 1 and Lab	4	Area 6 (2 courses)	3
SPT 206 Fundamentals of Speech	3	AGR Natural Resources/Wildlife Elective	3
Area 9 Lifetime Wellness Skill	1		
<b>Total Hours</b>	<b>17</b>	<b>Total Hours</b>	<b>16</b>
Semester 5 Even		Semester 6 Odd	
GIS 208 Introduction to GIS	3	AGR 211P Soils in Our Environment	4
AGR 326N Ornithology	3	AGR 321N Wildlife Policy and Law	3
AGR 328P Integrated Pest Management	3	AGR Natural Resources/Wildlife Elective	3
AGR Natural Resources/Wildlife Elective	3	Area 7 or 8 (2 courses)	3
Area 7 or 8 (2 courses)	3	AGR Natural Resources/Wildlife Elective	4
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>17</b>



Semester 7 Odd		Semester 8 Even	
BIO 423 Ecology	4	<i>Area 5 A, B, C, D (4 courses)</i>	3
AGR 417N Wildlife Management Methods	4	AGR Natural Resources/Wildlife Elective	4
<i>Area 5 A, B, C, D (4 courses )</i>	3	PED 111 Personal and Community Health	2
AGR 341 Principles and Practice of Forestry	3	AGR 401 Agriculture Seminar	1
		AGR Natural Resources/Wildlife Elective	3
<b>Total Hours</b>	<b>14</b>	<b>Total Hours</b>	<b>13</b>
<b>TOTAL CREDIT HOURS</b>			<b>121</b>

*Courses in italics are interchangeable in the schedule.*

### **B.S. in Agriculture with an Emphasis in Natural Resources Management Odd Year Start Date**

Please note: The below is an **EXAMPLE** sequence of courses. Students can use this as a guide when formulating their class schedules. **Students are strongly encouraged to work with their advisors to individualize their own program.** Additionally, students should consult the undergraduate catalog to review changes in requirements.

Semester 1 Odd	Hours	Semester 2 Even	Hours
GE 101 University Seminar	1	AGR 202P Introduction to Plant Science	3
AGR 101A Introduction to Animal Science	3	ENG 102 Composition and Rhetoric 2	3
ABU 202 Introduction to Agriculture Economics	3	MAT 113 or MAT 117	3
BIO 103/104L Principles of Biology and Lab	4	<i>Area 5 A, B, C, D (4 courses )</i>	3
ENG 101 Composition and Rhetoric 1	3	<i>Area 6 (2 courses)</i>	3
<b>Total Hours</b>	<b>14</b>	<b>Total Hours</b>	<b>15</b>
Semester 3 Even		Semester 4 Odd	
ENV 103 Introduction to Environmental Science	3	CS 105 Business Applications for the Microcomputer	3
BT 212 Introduction to Biotechnology	2	CHM 102/102L General Chemistry 2 and Lab	4
AGR 107 General Botany	4	<i>Area 5 A, B, C, D (4 courses)</i>	3
CHM 101/101L General Chemistry 1 and Lab	4	<i>Area 6 (2 courses)</i>	3

SPT 206 Fundamentals of Speech	3	AGR Natural Resources/Wildlife Elective	3
Area 9 Lifetime Wellness Skill	1		
<b>Total Hours</b>	<b>17</b>	<b>Total Hours</b>	<b>16</b>
<b>Semester 5 Odd</b>		<b>Semester 6 Even</b>	
GIS 208 Introduction to GIS	3	AGR 211P Soils in Our Environment	4
AGR 328P Integrated Pest Management	3	AGR 321N Wildlife Policy and Law	3
AGR Natural Resources/Wildlife Elective	3	AGR 326N Ornithology	3
AGR Natural Resources/Wildlife Elective	3	<i>Area 7 or 8 (2 courses)</i>	3
<i>Area 7 or 8 (2 courses)</i>	3	AGR Natural Resources/Wildlife Elective	4
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>17</b>
<b>Semester 7 Even</b>		<b>Semester 8 Odd</b>	
BIO 423 Ecology	4	<i>Area 5 A, B, C, D (4 courses )</i>	3
AGR Natural Resources/Wildlife Elective	1	AGR 417N Wildlife Management Methods	4
<i>Area 5 A, B, C, D (4 courses )</i>	3	PED 111 Personal and Community Health	2
AGR Natural Resources/Wildlife Elective	3	AGR 401 Agriculture Seminar	1
<b>AGR Natural Resources/Wildlife Elective</b>	<b>3</b>	AGR 341 Principles and Practice of Forestry	3
<b>Total Hours</b>	<b>14</b>	<b>Total Hours</b>	<b>13</b>
<b>TOTAL CREDIT HOURS</b>			<b>121</b>

*Courses in italics are interchangeable in the schedule.*

**B.S. in Agriculture with an Emphasis in Plant & Soil Sciences**  
**Even Year Start Date**

Please note: The below is an **EXAMPLE** sequence of courses. Students can use this as a guide when formulating their class schedules. Students are strongly encouraged to work with their advisors to individualize their own program. Additionally, students should consult the undergraduate catalog to review changes in requirements.

<b>First Semester (Fall Even)</b>	<b>Hrs</b>	<b>Second Semester (Spring Odd)</b>	<b>Hrs</b>
GE 101 University Seminar	1	<i>Area 5 A, B, C, D(4 courses)</i>	3
ENG 101 Composition and Rhetoric 1	3	<i>Area 5 A, B, C, D(4 courses)</i>	3
BIO 103/104L Principles of Biology and Lab	3	ENV 103 Introduction to Environmental Science	3
CS 105 Business Applications for the Microcomputer	4	MAT 113 or 117	3
MAT 111 Intermediate Algebra	3	<i>Area 6 (2 courses)</i>	3
AGR 215P Introduction to Alternative Energy Systems	3		
<i>Total Hours</i>	<b>14</b>	<i>Total Hours</i>	<b>15</b>
<b>Third Semester (Fall Odd)</b>		<b>Fourth Semester (Spring Even)</b>	
BIO 106 /AGR 107 General Botany and Lab	4	AGR 202P Introduction to Plant Science	3
CHM 101 /101L General Chemistry and Lab	4	<i>Area 5 A, B, C, D (4 courses)</i>	3
AGR 101 Introduction to Animal Science	3	<i>AGR 312P Agronomic Crops</i>	3
ABU 202 Introduction to Agric. Economics	3	CHM 102/102L General Chemistry 2 and Lab	4
Area 9 Wellness Skill (Any 100 Level PED)	1	AGR 211P/211L Soils in Our Environment and Lab	4
<i>Total Hours</i>	<b>15</b>	<i>Total Hours</i>	<b>17</b>
<b>Fifth Semester (Fall Even)</b>		<b>Sixth Semester (Spring Odd)</b>	
GIS 208 Introduction to GIS	3	AGR 324P Soil Fertility & Fertilizers	3
SPT 206 Fundamentals of Speech	3	<i>Area 6 (2 courses)</i>	3
BT 212/212L Introduction to Biotechnology and Lab	2	AGR 303A Principles of Nutrition	3
<i>Area 5 A, B, C, D (4 courses)</i>	3	<i>AGR 404 Crop Systems</i>	3
PED 111 Personal & Community Health	2	<i>AGR 409P Plant Propagation</i>	3
AGR 401 Agriculture Seminar	1		
<i>Total Hours</i>	<b>14</b>	<i>Total Hours</i>	<b>15</b>
<b>Seventh Semester (Fall Odd)</b>		<b>Eighth Semester (Spring Even)</b>	
<i>AGR 313P Pastures and Forages</i>	3	<i>Area 8 (2 courses)</i>	3

<i>AGR 414P Soil/Water/Air Conservation Management</i>	3	<i>Area 7 (2 courses)</i>	3
<i>AGR 429P Plant Physiology/ + Lab</i>	4	<i>Area 5 A, B, C, D (4 courses)</i>	3
<i>AGR 309P Soil Quality &amp; Environment Sustainability</i>	3	AGR 315P Tech. of Bioenergy Production	3
<i>AGR 428P/428L Integrated Pest Management and Lab</i>	3	<i>AGR 306P Horticulture</i>	<b>3</b>
Total Hours	<b>16</b>	Total Hours	<b>15</b>
<b>TOTAL CREDIT HOURS</b>			<b>121</b>

*Courses that are offered either during 'even' or 'odd' semesters only are in italics*

### **B.S. in Agriculture with an Emphasis in Plant & Soil Sciences** **Odd Year Start Date**

Please note: The below is an **EXAMPLE** sequence of courses. Students can use this as a guide when formulating their class schedules. Students are strongly encouraged to work with their advisors to individualize their own program. Additionally, students should consult the undergraduate catalog to review changes in requirements.

<b>First Semester (Fall Odd)</b>	<b>Hours</b>	<b>Second Semester (Spring Even)</b>	<b>Hours</b>
GE 101 University Seminar	1	ENG 102 Composition & Rhetoric II	3
ENG 101 Composition and Rhetoric I	3	HIS 101 World Civilization I	3
BIO 103/104L Principles of Biology and Lab	3	ENV 103 Introduction to Environmental Science	3
CS 105 Business Applications for the Microcomputer	4	MAT 113 or 117	3
		ART 100 Introduction to Art	3
AGR 215P Intro Alternative Energy Systems	3		
<i>Total Hours</i>	<b>14</b>	<i>Total Hours</i>	<b>15</b>
<b>Third Semester (Fall Even)</b>		<b>Fourth Semester (Spring Odd)</b>	
BIO 106 /AGR 107 General Botany and Lab	4	<i>Area 5 A, B, C, D (4 courses)</i>	3
CHM 101 /101L General Chemistry and Lab	4	<i>Area 5 A, B, C, D (4 courses)</i>	3
AGR 101 Introduction to Animal Science	3	<i>AGR 404 Crop Systems</i>	3
SPT 206 Fundamentals of Speech	3	CHM 102/102L General Chemistry 2 and Lab	4
Area 9 Wellness Skill (Any 100 Level PED)	1	<i>AGR 409P Plant Propagation</i>	3
<i>Total Hours</i>	<b>15</b>	<i>Total Hours</i>	<b>17</b>

<b>Fifth Semester (Fall Odd)</b>		<b>Sixth Semester (Spring Even)</b>	
<i>AGR 313A Pastures and Forages</i>	3	AGR 324P Soil Fertility & Fertilizers	3
<i>AGR 414P Soil/Water/Air Conserv. Mgmt.</i>	3	<i>Area 6 (2 courses)</i>	3
<i>AGR 429P Plant Physiology/ + Lab</i>	4	<i>AGR 312P Agronomic Crops</i>	3
<i>AGR 309P Soil Quality &amp; Environ. Sustainability</i>	3	AGR 211P Soils in Our Environment	4
<i>AGR 428P Integrated Pest Management</i>	3	AGR 303A Principles of Nutrition	3
Total Hours	<b>16</b>	Total Hours	<b>16</b>
<b>Seventh Semester (Fall Even)</b>		<b>Eighth Semester (Spring Odd)</b>	
GIS 208 Introduction to GIS	3	<i>Area 8 (2 courses)</i>	3
<i>ABU 202 Introduction to Agricultural Economics</i>	3	<i>Area 7 (2 courses)</i>	3
BT 212/212L Introduction to Biotechnology and Lab	2	<i>Area 5 A, B, C, D (4 courses)</i>	3
<i>Area 5 A, B, C, D (4 courses)</i>	3	AGR 315P Tech. of Bioenergy Production	3
PED 111 Personal & Community Health	2	<i>AGR 306P Horticulture</i>	<b>3</b>
AGR 401 Agriculture Seminar	1	Total Hours	<b>15</b>
<b>TOTAL CREDIT HOURS</b>			<b>121</b>

*Courses that are offered either during 'even' or 'odd' semesters only are in italics.*

**Additional Information:**

All major requirements must be completed with a grade of "C."

40 hours of upper division work required.

Free electives for majors and minors should be selected from upper division departmental courses.

# AGRIBUSINESS

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## DEPARTMENT OF AGRICULTURE AND ENVIRONMENTAL SCIENCES

Professor: Wollo  
Associate Professor: Ajuzie  
Assistant Professor: Gedikoglu

### Degree Offered

Bachelor of Science in Agribusiness

### Required Courses

**General Education Requirements:** A minimum grade of “C” is required in MAT 112 or 113 (Area 2), BIO 103, BIO 104, CHM 101 (Area 4), ECO 201 (Area 5), PHI 304 (Area 6b), and BAD 215 (Area 8).

**Core Requirements:** A minimum grade of “C” in ABU 202, ACC 246, 247; BAD 275, 350, 376; CS 105 or BED 208; MAT 117 or BAD 200; ECO 202; AGR 101A, 102P, 211P, 401; ENV 103.

**Major Requirements:** A minimum grade of “C” in, ABU 319, 320, 321, 323 402, 410, 412 or 414; Thirteen (13) credit hours of upper division electives from the following courses: ABU 407 or BAD 407; ABU 419, 420, 422, 424, 495; upper division agriculture courses; or upper division courses approved by the advisor.

### Course Descriptions

- ABU 202 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.
- ABU 302 APPLIED INTERMEDIATE MICROECONOMICS.** (3, fa, odd). The study of microeconomic analysis at the intermediate level and its application to decision making in agribusiness and agriculture, consumer demand analysis, production and cost analysis, and analysis of various market structures. Three hours lecture. Prerequisites: ABU 202 or ECO 202 and MAT 112 or 113.
- ABU 319 AGRICULTURE PROGRAMS AND POLICIES.** (3, fa, even). 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: ABU 202 and junior or senior standing.

- ABU 320 MARKETING AGRICULTURE PRODUCTS.** (3, sp, odd). Market development and agencies involved in concentration, dispersion, and equalization of products as they affect agriculture issues. Three hours lecture. Prerequisites: ABU 202, ECO 202 and junior or senior standing.
- ABU 321 AGRICULTURAL PRICE ANALYSIS.** (3, sp, even). Economic theory, data and statistics are used to describe agricultural price relationships and variations; factors causing price variations are determined; and trend, cyclical, seasonal and random price movements are analyzed. Three hours lecture. Prerequisites: ABU 202 or ECO 202, MAT 117, BAD 200, or BAD 376.
- ABU 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: ABU 202 and ABU 320.
- ABU 402 ENVIRONMENTAL AND RESOURCE ECONOMICS.** (3, sp, odd). Examination of economic aspects of natural resource use with regard to environmental quality issues. Three hours lecture. Prerequisite: ABU 202 or ECO 202 or ABU 302.
- ABU 407 AGRIBUSINESS INTERNSHIP.** (3-6, 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.
- ABU 410 SENIOR SEMINAR IN AGRIBUSINESS.** (2, sp). A capstone course that synthesizes the contents of the courses in a major area and integrates them into a coherent content course. A term paper with a focus on an economic or business related topic is required. This course is designated writing intensive. Prerequisite: senior standing.
- ABU 412 FARM BUSINESS MANAGEMENT.** (3, fa, odd). The organization and management of farm business, including land, labor and capital for maximum income. Three hours lecture. Prerequisites: ABU 202 and junior or senior standing.
- ABU 414 AGRIBUSINESS MANAGEMENT.** (3, fa, odd). Examination of the basic functions of management: planning, organizing, and controlling. ~~Development~~ Development of the understanding of agribusiness organizations and of the decision-making skills required in agribusiness management. Three hours lecture. Prerequisite: ABU 202, ABU 320, BAD 310, or consent of instructor.
- ABU 419 AGRICULTURAL COOPERATIVES.** (3, fa, odd). Economic basis for cooperative action, structure of cooperatives, problems of membership, public relations, personnel, tax policies, financing, and administrative policies. Prerequisite: junior or senior standing.
- ABU 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. Prerequisite: ABU 202 or ECO 201 or ABU 301.

- ABU 422 ECONOMICS OF ENERGY AND CLIMATE CHANGE.** (3, sp, even). Analysis of energy demand, energy supply, energy prices, environmental consequences of energy consumption and production, and public policies. Impact of climate change on the agricultural markets and analysis of climate change policies. Three hours lecture. Prerequisite: ABU 402
- ABU 424 APPLIED ECONOMETRICS.** (3, sp, even). Introduction to methods used to estimate relationships and test hypotheses pertaining to variables in agriculture and economics. Simple and multiple regression analysis; probability and logic; simultaneous equations heteroskedasticity; endogeneity. Three hours lecture. Prerequisite: MAT 117 or BAD 200.
- ABU 495 SPECIAL TOPICS IN AGRIBUSINESS.** (1-3). Topic to be listed in course schedule. May enroll as topic changes or BAD 376.

### Course Pathway

Leading to a Bachelor of Science Degree  
with a major in Agribusiness

#### B. S. in Agribusiness – Even Year Start Date

Please note: The below is an **EXAMPLE** sequence of courses. Students can use this as a guide when formulating their class schedules. **Students are strongly encouraged to work with their advisors to individualize their own program.** Additionally, students should consult the undergraduate catalog to review changes in requirements.

Semester 1 Even	Hours	Semester 2 Odd	Hours
GE 101 University Seminar	1	AGR 202P Introduction to Plant Science	3
AGR 101A Introduction to Animal Science	3	ENG 102 Composition and Rhetoric 2	3
ABU 202 Introduction to Agriculture Economics	3	MAT 112 or 113	3
BIO 103/104L Principles of Biology and lab	4	CHM 101/101L General Chemistry 1 and Lab	4
ENG 101 Composition and Rhetoric 1	3	ENV 103 Introduction to Environmental Science	3
<b>Total Hours</b>	<b>14</b>	<b>Total Hours</b>	<b>16</b>
Semester 3 Odd		Semester 4 Even	
SPT 206 Fundamentals of Speech	3	Area 7 or 8 (2 courses)	3
TWO HOUR Business Applications for the Microcomputer or BED 208 Integrated Computer Applications	3	ACC 247 Principles of Accounting II	3
Area 7 or 8 (2 courses)		Area 5 A, B, C, D (4 courses )	



	3		3
ACC 246 Principles of Accounting I	3	<i>Area 6 (2 courses)</i>	3
Area 9 Lifetime Wellness Skill	1	ECO 202 Principles of Economics II	3
MAT 117 Elementary Statistics or BAD 200 Intro to Business Statistics	3		
<b>Total Hours</b>	<b>16</b>	<b>Total Hours</b>	<b>15</b>
<b>Semester 5 Even</b>		<b>Semester 6 Odd</b>	
BAD 275: Business Law I	3	AGR 211P Soils in Our Environment	4
ABU 319 Agricultural Programs and Policy	3	<i>Area 6 (2 courses)</i>	3
ABU 420 International Agricultural Marketing and Trade	3	ABU 320 Marketing Agricultural Products	3
BAD 350 Financial Management	3	<i>Area 5 A, B, C, D (4 courses )</i>	3
<i>Area 5 A, B, C, D (4 courses)</i>	3	ABU 402 Environmental and Resource Economics	3
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>16</b>
<b>Semester 7 Odd</b>		<b>Semester 8 Even</b>	
PED 111 Personal and Community Health	2	ABU 414 Agribusiness Management or ABU 412 Farm Business Management	3
<i>Area 5 A, B, C, D (4 courses )</i>	3	ABU 410 Agribusiness Seminar	2
Upper Division Elective	3	ABU 321 Agricultural Price Analysis	3
BAD 376 Business Statistics	3	AGR 401 Agriculture Seminar	1
ABU 302 Applied Intermediate Microeconomics	3	ABU 323 Ag Future Marketing	3
		Upper Division Elective	3
<b>Total Hours</b>	<b>14</b>	<b>Total Hours</b>	<b>15</b>
<b>TOTAL CREDIT HOURS</b>			<b>121</b>

*Courses highlighted in italics are interchangeable in the schedule.*

## B. S. in Agribusiness – Odd Year Start Date

Please note: The below is an **EXAMPLE** sequence of courses. Students can use this as a guide when formulating their class schedules. **Students are strongly encouraged to work with their advisors to individualize their own program.** Additionally, students should consult the undergraduate catalog to review changes in requirements.

Semester 1 Odd	Hours	Semester 2 even	Hours
GE 101 University Seminar	1	AGR 202P Introduction to Plant Science	3
AGR 101A Introduction to Animal Science	3	ENG 102 Composition and Rhetoric 2	3
ABU 202 Introduction to Agriculture Economics	3	MAT 112 or MAT 113	3
BIO 103/104L Principles of Biology and Lab	4	Area 5 A, B, C, D (4 courses)	3
ENG 101 Composition and Rhetoric 1	3	PED 111 Personal and Community Health	2
<b>Total Hours</b>	<b>14</b>	<b>Total Hours</b>	<b>14</b>
Semester 3 Even		Semester 4 Odd	
ENV 103 Introduction to Environmental Science	3	TWO HOUR Business Applications for Microcomputer	3
Area 5 A, B, C, D (4 courses)	3	ACC 247 Principles of Accounting II	3
MAT 117 Elementary Statistics or BAD 200 Introduction to Business Statistics	3	Area 5 A, B, C, D (4 courses )	3
CHM 101/101L General Chemistry 1 and Lab	4	SPT 206 Fundamentals of Speech	3
ACC 246 Principles of Accounting I	3	Area 7 or 8 (2 courses)	3
Area 9 Lifetime Wellness Skill	1		
<b>Total Hours</b>	<b>17</b>	<b>Total Hours</b>	<b>15</b>
Semester 5 Odd		Semester 6 Even	
Area 6 (2 courses)	3	AGR 211P Soils in Our Environment	4
BAD 376 Business Statistics	3	ECO 202 Principles of Economics II	3
BAD 275 Business Law I	3	ABU 321 Agricultural Price Analysis	3
ABU 319 Agricultural Programs and Policy	3	Area 5 A, B, C, D (4 courses)	3
Area 7 or 8 (2 courses)	3	ABU 323 Ag Future Marketing	3
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>16</b>
Semester 7 Even		Semester 8 Odd	
ABU 302 Applied Intermediate	3	ABU 320 Marketing	3

Microeconomics		Agricultural Products	
BAD 350 Financial Management	3	ABU 410 Agribusiness Seminar	2
ABU 420 International Ag. Marketing and Trade	3	ABU 414 Agribusiness Management or ABU 412 Farm Business Management	3
Upper Division Elective	3	AGR 401 Agriculture Seminar	1
<i>Area 6 (2 courses)</i>	3	ABU 402 Environmental Resource Economics	3
		Upper Division Elective	3
<b><i>Total Hours</i></b>	<b><i>15</i></b>	<b><i>Total Hours</i></b>	<b><i>15</i></b>
<b>TOTAL CREDIT HOURS</b>			<b>121</b>

*Courses in italics are interchangeable in the schedule.*

# ENVIRONMENTAL SCIENCE

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## DEPARTMENT OF AGRICULTURE AND ENVIRONMENTAL SCIENCES

Professors: Eivazi, Nkongolo, Tesfaye, Yang  
Associate Professors: Andrei, Ikem, Zheng  
Assistant Professors: Bayan, Liu, Sharma

### Degree Offered

Bachelor of Science in Environmental Science

### Required Courses

**General Education Requirements:** A minimum grade of “C” is required in CHM 101 and 102, PHY 103, 104L, BIO 103, and 104L.

**Core Requirements:** A minimum grade of "C" is required in ENV 103, 104L, 302, 312, 315, 400, 401, 410, 415, 425, AGR 211P, GIS 316, BIO 301, BIO 423, and MAT 117. In addition, the student must complete ENV electives.

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

### 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.

- 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.
- ENV 104L INTRODUCTION TO ENVIRONMENTAL SCIENCE LABORATORY.** (1, sp, fa). Hands-on laboratory and field investigations designed to reinforce principles and basic facts of the natural environment. One two hour laboratory. Prerequisite: ENV 103 or concurrent enrollment.
- ENV 302 ENVIRONMENTAL SAMPLING, METHODS AND DATA ANALYSIS.** (3, fa). Principles and methods of sampling, chemical, physical and biological analyses of soil, water, and air. Data handling and statistical analysis, interpretation of results. Two hours lecture and one two hour lab. Prerequisites: ENV 103, AGR 211P, CHM 102 and MAT 117.
- ENV 312 ENVIRONMENTAL GEOLOGY.** (3, sp). The course examines geological phenomena, both naturally occurring and human activity induced, that affect the environment. Topics covered include earthquakes,

- volcanoes, landslides, subsidence, ground water, flooding and pollution. Two hours lecture and one two hour lab. Prerequisite: ENV 103.
- ENV 315 WASTE MANAGEMENT.** (3, sp). Waste classification and characterization into hazardous, non-hazardous, radioactive, non radioactive, solid wastes, liquid wastes; waste generation and major sources; waste source reduction strategies; waste treatment, transportation and disposal; remediation of contaminated sites; regulatory aspects of waste disposal; waste management principles; environmental performance evaluation. Three hours lecture. Prerequisites: ENV 103, CHM 101 and CHM 102
- ENV 400 RESEARCH IN ENVIRONMENTAL SCIENCE.** (1-3, sp, fa, su). This course provides a research opportunity for experiential learning in the areas of water quality, soil remediation and GIS application and other related topics.
- ENV 401 SEMINAR IN ENVIRONMENTAL SCIENCE.** (1, fa, sp). This course is designed to introduce presentation skills, including abstract writing, PowerPoint preparation, and oral presentation on environmental science topics.
- ENV 410/ ENVIRONMENTAL POLICY AND LAW.** (3, sp, odd). This course is designed to introduce students to
- PSC 470 environmental policies and laws.** It is designed to encourage critical thinking in applying laws and policies to address environmental problems on the local, regional, national and global levels. Case studies that highlight specific issues affecting or involving some facet of environmental quality will be analyzed and discussed with regards to social and economic impacts. Three hours lecture. Prerequisites: ENV 103 or permission of instructor
- ENV 415 ENVIRONMENTAL MONITORING AND REMEDIATION.** (3, sp, fa). 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 211P, CHM 101 and 102.
- ENV 425 CAPSTONE IN ENVIRONMENTAL ISSUES.** (3, sp, fa). A writing intensive course in which students integrate the knowledge acquired during their education and plan to carry out a scientific project from inception through completion. They present the results in both written and oral formats. This course is designated writing intensive.

### *Electives*

- ENV 202 SPECIAL TOPICS IN ENVIRONMENTAL SCIENCE.** (1-4). Topics to be listed in course schedule. May enroll again as topic changes. May not be used as a general education requirement.
- ENV 418 SPECIAL TOPICS IN ENVIRONMENTAL SCIENCE.** (1-4). Topics to be listed in course schedule. May enroll again as topic changes. May not be used as a general education requirement.
- ENV 435/ WETLAND ECOLOGY AND MANAGEMENT.** (3, fa, odd). A comprehensive presentation of biological,
- AGR 435 physical, chemical, and ecological aspects of major wetland types in North America , and wetland delineation.** Two-hours lecture and one two-hour laboratory. Prerequisites: CHM 101, GIS 208, and AGR 211P.
- ENV 450 HYDROLOGY.** (3, sp). Introduction to hydrologic cycle and watershed hydrology, fundamental principles governing movement of surface water

and groundwater, water quality issues, and anthropogenic and climate impact on hydrology. Three hours lecture. Prerequisites: ENV 103, MAT 113 or MAT 117.

Additionally, choose any 300-400 level classes from departmental offerings (majors or minors) to complete free electives.

## Course Pathway

Leading to a Bachelor of Science degree  
with a major in Environmental Science

### B. S. in Environmental Science

Please note: The below is an **EXAMPLE** sequence of courses. Students can use this as a guide when formulating their class schedules. **Students are strongly encouraged to work with their advisors to individualize their own program.** Additionally, students should consult the undergraduate catalog to review changes in requirements.

Fall - Semester 1	Hours	Spring - Semester 2	Hours
ENV 103/ Introduction to Environmental Science	3	PHY 103/ Earth Science	3
ENV 104L/Introduction to Environmental Science Lab	1	PHY 104L/Earth Science Lab	1
BIO 103/Principles of Biology	3	MAT 117/Elementary Statistics	3
BIO 104L/Principles of Biology Lab	1	ENG 102/Composition & Rhetoric II	3
ENG 101/Composition & Rhetoric I	3	PED 111 Personal and Community Health	2
Area 5 A, B, C, D (4 courses)	3	Area 6 (2 courses)	3
GE 101/University Seminar	1		
<b>Total</b>	<b>15</b>	<b>Total</b>	<b>15</b>
Semester 3		Semester 4	
CS 105/ Business Applications for the Microcomputer	3	CHM 102/General Chemistry II	4
CHM 101/General Chemistry I	4	AGR 211P/Soils in Our Environment	4
Area 5 A, B, C, D (4 courses)	3	Area 7 or 8 (2 courses)	3
Area 7 or 8 (2 courses)	3	Area 5 A, B, C, D (4 courses)	3
SPT 206/Fundamentals of Speech	3	Area 6 (2 courses)	3
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>17</b>

Semester 5		Semester 6	
ENV 302/Environmental Sampling & Data Analysis	3	ENV 312/Environmental Geology	3
ENV 435/ Wetland Ecology & Management	3	ENV 315/Waste Management	3
BIO 301/ General Microbiology	4	GIS 316/ Fundamentals of GIS	3
<i>Area 5 A, B, C, D (4 courses)</i>	3	XXX Elective	3
<i>Area 9 (1course)</i>	1	XXX Elective	3
<b>Total</b>	<b>14</b>	<b>Total</b>	<b>15</b>
Semester 7		Semester 8	
BIO 423/Ecology	4	ENV 400/Research in Environmental Science	3
ENV 401/Seminar in Environmental Science	1	ENV 410/Environmental Policy & Law	3
ENV 425/Capstone Environmental Issues	3	ENV 415/Environmental Monitoring & Remediation	3
XXX Elective	3	ENV 450/Hydrology	3
XXX Elective	3	XXX Elective	3
<b>Total</b>	<b>14</b>	<b>Total</b>	<b>15</b>
<b>TOTAL CREDIT HOURS</b>			<b>121</b>

*Courses in italics are interchangeable in the schedule.*

Additional Information:

All major requirements must be completed with a grade of “C.”

40 hours of upper division work required.

Choose any 300-400 level classes from departmental offerings (majors or minors) to complete free electives.

# AGRIBUSINESS (Minor)

## Required Courses

**Minor:** A minimum grade of "C" in AGR 101A, 211P, 202P, ABU 202, ACC 246, plus 6 hours of ABU electives (300-400 level).

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

**AGR 202P 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 211P 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.

**ABU 202 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.

**ACC 246 PRINCIPLES OF ACCOUNTING I.** (3, fa, sp, su). Fundamental principles of financial accounting as applied to sole proprietorship and partnerships. Three hours lecture. Prerequisites: a minimum grade of "C" in MAT 112, 113, 121, or 123; BED 208 or CS 108.



# AGRICULTURE (Minor)

## Required Courses

**Minor:** A minimum grade of "C" in AGR 101A, 202P, 211P, ABU 202, ENV 103 plus 6 hours of AGR electives (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.

**AGR 101A 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 202P 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 211P 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.

**ABU 202 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.

**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.

# AQUACULTURE (Minor)

## Objective

To train students, particularly those who are majoring in agricultural, environmental and biological sciences for graduate, professional and technical supporting positions in aquaculture and fisheries oriented occupations.

## Required Courses

**Minor:** A minimum grade of “C” in ABU 320, AGR 360A, AGR 361A, AGR 362A, AGR 363A and AGR 421A.

## 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 each semester year.

**ABU320    MARKETING AGRICULTURAL PRODUCTS.** (3, sp, odd). A Market development and agencies involved in concentration, dispersion, and equalization of products as they affect agricultural issues. Three hours lecture. Prerequisites: ABU 202 and junior or senior standing.

**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 103 and 104L.

**AGR 361A    WATER QUALITY FOR FISH CULTURE.** (3, fa). This course provides an in-depth coverage of the fundamental principles of water quality in aquaculture production, including a discussion of basic physical, chemical and biological principles. Two hour lecture and one two hours laboratory. Prerequisites: CHM 101 and CHM 102.

**AGR 362A    AQUATIC BIOLOGY.** (3, sp). Introduction to anatomical, physiological and life history adaptations of organisms to aquatic environments. Three-hours lecture. Prerequisites: BIO 103 and 104L.

**AGR 363A    BREEDING AND GENETICS OF AQUATIC ORGANISMS.** (3, sp). Introduction to breeding methods employed to propagate aquatic organisms and methods concerning genetics used for conservation of allelic profiles, Three hours lecture.

**AGR 421A    FISH NUTRITION.** (3, sp, odd). Basic principles of nutrition for fish and other aquaculture animal species, sources and utilization of essential nutrients. Three hours lecture. Prerequisites: BIO 103 and 104L or CHM 101 and CHM 102.

# BIOTECHNOLOGY (Minor)

## Objective

To apply the scientific study of biology, chemistry and engineering to the practices of medicine, agriculture, pharmaceuticals and numerous other professional fields.

## Required Courses

**Minor:** A minimum grade of “C” in BT 212, 350, 351, 380, BIO 312, CHM 306 and CHM 307L.

## 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.

- BT 212 INTRODUCTION TO BIOTECHNOLOGY.** (3, fa). A course designed to give an overview of biotechnology. A survey of the practical applications of biotechnology to a diverse group of disciplines. Two-hours lecture and one two hours laboratory.
- BT 350 EXPERIMENTAL BIOTECHNOLOGY I.** (4, fa). A presentation of both theory and laboratory experience in recombinant DNA methodology. Other topics to be covered will include cells of the immune system, antigen/antibody immunochemistry, immunogenetics and immune responses as well as protein chemistry. Two-hour lecture and two ~~two~~ hour laboratories. Prerequisites: BT 212, BIO 312.
- BT 351 APPLICATIONS IN BIOTECHNOLOGY II.** (4, sp). A course examining plant, animal and microbial cell culture. The use of cultured animal and plant cell systems in research and industry will be explored. Skills in mammalian cell culture will include cell counting, freezing and thawing cell lines and culture of suspension and attached cells. Two-hours lecture and two two-hour laboratories. Prerequisite: BT 350.
- BT 380 ETHICAL APPLICATIONS OF BIOTECHNOLOGY.** (2, sp). A study designed to familiarize students with current topics in biotechnology and the ethical considerations of the experiments that are performed. Two hours lecture/discussion. Prerequisite: BT 212 or permission of instructor.

# ENVIRONMENTAL SCIENCE (Minor)

## Objective

To study the biological and physical aspects of the environment and environmentally related issues, including methods of quantifying and abating or controlling environmental pollution and collateral damage.

## Required Courses

**Minor:** A minimum grade of “C” in ENV 103, 104L, 302, 415, and 410/PSC 470. In addition, the student must complete seven (7) hours from the following: CHM 101 and 102, PHY 103, PHY 104, BIO 301, AGR 211P, ENV 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.

- 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.
- ENV 104L INTRODUCTION TO ENVIRONMENTAL SCIENCE LABORATORY.** (1, sp, fa). Hands-on laboratory and field investigations designed to reinforce principles and basic facts of the natural environment. One two hour laboratory. Prerequisite: ENV 103 or concurrent enrollment.
- ENV 302 ENVIRONMENTAL SAMPLING, METHODS AND DATA ANALYSIS.** (3, fa). Principles and methods of sampling, chemical, physical and biological analyses of soil, water, and air. Data handling and statistical analysis, interpretation of results. Two hours lecture and one two hour lab. Prerequisites: ENV 103, AGR 202P, CHM 102 and MAT 117.
- ENV 410/ ENVIRONMENTAL POLICY AND LAW.** (3, sp, odd). This course is designed to introduce students to
- PCSC 470 ed to introduce students to environmental policy-policies and laws.** It is designed to encourage critical thinking in applying laws and policies to address environmental problems on the local, regional, national and global levels. Case studies that highlight specific issues affecting or involving some facet of environmental quality will be analyzed and discussed with regards to social and economic impacts. Three hours lecture. Prerequisites: ENV 103 and 301 or permission of instructor.
- ENV 415 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 211P, CHM 101 and 102.

# 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.

- 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 shhabitats and wildlife resources for aesthetic, ecological and recreational uses.

## Required Courses

**Minor:** A minimum grade of “C” in AGR 305N, 321N, 326N, and 417N, , and WLM 320, 330, 420, and 430.

## 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.

**WLM 320 URBAN WILDLIFE.** (3, sp, even). This course will present the dynamics of co-existence among non-domestic (wildlife) species and humans in a predominantly human derived environments. Three hours lecture. Prerequisites: ENV 103.

**WLM 330 COMMUNICATION AND EDUCATION FOR WILDLIFE MANAGE-MENT.** (3, fa, even). This course is designed to teach students how to understand complex issues in natural resource management and present them to others in a way that allows them to make intelligent and informed decisions about natural resource management issues. Three hours lecture. Prerequisites: ENG 101 and 102 OR ENG 151H and 152H, SPT 206, ENV 103. This course is designated writing intensive.

**WLM 420 INTERNSHIP IN WILDLIFE MANAGEMENT.** (3). This course is designed to give students an opportunity to gain training and experience in a professional capacity. Students will be required to complete a minimum of 150 hours of contracted activities and submit a final written and oral report. May be repeated but only the first three hours will count toward the minor. Prerequisites: BIO 103/104L or ENV 103 and consent of instructor.

~~two hour~~

**WLM 430 CURRENT TOPICS IN WILDLIFE MANAGEMENT.** (1, sp, odd). Written reports, oral reports and discussion of selected wildlife issues. Three hours lecture. Prerequisites: BIO 103/104L or ENV 103.

# Pre-Professional Training

## Pre-Veterinary Medicine

A strong high school background in biology, chemistry, mathematics and physics is highly beneficial for those interested in pursuing veterinary medicine as a career. The rigorous university curriculum is designed to allow students to meet the 60 hour minimum requirement for application to the College of Veterinary Medicine at the University of Missouri-Columbia (See Animal Science Curriculum for an example of the specific courses at Lincoln University that meet the requirements).

Students completing 1) the courses outlined below, and 2) the Veterinary College Admission Test (VCAT) within three years of application and receiving a minimum score of 20 are eligible to apply. However, most students admitted to each freshman class in veterinary school have completed their Bachelor of Science degrees. The majority of these students have majored in Animal Science or Biology.

Non-academic activities are also important criteria for acceptance with a minimum 40 hours required observance of veterinarian(s) actively engaged in clinical work. Additional public activities are highly recommended. For additional information, contact the Department of Agriculture & Environmental Sciences at 573-681-5967.

## Required courses

6 hours composition	English 101 and 102
3 hours of college algebra	MAT 113 College Algebra
8 hours of inorganic chemistry	CHM 101 and 102
5 hours of organic chemistry with a lab	CHM 301 and 302 plus CHM 303 (one of the laboratories)
3 hours of biochemistry	CHM 306
5 hours of non-calculus based physics	PHY 101 and 102
10 hours of biological science	
choose from the following: Principles of Biology with Lab, Genetics and Microbiology)	
10 hours of social science or humanities	
10 hours of electives, for example, nutrition, reproductive physiology, etc.	



# COLLEGE OF ARTS AND SCIENCES

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## **OFFICE OF THE DEAN**

312 Damel Hall  
(573) 681-5178

## **DEPARTMENT OF COMPUTER SCIENCE, TECHNOLOGY AND MATHEMATICS**

205 Damel Hall  
(573) 681-5489

## **DEPARTMENT OF ENGLISH, FOREIGN LANGUAGES AND JOURNALISM**

120 Martin Luther King Hall  
(573) 681-5280

## **DEPARTMENT OF HISTORY, POLITICAL SCIENCE AND PHILOSOPHY**

110 Martin Luther King Hall  
(573) 681-5231

## **DEPARTMENT OF LIFE AND PHYSICAL SCIENCES**

131 Founders Hall  
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## **DEPARTMENT OF MILITARY SCIENCE**

106 Soldiers Hall  
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## **DEPARTMENT OF SOCIAL AND BEHAVIORAL SCIENCES**

310 Founders Hall  
(573) 681-5145

## **DEPARTMENT OF VISUAL AND PERFORMING ARTS**

9 Richardson Fine Arts Center  
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## **AREA OF LIBERAL STUDIES**

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## **AREA OF LIBRARY AND INFORMATION SCIENCES**

Page Library

# COMPUTER SCIENCE

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## DEPARTMENT OF COMPUTER SCIENCE, TECHNOLOGY AND MATHEMATICS

Professor: Shinkut  
Associate Professors: Greninger, Sale  
Assistant Professors: Heise  
Instructor: Palangpour

### **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 and systems analysis.

### **Degrees Offered**

Bachelor of Science with a major in Computer Information Systems with three major areas of emphasis.

Associate of Applied Science with options in Computer Science or Computer Information Systems.

### **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 work place
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 instituted by the Department of Computer Science, Technology and Mathematics 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 and an Associate of Applied Science degree in Computer Science 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 other students completing similar programs.

Computer Information Systems and Computer Science professions are among the fastest changing and growing professions. Because of that, any student outcomes assessment method should be directed towards

1. assessing skills training and preparation of students; and
2. developing and/or reviewing the curriculum to meet the changes in the profession

Two methods of assessment will be employed. These are the Exit Examination and the Internship Survey.

Exit examinations will be given to all graduating students. The Exit Examinations will be prepared to reflect the major courses of the programs. Exit examinations of these programs will be reviewed every two years to reflect new courses developed and offered.

Reports and surveys from employers for student interns will be collected and analyzed in fall and spring semesters. The survey will be prepared to

1. quantitatively assess a student's knowledge and training, reflected by the grade given in CS 498
2. assess the student's skills and depth of training relative to other students (employees) from similar institutions

Data collected from the exit examinations and the internship survey will be analyzed by faculty to identify areas of strength and weakness, to plan changes and modifications to training and to assess the trends of the profession as a whole. Every two years, the Department may initiate new courses and/or drop courses reflecting changes in the profession.

### **Computer Skills Requirement**

A student who completes a major or minor in Computer Science or Computer Information Systems has automatically satisfied the computer skills requirement.

### **Required Courses**

**Major:** B.S. in Computer Information Systems

A student may major in Computer Information Systems (CIS) by completing the following with a minimum grade of "C": CS 101, 105, 205, 321, 342, 351, 443, 451, 460, plus 12 hours from one of the three major areas of emphasis, plus 3 hours of approved upper division (above 300 level) CS electives, and ACC 246, ECO 201 or 202, BAD 101, MAT 112 or 113, 117 and 6 hours of Business, Mathematics, Technology, GIS or electives as approved by the department head.

#### **Major Areas of Emphasis:**

##### **Area I            Programming**

Required courses CS 235 or 237, CS 335 or 338, CS 331 or 336 or 339, CS 310 or 442

##### **Area II            Networking**

Required Courses: CS 237, 310, 442, 445

##### **Area III           Web Development**

Required Courses: CS 237, 336, 341, 344

**Minor:** A student may minor in Computer Information Systems by completing with a minimum grade of "C" a total of 21 hours as follows: CS 101, 105, 235 or 237, and 12 hours of approved CS courses of which 6 hours must be upper division (above 300 level)

**Major:** A.A.S. in Computer Science

A minimum of 63-64 hours is required for an Associate of Applied Science degree depending on the option selected.

Students must complete the following 21 hours of core courses with a minimum grade of "C": CS 101, 105, 237, 310, 321, 338 and 351. In addition, majors must complete 13 hours of general education courses: GE 101, ENG 101, 102, PSC 203 or PSC 204 or HIS 205 or HIS 206, and SPT 206.

CIS Option: Students electing the CIS option must also complete with a minimum grade of "C": CS 235, 335, MAT 112 or 113, 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 64 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 63 hours.

## **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). 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, LF). 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 Power Point. 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, 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). 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 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: CS 105.

- 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. Prerequisites: None.
- CS 237 INTRODUCTION TO C++ PROGRAMMING.** (3, 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 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, 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 DATABASES.** (3). Stresses basic knowledge in data structures, normalization of data, data modeling, database methods, and schema construction. Three hours lecture. Prerequisite: CS 105.
- CS 322 C-SHARP.NET.** (3). 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). 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, 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, 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.
- CS 336 INTERNET PROGRAMMING WITH JAVA.** (3). 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, 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). 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 338 and MAT 315.
- 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 342 COMPUTER HARDWARE, AND ARCHITECTURE.** (3). 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 and CS 105.
- 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). 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.
- CS 351 SYSTEM DEVELOPMENT METHODOLOGIES: A SURVEY.** (3). 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). Introduction to Scripting Languages, using PYTHON and PERL as primary tools, especially suitable for making complex data selections and file changes. Prerequisites: CS 105.
- 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). Within a laboratory environment, students provide CS/CIS tutoring to other students. One hour credit given for each 3 hours of actual tutoring. Prerequisite: Permission of instructor.
- CS 390- SPECIAL TOPICS.** (3). Specific topics to be listed in the schedule. New

- 393** 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). 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).** Seminar to provide a forum for discussing research topics, methods, and results. Prerequisite: Consent of Instructor
- CS 441 ARTIFICIAL INTELLIGENCE.** (3, 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 321.
- CS 442 NETWORKING AND DATA COMMUNICATIONS.** (3, 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). 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). 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.
- CS 451 SYSTEMS DEVELOPMENT PROJECT.** (3). 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). 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). 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). 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). 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). 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). 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.

**BS in Computer Information Systems  
Programming Pathway  
Academic Map (Fall Admission)**

Semester 1		Hr s.	Semester 2		Hrs .
MAT 111	Intermediate Algebra	3	MAT 112 or MAT 113	Applied or College Algebra	3
ENG 101	Comp and Rhetoric I	3	CS 105	Bus App for Microcomputer	3
GE 101	University Seminar	1	ENG 102	Comp and Rhetoric II	3
CS 101	Intro to CS / CIS	3	Area 5A	PSC 203 or 204 or HIS 205 or 206	3
Area 5C	PSY 101: General	3	Area 6	ART 100 or MUS 200	3



	Psychology			suggested	
PED 111	Personal & Community Health	2			
<b>TOTAL:</b>		<b>15</b>	<b>TOTAL:</b>		<b>15</b>

<b>Semester 3</b>		<b>Hr s.</b>	<b>Semester 4</b>		<b>Hrs .</b>
MAT 117	Elementary Statistics	3	CS 321	Data Files and Databases	3
SPT 206	Fundamentals Of Speech	3	CS 235 or CS 237	Intro to COBOL or Intro to C++	3
CS 205	Advanced Microcomputer App	3	Area 6	PHI 101 or 102 suggested	3
Area 5B	HIS 101 or HIS 102 World Civil I/II	3	Area 7	SA 200 or HIS 203 suggested	3
Area 4	PHY 103 or 105 suggested	3	Area 4	ENV 103/104L suggested	4
- TOTAL :		<b>15</b>	<b>TOTAL :</b>		<b>16</b>

<b>Semester 5</b>		<b>Hr s.</b>	<b>Semester 6</b>		<b>Hrs .</b>
CS 335 or CS 338	Intermediate COBOL Advanced C++	3	CS 331,336 or 339	Visual Basic.net / JAVA prog / or Data Structures and Algorithms	3
CS 351	System Dev Methodologies	3	CS 342	Computer Hardware	3
BAD 101	Introduction to Business	3	CS 451	System Development Project	3
U D Elective	MKT 321 Marketing suggested *	3	ACC 246	Principles of Accounting I	3
ECO 201	Macro Economics	3	Approved EL	BAD 310 Management suggested	3
			Area 9	PED Activity	1
- TOTAL :		<b>15</b>	<b>TOTAL :</b>		<b>16</b>

Semester 7		Hr s.	Semester 8		Hrs .
CS 360, 442, or 486	End User Training / Networking & Data Com / Network Security **	3	Gen Elective	ECO 202 Micro Economics suggested	3
Gen Elective	CET 105 Engineering Graphics I or BAD 275 Business Law I *	3	Gen Elective	GIS 208 Intro to GIS or ACC 247 Accounting II *	3
CS UD course	CS 344 or CS 341 or CS 446 suggested	3	UD Elective	CS 310 or CS 385 or CIS 498 suggested	3
CS 443	CIS Communication ***	3	CS 460	CIS Seminar	1
Approved EL	MKT 309 Advertising suggested	3	LS 101	Gen Ed suggestion	1
			Area 8	BAD 215 Intro to GI Bus suggested	3
- TOTAL :		15	TOTAL :		14

\*BAD 275, ACC 247, ECO 202, & MKT 321 are suggested if interested in the MBA in MIS program

\*\*If CS 442 is not selected in semester 7, CS 310 must be selected in semester 8 to fulfill the emphasis area requirement. \*\*\* writing intensive course

**Total Required Hours -- 121**

**BS in Computer Information Systems  
Networking Pathway  
Academic Map (Fall Admission)**

Semester 1		Hr s.	Semester 2		Hrs .
MAT 111	Intermediate Algebra	3	MAT 112 or MAT 113	Applied or College Algebra	3
ENG 101	Comp and Rhetoric I	3	CS 105	Bus App for Microcomputer	3
GE 101	University Seminar	1	ENG 102	Comp and Rhetoric II	3

CS 101	Intro to CS / CIS	3	Area 5A	PSC 203 or 204 or HIS 205 or 206	3
Area 5C	PSY 101 General Psychology	3	Area 6	ART 100 or MUS 200 suggested	3
PED 111	Personal & Community Health	2			
<b>TOTAL:</b>		<b>15</b>	<b>TOTAL:</b>		<b>15</b>

<b>Semester 3</b>		<b>Hr s.</b>	<b>Semester 4</b>		<b>Hrs .</b>
MAT 117	Elementary Statistics	3	CS 321	Data Files and Databases	3
SPT 206	Fundamentals Of Speech	3	CS 237	Intro to C++	3
CS 205	Advanced Microcomputer App	3	Area 6	PHI 101 or 102 suggested	3
Area 5B	HIS 101 or HIS 102 World Civil I/II	3	Area 7	SA 200 or HIS 203 suggested	3
Area 4	PHY 103 or 105 suggested	3	Area 4	ENV 103/104L suggested	4
<b>- TOTAL :</b>		<b>15</b>	<b>TOTAL :</b>		<b>16</b>

<b>Semester 5</b>		<b>Hr s.</b>	<b>Semester 6</b>		<b>Hrs .</b>
CS 442	Networking & Data Comm.	3	CS 445	Networking and Microsoft IIS	3
CS 351	System Dev Methodologies	3	CS 342	Computer Hardware	3
BAD 101	Introduction to Business	3	ACC 246	Principles of Accounting I	3
U D Elective	MKT 321 Principles of Marketing *	3	Gen Elective	ECO 202 Micro Economics *	3
ECO 201	Macro Economics	3	Approved EL	BAD 310 Management suggested	3
			Area 9	PED activity	1
<b>- TOTAL :</b>		<b>15</b>	<b>TOTAL :</b>		<b>16</b>

Semester 7		Hrs.	Semester 8		Hrs.
Gen Elective	GIS 208 Intro to GIS or ACC 247 Accounting II *	3	CS 310	Operating Systems	3
Gen Elective	CET 105 Engineering Graphics I or BAD 275 Business Law I *	3	UD Elective	CS 385 Directed Tutoring or CS 497 Networking Internship suggested	3
CS UD course	CS 331 or CS 336 or CS 360 or CS 344 or CS 446 suggested	3	CS 451	System Development Project	3
CS 443	CIS Communication **	3	CS 460	CIS Seminar	1
Approved EL	MKT 309 Advertising suggested	3	LS 101	Gen Elective suggestion	1
			Area 8	BAD 215 Intro to Global Business suggested	3
- TOTAL :		15	TOTAL :		14

\*BAD 275, ACC 247, ECO 202, & MKT 321 are suggested if interested in the MBA in MIS program

\*\* writing intensive course

**Total Required Hours --- 121**

**BS in Computer Information Systems  
Web Development Pathway  
Academic Map (Fall Admission)**

Semester 1		Hrs.	Semester 2		Hrs.
MAT 111	Intermediate Algebra	3	MAT 112 or MAT 113	App or College Algebra	3
ENG 101	Comp and Rhetoric I	3	CS 105	Bus App for Microcomputer	3
GE 101	University Seminar	1	ENG 102	Comp and Rhetoric II	3

CS 101	Intro to CS / CIS	3	Area 5A	PSC 203 or 204 or HIS 205 or 206	3
Area 5C	PSY 101: General Psychology	3	Area 6	ART 100 or MUS 200 suggested	3
PED 111	Personal & Community Health	2			
<b>TOTAL:</b>		<b>15</b>	<b>TOTAL:</b>		<b>15</b>

<b>Semester 3</b>		<b>Hr s.</b>	<b>Semester 4</b>		<b>Hrs .</b>
MAT 117	Elementary Statistics	3	CS 321	Data Files and Databases	3
SPT 206	Fundamentals Of Speech	3	CS 237	Intro to C++	3
CS 205	Advanced Microcomputer App	3	Area 6	PHI 101 or 102 suggested	3
Area 5B	HIS 101 World Civil I suggested	3	Area 7	SA 200 or HIS 203 suggested	3
Area 4	PHY 103 or 105 suggested	3	Area 4	ENV 103/104L suggested	4
<b>- TOTAL :</b>		<b>15</b>	<b>TOTAL :</b>		<b>16</b>

<b>Semester 5</b>		<b>Hr s.</b>	<b>Semester 6</b>		<b>Hrs .</b>
CS 341	Computer Graphics	3	CS 336	Internet Programming with JAVA	3
CS 351	System Dev Methodologies	3	CS 342	Computer Hardware	3
BAD 101	Introduction to Business	3	ACC 246	Principles of Accounting I	3
UD Elective	MKT 321 Marketing *	3	CS 451	System Development Project	3
ECO 201	Macro Economics	3	Approved EL	BAD 310 Management suggested	3
			Area 9	PED activity	1
<b>- TOTAL</b>		<b>15</b>	<b>TOTAL :</b>		<b>16</b>

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Semester 7		Hr s.	Semester 8		Hrs .
Gen Elective	GIS 208 Intro to GIS or ACC 247 Accounting II *	3	CS 344	Web Design	3
Gen Elective	CET 105 Engineering Graphics I or BAD 275 Business Law I *	3	Gen Elective	ECO 202 Micro Economics *	3
CS UD course	CS 442 or CS 360 or CS 446 suggested	3	UD Elective	CS 385 Directed Tutoring or CIS 498 Internship suggested	3
CS 443	CIS Communication **	3	CS 460	CIS Seminar	1
Approve d EL	MKT 309 Advertising suggested	3	LS 101	Gen Elective suggestion	1
			Area 8	BAD 215 Intro to GI Bus suggested	3
- TOTAL :		15	TOTAL :		14

\*BAD 275, ACC 247, ECO 202, & MKT 321 are suggested if interested  
in the MBA in MIS program

\*\* writing intensive course

**Total Required Hours --- 121**

**AAS in Computer Science**

**CIS Pathway**

**Academic Map (Fall Admission)**

Semester 1		Hr s.	Semester 2		Hrs .
MAT 112 or 113	Applied or College Algebra	3	MAT 117	Elementary Statistics	3
ENG 101	Comp & Rhetoric I	3	ENG 102	Comp/Rhetoric II	3
GE 101	University Seminar	1	Area 5A	PSC 203 or 204 or HIS 205 or 206	3
CS 101	Intro to CS / CIS	3	CS 235	Intro to COBOL	3

CS 105	Bus App for Microcomputer	3	Approved Elective	BAD 215: Intro Global Business suggested	3
CS 237	Intro to C++	3			
<b>TOTAL:</b>		<b>16</b>	<b>TOTAL:</b>		<b>15</b>

<b>Semester 3</b>		<b>Hrs.</b>	<b>Semester 4</b>		<b>Hrs.</b>
CS 351	System Dev Methodologies	3	CS 321	Data Files and Databases	3
CS 338	Object Oriented Programming	3	CS 310	Network Operating Systems	3
ECO 201 or ECO 202	Macro Economics / Micro Economics	3	CS Elective	CS 205: Advanced Microcomputer Apps suggested	3
ACC 246	Principles of Accounting I	3	CS Elective	CS 344: Web Design suggested	3
CS 335	Intermediate COBOL	3	Approved Elective	BAD 101: Intro to Business suggested	3
			SPT 206	Fundamental of Speech	3
<b>- TOTAL :</b>		<b>15</b>	<b>TOTAL :</b>		<b>18</b>

**Total Required Hours --- 64**

**AAS in Computer Science  
CS Pathway  
Academic Map (Fall Admission)**

<b>Semester 1</b>		<b>Hrs.</b>	<b>Semester 2</b>		<b>Hrs.</b>
MAT 121	Pre-Calculus	5	MAT 123	Calculus I	5
ENG 101	Comp & Rhetoric I	3	ENG 102	Comp/Rhetoric II	3

GE 101	University Seminar	1	Area 5A	PSC 203 or 204 or HIS 205 or 206	3
CS 101	Intro to CS / CIS	3	CS 237	Intro to C++ Programming	3
CS 105	Bus App for Microcomputer	3	CS 321	Data Files and Databases	3
<b>TOTAL:</b>		<b>15</b>	<b>TOTAL:</b>		<b>17</b>

<b>Semester 3</b>		<b>Hr s.</b>	<b>Semester 4</b>		<b>Hrs .</b>
CS 351	System Dev Methodologies	3	CS 339	Data Structure and Algorithm	3
CS 338	Object Oriented Programming	3	CS 310	Network Operating Systems	3
Science + Lab	PHY 101: College Physics I suggested	4	Approved Elective	CS 205: Adv Microcomputer Apps or ET 201: Digital Design suggested	3
SPT 206	Fundamental of Speech	3	MAT 117	Elementary Statistics	3
MAT 315	Tech of Mathematical Proofs	3	Science	PHY 103: Earth Science or PHY 105: Intro to Astronomy or ENV 103: Intro to ENV Science suggested	3
<b>- TOTAL :</b>		<b>16</b>	<b>TOTAL :</b>		<b>15</b>

**Total Required Hours --- 63**

### Course Requirements

Leading to a Minor in Computer Information Systems  
(A minimum of 21 hours is required)

**The following specific courses are required (with a grade of “C” or better) for an**



<b>Associate of Applied Science</b>		
<b>Core Courses</b>		
CS 101	Intro to Computer Science & Computer Information Systems	3
CS 105	Business Apps for the Micro Computer	3
CS 235 or CS 237	Intro to Business Application Programming using COBOL <b>or</b> Introduction to C++ Programming	3
	<b>Total</b>	<b>9</b>
<b>Approved Computer Science Upper Division (above 300 level) Electives</b>		<b>6</b>
<b>Approved Computer Science Electives</b>		<b>6</b>
<b>Total Hours Required</b>		<b>21</b>

# TECHNOLOGY

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## DEPARTMENT OF COMPUTER SCIENCE, TECHNOLOGY AND MATHEMATICS

Assistant Professors: Meysami

### **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 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
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-Engineering program

transfer to these schools to complete their B.S. degree in their respective engineering fields. Therefore, the success of Lincoln University students who transfer to complete their degrees (Engineering Design Phase) to other engineering schools is a quantitative measure of the students outcome as well as the qualitative measure of the pre-engineering program. To that end, Lincoln has been requesting yearly reports from these schools as to the status of the transfer students. Yearly reports of each student's GPA, as well as success rates and duration each of student's stay at these schools are received yearly. This will be continued and data collected shall be used as an assessment tool.

### **Computer Skills Requirement**

CS 103 or CS 105, or CS 237 is required for all majors.

### **Required Courses**

**Majors:** Bachelor of Science Degree Programs

**Civil Engineering Technology:** A student may major in Civil Engineering Technology by completing the following with a minimum grade of “

**CET 105, 106, 201, 202, 211, 212, 250, 304, 310, 320, 331, 360, 361, 401, 402, 414; CS 105, 237; MAT 121 (or MAT 113 & 114), MAT 123; PHY 101 and 102.**

**Majors:** Associate in Applied Science Degree Program (two-year)

**Drafting Technology:** A minimum grade of “C” in CET 105, 106, 211, 212, 310, 320, 414; ET 104; CS 105; MAT 121 (or MAT 113 & 114) GE 101; ENG 101, 102; SPT 206; PSC 203 or 204 or HIS 205 or HIS 206 and 16 hours of approved electives selected from CET, CS, MAT, PHY, CHM or other approved areas. **Minor:** A student may minor in any of the curricula above by satisfactorily completing a minimum of 18 hours with a minimum grade of “C” in the curriculum selected, including 6 upper division hours.

**Major:** Associate of Science Degree Program (two-year)

**Pre-engineering:** Lincoln University has a cooperative agreement with the Missouri University of Science and Technology and University of Missouri Columbia that allows students to take the first two years of coursework at Lincoln, culminating in an A.S. degree, and the remaining two years at Missouri S&T or UMC in the engineering curriculum chosen. A minimum grade of C in MAT 123, MAT 203, MAT 304, MAT 324, CHM 101, PHY 201 and 202, CET 105, CET 106 or CS 237, CET 201, ET 104 or MAT 415. In addition majors must take ENG 101, 102, GE 101, PSC 203 (or HIS 205 or HIS 206), ECO 201 and an elective in humanities or social studies. Depending on the engineering curriculum chosen, students may take additional courses from the list: CHM 102, CET, 202, 212, 250 and 331.

### **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). 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). 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, LF). This course is an engineering focused drafting course utilizing Computer-Aided Drafting and Design (CADD) software that develops 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 AND INTERMEDIATE SURVEYING.** (4, LF): Theory and application of the principles of plane surveying, leveling, traverse computation and topographic surveying. Engineering surveying to include building layout, highway vertical and horizontal curves and the survey of bridges, tunnels and earthwork. Three hours of lecture and three hours of lab.
- CET 250 ENGINEERING MECHANICS-DYNAMICS.** (3). 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). 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). 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 320 ARCHITECTURAL WORKING DRAWING AND BLUEPRINT READING.** (3, 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, LF). Tests to determine the physical properties and behavior of construction and engineering materials including steel, iron-carbon alloys, aluminum, concrete, wood and plastics. ASTH AASHTO testing procedures, instrumentation and the analysis and interpretation of test data. Three hours lab. Prerequisites: CET 201 and concurrent enrollment in CET 310.
- 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, sp). 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). 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, 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). 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). 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). 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 103 INTRODUCTION TO ELECTRICITY AND RESIDENTIAL WIRING CONCEPTS.** (3). This course develops the skills and concepts necessary for planning and installing electrical equipment in residential occupancies. And it provides hands-on experience in the installation, conductors, boxes and power distribution equipment in residences. Three hours lecture with lab. Prerequisite: MAT 111

**ET 104 CIRCUIT ANALYSIS.** (3). Study of the network theorems and methods of analysis of 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.

**ET 105 ELECTRONIC AMPLIFIER.** (3). Study of amplifier principles, integrator, differentiator, low-pass and other types of filters, analog circuit design, voltage and current regulators, signal generators. Two hours lecture and two hours lab. Prerequisites: ET 101, MAT 113.

**ET 201 INSTRUMENTATION AND MEASUREMENT.** (3, LF). Study of the theory of operation, the characteristics, the applications of measurement instruments such as analog and digital multimeters, bridges, oscilloscopes, potentiometers, network analyzers. Two hours lecture and four hours lab. Prerequisites: ET 104, 105; MAT 114.

**ET 202 COMMUNICATION CIRCUIT.** (3, fa, LF). Understanding the communication fundamentals, such as waveform spectra, audio signals, noise. Study of communication circuits, such as series and parallel tuned circuits, coupling circuits, filters, RF and IF amplifiers and oscillators. Two hours lecture and two hours lab. Prerequisite: ET 101.

**ET 203 ELECTRONIC DEVICES.** (3, LF). Understanding of the basic semiconductor theory, characteristics, parameters, specification, performance, and simple circuit applications of diode and transistors. Two hours lecture and two hours lab. Prerequisites: ET 101, MAT 113.

**ET 205 COMMUNICATION CIRCUITS AND SYSTEMS.** (3, LF). Understanding communications fundamentals, such as waveform spectra, audio signals, noise. Study of communication circuits, such as series and parallel tuned circuits, coupling circuits, filters, RF and IF amplifiers, and oscillators. Two hours lecture and two hours lab. Prerequisite: ET 101.

**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

- ET 212 INTRODUCTION TO MICROPROCESSING.** (3, LF). Study of the central processing unit (CPU), memory addressing modes, input/output operation and interfacing, system controller and bus driver, arithmetic logic unit (ALU), encoding and decoding instructions, clock generator driver, devices, connections to bus lines. Two hours lecture and two hours lab. Prerequisite: ET 211.
- ET 214 ELECTRONIC DESIGN AND FABRICATION.** (3, LF). Design and layout of circuits on printed circuit boards, fabrication testing, and evaluation of special circuits. Two hours lecture and two hours lab. Prerequisites: ET 103, 105.
- ET 215 INTRODUCTION TO ADVANCED ELECTRONIC DEVICES.** (3). Study of semiconductor theory, semiconductor diode, bipolar junction transistor, field-effect transistor theory and applications of analog to digital and digital to analog converters. Three hours lecture. Prerequisites: ET 103, 104, 105, 203.

### 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.

### BS in Civil Engineering Technology Pathway Academic Map (Fall Admission)

Semester 1		Hr s.	Semester 2		Hrs .
MAT 111	Intermediate Algebra	3	MAT 121	Pre-Calculus	5
ENG 101	Comp and Rhetoric I	3	ENG 102	Comp and Rhetoric II	3
GE 101	University Seminar	1	CET 106	Engineering Graphics II	3
CET 105	Engineering Graphics I	3	Area 5B	HIS 101 World Civil I suggested	3
Area 5C	PSY 101: General Psychology	3	LS 101	Elective suggested	1
PED 111	Personal & Community Health	2			

<b>TOTAL:</b>		<b>15</b>	<b>TOTAL:</b>		<b>15</b>
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<b>Semester 3</b>		<b>Hr s.</b>	<b>Semester 4</b>		<b>Hrs .</b>
MAT 123	Calculus I	5	Area 5A	PSC 203 or 204 or HIS 205 or 206	3
SPT 206	Fundamentals Of Speech	3	Area 6	PHI 101 or 102 suggested	3
CET 212	Elementary Surveying	4	PHY 102	College Physics II	4
PHY 101	College Physics I	4	CET 201	Engineering Mechanics - statics	4
			Area 9	PED Activity	1
- TOTAL :		<b>16</b>	TOTAL :		<b>15</b>

<b>Semester 5</b>		<b>Hr s.</b>	<b>Semester 6</b>		<b>Hrs .</b>
CET 310	Construction Techniques	3	CET 250	Engineering Mech-Dynamics	3
CET 202	Strength of Materials	4	Area 5D	SOC 301Family suggested	3
CET 320	Architectural Drawing	3	CET 211	Civil Engineering Drawing	3
CS 105	Bus App for Microcomputers	3	CS 237	Intro to C++ Programming	3
CET 331	Materials Testing	1	Area 7	SA200 or ENG308 or HIS402 *	3
- TOTAL :		<b>14</b>	TOTAL :		<b>15</b>

<b>Semester 7</b>		<b>Hr s.</b>	<b>Semester 8</b>		<b>Hrs .</b>
CET 304	Structural Analysis	4	CET 401	Reinforced Concrete	4
CET 360	Soil Mechanics	4	CET 402	Steel Design	3
CET 361	Soil Mechanics lab	1	UD Elective	Web Design suggested	3
CET 414	Building Engineering Sys Design **	3	Area 8	HIS 102 or SA 202 or ENG 320 *	3



UD Elective	MAT 405 or MAT 415 suggested	3	Area 6	ART 100, ART 331, MUS 200 *	3
- TOTAL :		15	TOTAL :		16

\*Upper division courses are suggested in two of the Areas 6, 7, & 8 \*\* writing intensive course

**Total Required Hours - 121**

**AS in Pre-Engineering  
Pathway  
Academic Map (Fall Admission)**

Semester 1		Hr s.	Semester 2		Hrs .
MAT 123	Calculus I	5	MAT 203	Calculus II	5
ENG 101	Comp & Rhetoric I	3	ENG 102	Comp/Rhetoric II	3
GE 101	University Seminar	1	Area 5A	PSC 203 or 204 or HIS 205 or 206	3
CHM 101	General Chemistry I	4	CS 237 or CET 106	Intro to C++ Programming or Engineering Graphics II	3
CET 105	Engineering Graphics I	3			
TOTAL:		16	TOTAL:		14

Semester 3		Hr s.	Semester 4		Hrs .
PSY 101 or SA201	General Psychology or Intro to Sociology suggested	3	MAT 304	Calculus III	5
ECO 201	Macro Economics	3	MAT 324	Differential Equations	3
ET 104 or MAT	Circuit Analysis or Mathematical	3	CET 201	Engineering Mechanics - Statics	4

415	Statistics				
PHY 201	General Physics I	5	PHY 202	General Physics II	5
- TOTAL :		<b>14</b>	TOTAL :		<b>17</b>

Note:

Depending on the Engineering degree chosen, students may take additional courses from the following list:

CET 202: Strength of Materials	4 credit hours
CET 212: Elementary Surveying	4 credit hours
CET 250: Engineering Mechanics – Dynamics	3 credit hours
CET 331: Materials Testing Laboratory	1 credit hour
CHM 102: General Chemistry II	4 credit hours

**Total Required Hours --- 61**

**AAS in Drafting Technology  
Pathway  
Academic Map (Fall Admission)**

Semester 1		Hr s.	Semester 2		Hrs .
MAT 121	Pre-Calculus	5	SPT 206	Fundamentals of Speech	3
ENG 101	Comp & Rhetoric I	3	ENG 102	Comp/Rhetoric II	3
GE 101	University Seminar	1	CET 106	Engineering Graphics II	3
Approved Elective	MAT 117: Elementary Statistics suggested	3	Area 5A	PSC 203 or 204 or HIS 205 or 206	3
CET 105	Engineering Graphics I	3	Approved Elective	MAT 123: Calculus I suggested	5
TOTAL:		<b>15</b>	TOTAL:		<b>17</b>

Semester 3	Hr s.	Semester 4	Hrs .
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CET 310	Construction Techniques	3	CET 211	Civil Engineering Drawing	3
Approved Elective	PHY 101: College Physics I suggested	4	CET 414	Building Engineering Design	3
CET 320	Architectural Working Drawing	3	Approved Elective	CET 201: Engineering Mechanics suggested	4
CET 212	Elementary & Inter Surveying	4	CS 105	Business App for Microcomputer	3
ET 104	Circuit Analysis	3			
- TOTAL :		<b>17</b>	TOTAL :		<b>13</b>

**Total Required Hours --- 62**

# MATHEMATICS

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## DEPARTMENT OF COMPUTER SCIENCE, TECHNOLOGY AND MATHEMATICS

Professors: Balakumar, , Sturdevant

Associate Professors: Morian, Rant

Assistant Professors: Stallings

Instructors: Clark, Jackson, Schaefer

### **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 50 BASIC MATHEMATICS.** (3). A course designed to review the fundamentals of basic mathematics, to introduce pre-algebra concepts and to build numeracy and problem-solving skills. *May not be used to satisfy any University mathematics requirement.*

**MAT 51 BASIC ALGEBRA.** (3). A course in beginning algebra which includes topics such as basic operations with polynomials, equations, factoring and graphing. Course will facilitate development of problem solving skills and confidence in mathematical competencies. Prerequisite: MAT 50 with a grade of “C” or better or satisfactory placement score. *May not be used to satisfy any University mathematics requirement.*

**MAT 51C BASIC MATHEMATICS AND ALGEBRA.** (4, fa, sp). This course will cover all materials included in the traditional MAT 50 and MAT 51 course. Prerequisites: MPE score 12-15 or placement in MAT 51.

**MAT 111 INTERMEDIATE ALGEBRA.** (3). Linear equations and inequalities, graphing, linear systems, polynomials, factoring, rational expressions, radicals, and quadratic equations. Prerequisite: MAT 51 with a grade of “C” or better or satisfactory placement score.

**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). 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). 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). 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 111 or equivalent with a grade of “C” or better or satisfactory placement score.
- MAT 117 ELEMENTARY STATISTICS.** (3). 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). 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). 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). 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). 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). 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). 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). 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). 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). 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). 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). 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). 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). 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). Algebraic structures; groups, rings and fields. Prerequisite: MAT 315.
- MAT 413 INTRODUCTION TO REAL ANALYSIS.** (3). 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). 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/ SPECIAL TOPICS IN MATHEMATICS.** (1-5). Topic to be listed schedule; may re-enroll in **422** as topic changes. Prerequisite: 18 hours of required major courses and consent of instructor.
- MAT 450 INDEPENDENT STUDY.** (3). 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). Programming techniques for mathematics/science majors. Prerequisites: MAT 203 and concurrent enrollment in MAT 304.
- MAT 467 NUMERICAL ANALYSIS.** (3). 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.



**BA in Mathematics**  
**Classical/Applied/CS Pathways**  
**Academic Map (Fall Admission)**

<b>Semester 1</b>		<b>Hr s.</b>	<b>Semester 2</b>		<b>Hrs .</b>
MAT 111	Intermediate Algebra	3	MAT 121	Pre-Calculus	5
ENG 101	Comp & Rhetoric I	3	ENG 102	Comp/Rhetoric II	3
GE 101	University Seminar	1	Area 4	PHY 103/104L suggested	4
Area 5C	PSY 101: General Psychology	3	Area 5A	PSC 203 or 204 or HIS 205 or 206	3
PED 111	Personal & Community Health	2			
Area 6	ART 100 or MUS 200 suggested	3			
<b>TOTAL:</b>		<b>15</b>	<b>TOTAL:</b>		<b>15</b>

<b>Semester 3</b>		<b>Hr s.</b>	<b>Semester 4</b>		<b>Hrs .</b>
MAT 123	Calculus I	5	MAT 203	Calculus II	5
SPT 206	Fundamentals Of Speech	3	Area 4	ENV 103 or PHY 105 suggested	3
Area 6	PHI 101 or 102 suggested	3	MAT 117 or CS 237	Elementary Statistics or Intro to C++ Programming <sup>1</sup>	3
Area 5B	HIS 101 World Civil I suggested	3	MAT 406	History of Math *	3
Area 9	PED Activity	1			
- <b>TOTAL</b> :		<b>15</b>	<b>TOTAL</b> :		<b>14</b>

<b>Semester 5</b>		<b>Hr s.</b>	<b>Semester 6</b>		<b>Hrs .</b>
MAT 315	Tech of Mathematical Proofs	3	MAT 304	Calculus III	5
MAT 405 or CS 338	Applied Statistics or Advanced C++ Programming <sup>2</sup>	3	Gen Elective	CS 105: Bus App for Microcomp or ET 104: Circuit Analysis	3

				suggested	
Foreign Lang Requirement	FRE or SPA course	3	MAT 461 or CS 339	Mathematical Programming or Data Structure & Algorithm <sup>3</sup>	3
Gen Elective	MAT 119: Geo-Stat Elem Teachers or CS 101: Intro to CS/CIS or Engineering Graphics I suggested	3	Area 5D	SA 201 or ECO 201 or SOC 301	3
U D Elective	MAT 301: Elem of Function Anal or MAT 302: Elem of Geometry suggested	3	Foreign Lang Requirement	FRE or SPA course	3
- TOTAL :		15	TOTAL :		17

Semester 7		Hrs.	Semester 8		Hrs.
MAT 467 or MAT 409 or U D course	Numerical Analysis or Abstract Algebra or an upper division course <sup>4</sup>	3	UD Elective	MAT 407: Modern Geometry suggested	3
U D Elective	MAT 390: Directed Tutoring or an upper division course	3	MAT 324	Differential Equations	3
Foreign Lang Requirement	Upper Division FRE or SPA course	3	Foreign Lang Requirement	Upper Division FRE or SPA course	3
MAT 403	Linear Algebra	3	Area 7	SA 200 or HIS 203 suggested	3
Area 8	HIS 102 or SA 202 suggested	3	MAT 413	Real Analysis or U D Elective <sup>5</sup>	3
- TOTAL :		15	TOTAL :		15

- 1: Choose MAT 117 for applied option or CS 237 for CS option
  - 2: Choose MAT 405 for applied option or CS 338 for CS option
  - 3: Choose MAT 461 for applied & classical options or CS 339 for CS option
  - 4: Choose MAT 467 for applied option or MAT 409 for classical option or an upper division course (CS 321 suggested) for CS option;
  - 5: Choose MAT 413 for classical or applied option or CS 336 suggested for CS option
- \*: Writing Intensive course

**Total Required Hours -- 121**

**BS in Mathematics  
Classical Pathway  
Academic Map (Fall Admission)**

<b>Semester 1</b>		<b>Hrs.</b>	<b>Semester 2</b>		<b>Hrs.</b>
MAT 111	Intermediate Algebra	3	MAT 121	Pre-Calculus	5
ENG 101	Comp & Rhetoric I	3	ENG 102	Comp/Rhetoric II	3
GE 101	University Seminar	1	Area 4	PHY 103/104L suggested	4
Area 5C	PSY 101 General Psychology	3	Area 5A	PSC 203 or 204 or HIS 205 or 206	3
PED 111	Personal & Community Health	2			
Area 6	ART 100 or MUS 200 suggested	3			
<b>TOTAL:</b>		<b>15</b>	<b>TOTAL:</b>		<b>15</b>

<b>Semester 3</b>		<b>Hrs.</b>	<b>Semester 4</b>		<b>Hrs.</b>
MAT 123	Calculus I	5	MAT 203	Calculus II	5
SPT 206	Fundamentals Of Speech	3	Area 4	ENV 103 suggested	3
Area 6	PHI 101 or 102 suggested	3	General Elective	MAT 117 Elementary Statistics suggested	3
Area 5B	HIS 101 World Civil I suggested	3	MAT 406	History of Math **	3
Area 9	PED Activity	1			
<b>- TOTAL:</b>		<b>15</b>	<b>TOTAL:</b>		<b>14</b>

Semester 5		Hrs	Semester 6		Hrs
MAT 315	Tech of Mathematical Proofs	3	MAT 304	Calculus III	5
U D Elective	MAT 405 Applied Statistics suggested	3	Gen Elective	CS 105 Bus App for Microcomp or ET 104: Circuit Analysis suggested	3
Gen Elective	MAT 119 Geo-Stat Elem Teachers or CS 101 Intro to CS/CIS or CET 105 Engineering Graphics I suggested	3	MAT 461	Mathematical Programming	3
Gen Elective	BT 212 Intro to Biotech suggested	3	Gen Elective	PHY 105 Intro Astronomy *	3
U D Elective	MAT 301 Elem of Function Anal or MAT 302 Elem of Geometry or any upper division course	3	Area 5D	SA 201 or ECO 201 or SOC301	3
- TOTAL :		15	TOTAL :		17

Semester 7		Hrs	Semester 8		Hrs
UD Elective	MAT 467 Numerical Analysis *	3	MAT 413	Real Analysis	3
U D Elective	MAT 390: Directed Tutoring *	3	MAT 324	Differential Equations	3
MAT 409	Abstract Algebra	3	Gen Elective	GIS 208 Intro to GIS suggested	3
MAT 403	Linear Algebra	3	Area 7	SA 200 or HIS 203 suggested	3
Area 8	HIS 102 or SA 202 suggested	3	UD Elective	MAT 407 Modern Geometry *	3
- TOTAL :		15	TOTAL :		15

## Total Required Hours -- 121

\* These are suggested courses \*\*Writing Intensive course

### BS in Mathematics Applied Pathway Academic Map (Fall Admission)

Semester 1		Hr s.	Semester 2		Hrs .
MAT 111	Intermediate Algebra	3	MAT 121	Pre-Calculus	5
ENG 101	Comp & Rhetoric I	3	ENG 102	Comp/Rhetoric II	3
GE 101	University Seminar	1	Area 4	PHY 103/104L suggested	4
Area 5C	PSY 101 General Psychology	3	Area 5A	PSC 203 or 204 or HIS 205 or 206	3
PED 111	Personal & Community Health	2			
Area 6	ART 100 or MUS 200 suggested	3			
TOTAL:		15	TOTAL:		15

Semester 3		Hr s.	Semester 4		Hrs .
MAT 123	Calculus I	5	MAT 203	Calculus II	5
SPT 206	Fundamentals Of Speech	3	Area 4	ENV 103 or PHY 105 suggested	3
Area 6	PHI 101 or 102 suggested	3	MAT 117	Elementary Statistics	3
Area 5B	HIS 101 World Civil I suggested	3	MAT 406	History of Math *	3
Area 9	PED Activity	1			
- TOTAL :		15	TOTAL :		14

Semester 5		Hr s.	Semester 6		Hrs .
MAT	Tech of	3	MAT	Calculus III	5

315	Mathematical Proofs		304		
MAT 405	Applied Statistics	3	Gen Elective	CS 105 Bus App for Microcomp or ET 104: Circuit Analysis **	3
Gen Elective	MAT 119 Geo-Stat Elem Teachers or CS 101 Intro to CS/CIS or CET 105 Engineering Graphics I **	3	MAT 461	Mathematical Programming	3
Gen Elective	BT 212 Intro to Biotech suggested	3	Gen Elective	CS 237 Intro to C++ Programming suggested	3
U D Elective	MAT 301: Elem of Function Anal or MAT 302: Elem of Geometry- or any upper div course **	3	Area 5D	SA 201 or ECO 201 or SOC301 suggested	3
- TOTAL :		15	TOTAL :		17

Semester 7		Hr s.	Semester 8		Hrs .
MAT 467	Numerical Analysis	3	U D Elective	MAT 390: Directed Tutoring suggested	3
U D Elective	MAT 390: Directed Tutoring or any UD course suggested	3	MAT 324	Differential Equations	3
U D Elective	MAT 409: Abstract Algebra suggested	3	Area 7	SA 200 or HIS 203 suggested	3
MAT 403	Linear Algebra	3	Area 8	SA 202 or HIS 102 suggested	3
Gen Elective	GIS 208: Intro to GIS suggested	3	U D Elective	MAT 407: Modern Geometry **	3
- TOTAL :		15	TOTAL :		15

**Total Required Hours -- 121**

\*Writing Intensive course \*\* Suggested courses

**BS Ed in Mathematics  
Pathway  
Academic Map (Fall Admission)**

<b>Semester 1 (pre-education)</b>		<b>Hr s.</b>	<b>Semester 2 (pre-education)</b>		<b>Hrs .</b>
MAT 123	Calculus I	5	MAT 203	Calculus II	5
ENG 101	Comp and Rhetoric I	3	ENG 102	Comp and Rhetoric II	3
GE 101	University Seminar	1	Area 4	PHY 103 or ENV 103	3
Area 5C	PSY 101 Gen Psychology	3	Area 5A	HIS 205 or 206 US History	3
Area 6	ART 100 or MUS 200 suggested	3	PED 111	Personal & Community Health	2
<b>TOTAL:</b>		<b>15</b>	<b>TOTAL:</b>		<b>16</b>

<b>Semester 3 (pre-education)</b>		<b>Hr s.</b>	<b>Semester 4 (pre-education)</b>		<b>Hrs .</b>
Area 5B	HIS 101 or 102 World Civil I or II	3	MAT 304	Calculus III	5
SPT 206	Fundamentals Of Speech	3	EDU 202	Observations in Education	1
Area 4	BIO 103/104L-science w/lab	4	Area 8	EDU 260: Edu and Cultural Div	3
Area 5D	SA201/202/SOC301/ECO201	3	SE 221	Education of the Except Child	2
Area 6	PHI 101 or 102 suggested	3	EDU 204	Educational Psychology	3
			EDU 251	Prof Ed Legal & Ethical Issues	3
- TOTAL :		<b>16</b>	<b>TOTAL :</b>		<b>17</b>

<b>Semester 5 (pre-education)</b>		<b>Hr s.</b>	<b>Semester 6 (pre-education)</b>		<b>Hrs .</b>
Area 9	PED Activity	1	MAT 417M	Methods in Content Field	2
MAT 405	Applied Statistics	3	MAT 407	Modern Geometry	3

EDU 317	Differentiated Instruction	3	MAT 461	Mathematical Programming	3
MAT 315	Tech of Mathematical Proofs	3	EDU 325	Assessment and Data Driven	3
EDU 322	Adolescent Development	3	MAT 406	History of Mathematics *	3
EDU 316	Techniques of Teaching	3	EDU 420	Reading in the Content Field	3
- TOTAL :		<b>16</b>	TOTAL :		<b>17</b>

Semester 7		Hr s.	Semester 8		Hrs .
EDU 304	Practicum 7-12	1	EDU 474	Student Teaching	10
Area 5A	PSC 203: National Government	3	EDU 475	Seminar in Student Teaching	2
EDU 435	Classroom Management	3			
MAT 403	Linear Algebra	3			
Area 7	SA 200, HIS 203 or MUS 205 **	3			
MAT 409	Abstract Algebra	3			
- TOTAL :		<b>16</b>	TOTAL :		<b>12</b>

**Total Required Hours -- 125**

\* writing intensive course \*\* suggested courses



**Course Requirements**  
For Middle School Endorsement

It is recommended that students add the middle school endorsement (grades 6-8) to their B.S.Ed. in Mathematics (9-12)

MAT 113	College Algebra	3
MAT 119 or MAT 302	Geometry and Statistics for Elementary Teachers or Elements of Geometry	3
EDU 416	Reading and Writing in the Middle School*	4
EDU 460	Middle School Foundation	3
EDU 320	Assessment and Data Driven Decision Making	2
<b>Total</b>		<b>15</b>

**Mathematics Course Requirements**  
Leading to Middle School Certification  
for Elementary Education and Middle School Mathematics Majors

Students must complete a minimum of 25 hours with a minimum grade of “C” in the following courses

MAT 117	Elementary Statistics	3
MAT 119	Geometry and Statistics	3
MAT 121	Pre-Calculus	5
MAT 123	Calculus I	5
MAT 302 or 407	Elements of Geometry or Modern Geometry	3
MAT 315	Techniques of Mathematical Proofs	3
MAT 406	History of Mathematics	3
<b>Total</b>		<b>25</b>

**Note: MAT 111 is a pre-requisite course for MAT 117, MAT 119 and MAT 121**

**Course Requirements**  
Leading to a Minor in Mathematics  
(A minimum of 19 hours is required)

<b>The following specific courses are required (with a grade of “C” or better) for a Minor in Mathematics (choose one option)</b>		
<b>Math Options</b>		
<b>Classical:</b>		
MAT 123	Calculus I	5
MAT 203	Calculus II	5
MAT 315	Techniques of Mathematical Proofs	3
MAT 324	Differential Equations	3
MAT 409	Abstract Algebra	3

	<b>Total</b>	<b>19</b>
<b>Computational:</b>		
MAT 123	Calculus I	5
MAT 203	Calculus II	5
MAT 324	Differential Equations	3
MAT 461	Intro to Mathematical Programming	3
MAT 467	Numerical Analysis	3
	<b>Total</b>	<b>19</b>
<b>Statistics:</b>		
MAT 123	Calculus I	5
MAT 203	Calculus II	5
MAT 405	Applied Statistics	3
MAT 415	Mathematical Statistics	3
MAT 461	Intro to Mathematical Programming	3
	<b>Total</b>	<b>19</b>

# ENGLISH

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## Department of English, Foreign Languages, and Journalism

Professors: Heermance, Lilienfeld  
Associate Professors Frazier, Salmons  
Assistant Professors: Burrell, McGraw  
Instructors: Furey, Wilson

### ENGLISH PROGRAM

#### **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 21<sup>st</sup> 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 compositions for publication

All students completing the B.S. Ed. with a major in English will:

1. compare favorably in knowledge of English education with students completing a similar program nationally
2. be able to choose, organize and deliver appropriate content for secondary English language arts classes
3. be able to demonstrate an understanding of the history, structure, and linguistic variation of the English language

#### **Assessment Program**

Assessment measures allow students and faculty to determine whether students have met the objectives of the program. For the various English degrees, the primary measure of assessment is the portfolio, a collection of papers reflecting the work students do in the major courses. Further explanation of the portfolio and the process for evaluation is contained in the *Handbook for Majors*, given to every student who declares English as a major. The portfolio is a requirement for graduation. All students seeking a degree in English must receive a rating of “Pass” or higher on the portfolio in order to meet this requirement. Portfolio committees meet once per semester. Students who receive a “Fail” rating may resubmit their portfolios the following semester.

#### Other Assessment Measures

1. Literature and creative writing students will take the ETS Literature in English standardized test.
2. Students completing the B.S. Ed. will take the Praxis II (a standardized exam) and complete an education portfolio.

### **Computer Skills Requirement**

Upon completion of an English program at Lincoln, students will have gained basic skills in word processing, electronic mail, and Internet usage. Students will gain necessary computer skills through successful completion of ENG 316 (and other computer-assisted courses, as designated).

### **Required Courses**

A minimum grade of "C" is required in all English courses for the major or minor.

- Major:** B.A. in English with Emphasis in Literature (42 hours)  
ENG 200, 307, 308, 310, 311, 316, 320 or 417, 325, 401, 405 or 409, 410 or 413, 404 or 411, 416, 419.
- Major:** B.A. in English with Emphasis in Creative Writing (42 hours)  
ENG 200, 271, 316, 307 or 308, 310 or 311, 401, 404 or 411, 405 or 409, 320 or 417, 340 or 416, two 300-level workshops, one 400-level workshop, and 474. ENG 330 (Prosody) may be substituted for one 300-level workshop.
- Major:** B.S.Ed. in English (42 hours)  
ENG 200, 307, 308, 310, 311, 316, 320 or 417, 325, 401, 405 or 409, 404 or 411, 416, 419, 490.
- Minor:** English with Emphasis in Literature (21 hours)  
ENG 200, 307 or 308, 316, 310 or 416 or 417, 325 or 335, 310 or 311, and one literature elective.
- Minor:** English with Emphasis in Creative Writing (21 hours)  
ENG 200, 271, 375 or 376 or 377 or 378, 475 or 476, 409, 404 or 411, and 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.** (3). A writing course that focuses on personal, descriptive, and narrative types of essay writing. Prerequisite:

None. Those entering with an ACT English subscore of 17 or less will be placed in a section designated “coremediated” (CR). Such sections require an extra 100 minutes of instruction per week in a laboratory setting. This course, completed with a minimum grade of “C,” is a prerequisite to any higher-numbered English course except ENG 151H-152H.

- ENG 102 COMPOSITION AND RHETORIC II.** (3). 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). A writing course utilizing a variety of texts and non-traditional methods to reach the gifted learner. Expository writing is stressed. Prerequisite: English ACT subscore of 24 or above or permission of instructor.
- ENG 152H HONORS COMPOSITION AND RHETORIC II.** (3). 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). 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 271 INTRODUCTION TO CREATIVE WRITING.** (3). 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 272 WRITING FOR SUBMISSION.** (1). Students will prepare their creative and academic work for submission to magazines, journals and conferences; write query and submission letters; write letters of application and statements of purpose for graduate school.
- ENG 301H HONORS INTRODUCTION TO LITERATURE.** (3). 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 307 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 308 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 310 SURVEY OF ENGLISH LITERATURE I.** (3). The development of English literature through the sixteenth century. Emphasis on major forms and works.
- ENG 311 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 312H VIRGINIA WOOLF AND HER WORKS.** (3). Focuses on selected novels, essays, memoirs, letters, diaries by Virginia Woolf; and plays, novels, films about Woolf, using a variety of critical approaches. This course is designated writing intensive.
- ENG 314H FILM AND FICTION.** (3). A study of film and literature in varied genres, such as Romance, Drama, Mystery, Science Fiction, The Western, and Comedy. Examples include classic and contemporary examples of film and fiction.
- ENG 316 WRITING AND RESEARCH.** (3). 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). 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) An intensive study of the conventions governing grammar in English.
- ENG 330 PROSODY** (3). Focuses on the traditions of prosodic craft in the history of English verse.
- ENG 335 HISTORY OF THE ENGLISH LANGUAGE.** (3). A study of the development of the English language from Anglo Saxon to the present.
- ENG 340 WOMEN AND LITERATURE.** (3). A study of representative stories, novels, poems, essays and memoirs by nineteenth and twentieth century American, European, African, and Asian women writers.
- ENG 343 INTRODUCTION TO FOLKLORE.** (3). Focuses on folklore as a genre. Students will explore samples from African, African American, Native American and European traditions, among others. Students will become familiar with the terminology of the genre and will complete a project involving the collection of folk material.
- 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). 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). 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 377 PLAYWRITING WORKSHOP.** (3). Play and script 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 ENG 101-102 or 151H-152H and ENG 271 with a minimum grade of "C."
- ENG 378 CREATIVE NONFICTION WRITING WORKSHOP.** (3). Creative nonfiction 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. ENG 101-102 or 151H-152H and ENG 271 with a minimum grade of "C."
- ENG 401 SHAKESPEARE.** (3). A study of the sonnets and several plays. Prerequisite: ENG 200.
- ENG 404 THE ROMANTIC MOVEMENT IN ENGLISH POETRY.** (3). 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). Intensive reading of selected prose, drama and poetry of the period. Prerequisite: ENG 200.
- ENG 409 THE NOVEL.** (3). 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 410 DRAMA.** (3). Examines the history, structure and criticism of drama as a literary genre through a historical survey of selected works from the ancient Greeks to contemporary playwrights.
- ENG 411 MODERN POETRY.** (3). Close reading of significant works of British and American poetry, chiefly from the twentieth century. Prerequisite: ENG 200 or 310 or 311.
- ENG 413 MODERN DRAMA.** (3). Close reading of significant works of British, American and continental drama, from the mid-nineteenth century to the present.
- ENG 416 AFRICAN AMERICAN LITERATURE.** (3). Readings in the literary interpretation of the African American experience by African American authors, viewed within a comprehensive, historical context. Prerequisite: ENG 307 or 308.
- ENG 417 CLASSICAL GREEK AND ROMAN LITERATURE.** (3). 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). Critical theories and approaches that have influenced the study of western literature. Prerequisites: ENG 200 and ENG 307 or 308 or 310 or 311.
- 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). 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). 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). 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 490 PROBLEMS AND PRACTICE IN THE TEACHING OF GRAMMAR AND WRITING.** (3). 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.



**BA in English  
Literature Pathway  
Academic Map (Fall Admission)**

Semester 1		Hrs .	Semester 2		Hrs .
GE 101	University Seminar	1	ENV 103/104 L	Introduction to Environmental Science/Lab	4
LS 101	Information Literacy	1	HIS 101	World Civ I	3
PED 111	Pers. & Comm. Health	2	ENG 102	Comp/Rhet II	3
ENG 101	Comp/Rhet I	3	SPA 205	Spanish II	5
SPA 105	Spanish I	5			
MAT 115	Contemporary Math	3			
<b>TOTAL:</b>		<b>15</b>	<b>TOTAL:</b>		<b>15</b>

Semester 3		Hrs .	Semester 4		Hrs .
ENG 200	Intro to Literature	3	ENG 308	American Lit II	3
ENG 307	American Lit. I	3	ENG 311	English Lit. II	3
ENG 310	English Lit I	3	PHY 103	Earth Science	3
HIS 205	United States History I	3	SPT 206	Fundamentals of Speech	3
PSY 101	General Psychology	3	SPA 230+	Any qualifying SPA class 230 or higher.	3
<b>TOTAL:</b>		<b>15</b>	<b>TOTAL:</b>		<b>15</b>

Semester 5		Hrs .	Semester 6		Hrs .
ENG 316	Writing/Research	3	ENG 320	World Literature	3
ENG 325	Grammar	3	ENG 216	African American Literature	3
S/A 201	Introduction to Sociology	3	SPT 209	Introduction to the Theatre	3
ART 330	History and Appreciation of Art	3	HIS 102	World Civ II	3
CD 200		3		Elective/Minor Requirement	3
<b>TOTAL:</b>		<b>15</b>	<b>TOTAL:</b>		<b>15</b>

Semester 7		Hrs .	Semester 8		Hrs .
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ENG 404	Romantics	3	ENG 401	Shakespeare	3
ENG 409	The Novel	3	ENG 410	Drama	3
ENG 419	Literary Criticism	3	PED 124	Walking	1
	Elective/Minor Requirement	3		Elective/Minor Requirement	3
	Elective/Minor Requirement	3		Elective/Minor Requirement	3
				Elective/Minor Requirement	3
<b>TOTAL:</b>		<b>15</b>	<b>TOTAL:</b>		<b>16</b>

#### Symbol Guide

*Writing Intensive Gen Ed. Hours:	#Field Experience Education Hours:	+Online Course Total Hours:	\$Hybrid Course	&8-week Course
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### BA in English Creative Writing Pathway Academic Map (Fall Admission)

Semester 1		Hrs	Semester 2		Hrs
GE 101	University Seminar	1	ENV 103/104 L	Introduction to Environmental Science/Lab	4
LS 101	Information Literacy	1	ENG 271	Creative Writing	3
PED 111	Pers. & Comm. Health	2	ENG 102	Comp/Rhet II	3
ENG 101	Comp/Rhet I	3	SPA 205	Spanish II	5
SPA 105	Spanish I	5			
MAT 115	Contemporary Math	3			
<b>TOTAL:</b>		<b>15</b>	<b>TOTAL:</b>		<b>15</b>

Semester 3		Hrs	Semester 4		Hrs
ENG 200	Intro to Literature	3	ENG 308	American Lit II	3
HIS 101	World Civ I	3	ENG 375	Fiction Writing Workshop	3
ENG 310	English Lit I	3	PHY 103	Earth Science	3
HIS 205	United States History I	3	SPT 206	Fundamentals of Speech	3
PSY 101	General Psychology	3	SPA 230+	Any qualifying SPA class 230 or higher.	3

<b>TOTAL:</b>		<b>15</b>	<b>TOTAL:</b>		<b>15</b>
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Semester 5		Hrs	Semester 6		Hrs
		.			.
ENG 316	Writing/Research	3	ENG 475	Advanced Fiction Workshop	3
ENG 325	Grammar	3	ENG 216	African American Literature	3
S/A 201	Introduction to Sociology	3	SPT 209	Introduction to the Theatre	3
ART 330	History and Appreciation of Art	3	HIS 102	World Civ II	3
ENG 376	Poetry Writing Workshop	3		Elective/Minor Requirement	3
<b>TOTAL:</b>		<b>15</b>	<b>TOTAL:</b>		<b>15</b>

Semester 7		Hrs	Semester 8		Hrs
		.			.
HIS 203	African American History	3	ENG 401	Shakespeare	3
ENG 409	The Novel	3	ENG 474	Arts & Letters	3
ENG 476	Advanced Poetry Workshop	3	PED 124	Walking	1
	Elective/Minor Requirement	3		Elective/Minor Requirement	3
	Elective/Minor Requirement	3		Elective/Minor Requirement	3
				Elective/Minor Requirement	3
<b>TOTAL:</b>		<b>15</b>	<b>TOTAL:</b>		<b>16</b>

Symbol Guide

*Writing Intensive Gen Ed. Hours:	#Field Experience Education Hours:	+Online Course Total Hours:	\$Hybrid Course	&8-week Course
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## Leading to a Bachelor of Science in English Education

### Freshman Year

Semester 1		Hrs .	Semester 2		Hrs .
GE 101	University Seminar	1	ENG 102	English II	3
ENG 101	English I	3	HIST 101/102	International History	3
	Humanities Requirement	3	PSC 203	Am National Government	3
Math 118, 119, 120	ACT Score determines math placement	3	PHY 103	Earth/Envir Science Option	3
PSY 101	General Psychology	3	ART 100	Intro to Art	3
HIS 101	World Civ I	3			
<b>TOTAL:</b>		<b>16</b>	<b>TOTAL:</b>		<b>15</b>

### Sophomore Year

Semester 3		Hrs .	Semester 4		Hrs .
SPT 206	Speech	3	HIST 205/206	American History	3
ENG 310	English Literature I	3	ENG 320	Masterpieces of World Lit	3
			EDU 202	Observation	1
BIO 103/104 L	Biology Biology Lab	3 1	EDU 251	Professional Educatory Legal and Ethical Issues	3
ENG 200	Intro to Lit	3	ENG 308	American Lit II	3
ENG 307	American Literature I	3	ENG 311	English Literature II	3
<b>TOTAL:</b>		<b>16</b>	<b>TOTAL:</b>		<b>16</b>

### Junior Year

Semester 5		Hrs .	Semester 6		Hrs .
SE 221	Exceptional Child	3	ENG 401	Shakespeare	3
EDU 317	Differentiated Instr	3	ENG 416	African American Literature	3
ENG 316	Writing and Research	3	EDU 420	Reading in the Content Field	3
EDU 322	Adolescent Development	3	EDU 325	Assessment and Data Driven	3
EDU 316	Techniques in Teaching	3	PED 111	Health	2
ENG 325	Grammar	3	ENG 405/409	Victorian Literature	3
<b>TOTAL:</b>	<b>MEP should be taken</b>	<b>18</b>	<b>TOTAL:</b>		<b>17</b>

Senior Year

Semester 7		Hrs	Semester 8		Hrs
		.			.
PED ____	Activity	1	EDU 4__	Student Teaching	12
EDU 304	Practicum 7-12	1	EDU 475	Seminar	2
ENG 404/411	Romantic Movement	3	ENG 490	Prob/Practices Teaching English	3
ENG 409	The Novel	3			
ENG 419	Literary Criticism	3			
PSC 350	U.S. Ethnic/Racial Politics				
<b>TOTAL:</b>		<b>14</b>	<b>TOTAL:</b>		<b>17</b>

# FOREIGN LANGUAGES

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## Department of English, Foreign Languages, and Journalism

Assistant Professor: Williams

### Mission

The mission of the Foreign Languages program at Lincoln University is to provide students with working knowledge of the target language enabling them to function bilingually in their daily lives and to enrich their cultural awareness and understanding in topics relevant to the regions of the world where their studied language is spoken.

### Degree Offered

Minor in Spanish

### Objectives

Students who successfully complete the degree program in Spanish or the minors in French or Spanish should demonstrate the following:

1. The ability to confidently express themselves in Spanish
2. The capacity to comprehend authentic written and spoken Spanish
3. An understanding of Spanish cultural aspects such as history, literature, music and art, and their impact on American culture and society

### Assessment Program

Assessment measures allow students and faculty to determine whether the students have met the objectives of the program. The Spanish faculty has devised an assessment program that measures proficiency in the five core skills of language acquisition: speaking, listening, writing, reading and culture. Assessment measures are spread throughout the degree program so that students may receive periodic reports of their progress. All students completing the minor in Spanish must complete an in house oral assessment consistent with ACTFL standards.

### Requirements

**Minor:** Spanish

22 credit hours in Spanish (with 12 hours of SPA courses numbered 300 and above) with a minimum grade of "C."

Students may complete the minor requirements on campus or abroad. For students completing the minor on campus, the following courses are required: SPA 105, 205, 230, 303, 304, 321 or 322. For students completing the minor abroad, the following courses are required: SPA 105, 205, 230, 305, 323 and an upper division elective in the target language.

### Study Abroad

Students pursuing a minor in Spanish or studying another foreign language at Lincoln University are strongly encouraged to complete part of their language and culture studies through international study abroad.

## Advanced Placement and Credit in Foreign Language

Students who have completed one or more years of foreign language study in high school may be eligible for advanced placement into FRE or SPA 205 or 303 and to receive academic credit for the prerequisite course or courses. Students must apply to the Department of English, Foreign Languages and Journalism prior to registration for advanced placement. Local placement tests will be administered by the foreign language faculty. Students who place into FRE or SPA 205 or 303 may receive full credit for the prerequisite course or courses provided that they pass the course in which they enroll with a grade of “C” or better and pay the appropriate fee for credit by examination. For details and application deadlines, contact the head of the Department of English, Foreign Languages, and Journalism.

## 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.

### Spanish

All courses are conducted in Spanish, unless otherwise noted.

- SPA 105** **SPANISH I.** (5). 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 205** **SPANISH II.** (5). 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 120** **ELEMENTARY SPANISH FOR TRAVELERS.** (3). 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 230** **INTRODUCTION TO SPANISH COMPOSITION.** (3). 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). 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). 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

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## Department of English, Foreign Languages, and Journalism

Assistant Professor: Sites

### **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, 150, 200, 203, 250, 325, 326,, 373, 407, 418, 425, 426, 498 and 499..

**Broadcast Track** requires, with a minimum grade of "C" or better, completion of JOU 125, 135, 150, 200, 203, 300, 335, 336, 341, 373, 407, 435, 436, 498, and 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" in 18 hours of Journalism including JOU 125, 135, 150, 200, 203, and 418, as arranged in conference with the area.

### 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). 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 150 NEWSWRITING.** (3). Introduction to writing for journalism, both print and online. The emphasis is on reporting the news and writing it in a professional manner. Introduces ethical and legal issues facing journalism.
- JOU 200 INTRODUCTION TO MASS COMMUNICATION.** (3). 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). 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 250 MEDIA ETHICS**
- JOU 299 INTRODUCTION TO RADIO AND TELEVISION.** (3). An overview of the broadcasting industry, including a survey of FCC rules and regulations. Prerequisites: ENG 101-102, SPT 206, JOU 200.
- 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 315 THE EDITORIAL PAGE.** (3). A study of the writing and display of interpretive content.
- JOU 325/326 Reporter I-II.** (3). Production of a laboratory newspaper; on-line format.
- 326** 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). 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). 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, and 335 with a "C" or better.
- JOU 341 BROADCAST NEWS WRITING AND EDITING.** (3). Preparation of newscasts emphasizing live or original broadcasts and preparation for television. Word processing skills required.
- JOU 350 THE FILM AND BROADCASTING DOCUMENTARY.** (3). The documentary film in broadcasting is examined and compared with other forms of film. Exemplary films viewed and analyzed.
- JOU 370 PUBLIC RELATIONS.** (3). Techniques of communications between institutions and their publics. Field surveys and promotion problems.
- JOU 373 INVESTIGATIVE JOURNALISM.** (3). 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). 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). 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). 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). Service as editor of student publication. Prerequisites: JOU 325, 326, and 426, each with a grade of "C" or better, 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 435 NEWS PRODUCER I.** (3). 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). 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 498 MEDIA INTERNSHIP.** (3). 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). 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.

**BS in Journalism**  
**Emphasis in News/Editing**  
**Academic Map (Fall Admission)**

Semester 1		Hrs .	Semester 2		Hrs .
GE 101	University Seminar	1	ENV 103/104 L	Introduction to Environmental Science/Lab	4
LS 101	Information Literacy	1	PED 111	Pers. & Comm. Health	2
ENG 101	Comp/Rhet I	3	HIS 101	World Civ I	3
JOU 150	Newswriting	3	ENG 102	Comp/Rhet II	3
JOU 125	Visual Comm	3	JOU 135	Broadcast News	3
MAT 115	Contemporary Math	3			
<b>TOTAL:</b>		<b>14</b>	<b>TOTAL:</b>		<b>15</b>

Semester 3		Hrs .	Semester 4		Hrs .
JOU 200	Mass Comm	3	JOU 203	History/JOUR	3
JOU 250	Ethics	3		Elective/Minor Requirement	3
S/A 201	Introduction to Sociology	3	PHY 103	Earth Science	3
HIS 205	United States History I	3	SPT 206	Fundamentals of Speech	3
PSY 101	General Psychology	3	ART 100	Intro/Art	3
<b>TOTAL:</b>		<b>15</b>	<b>TOTAL:</b>		<b>15</b>

Semester 5		Hrs .	Semester 6		Hrs .
JOU 325	News Reporting I	3	JOU 326	News Reporting II	3
JOU 373	Information Gathering	3		Elective/Minor Requirement	3
	Elective/Minor Requirement.	3		Minor Requirement	3
MUS 200	World/Music	3	HIS 102	World Civ II	3
	Minor Requirement	3	JOU 498	Internship	3
<b>TOTAL:</b>		<b>15</b>	<b>TOTAL:</b>		<b>15</b>

Semester 7		Hrs .	Semester 8		Hrs .
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PSC 350	U.S. Ethnic/Rac Pol	3	JOU 426	News Editor II	3
JOU 407	Public Affairs	3	JOU 499	Capstone	3
JOU 418	Law	3	PED 124	Walking	1
JOU 425	News Ed I	3		Elective/Minor Requirement	3
	Elective/Minor Requirement	3		Elective/Minor Requirement	3
	Elective/Minor Requirement	3		Elective/Minor Requirement	3
<b>TOTAL:</b>		<b>18</b>	<b>TOTAL:</b>		<b>16</b>

### Symbol Guide

*Writing Intensive Gen Ed. Hours:	#Field Experience Education Hours:	†Online Course Total Hours:	§Hybrid Course	&8-week Course
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### BS in Journalism Emphasis in Broadcast Academic Map (Fall Admission)

Semester 1		Hrs	Semester 2		Hrs
GE 101	University Seminar	1	ENV 103/104 L	Introduction to Environmental Science/Lab	4
LS 101	Information Literacy	1	PED 111	Pers. & Comm. Health	2
ENG 101	Comp/Rhet I	3	HIS 101	World Civ I	3
JOU 150	Newswriting	3	ENG 102	Comp/Rhet II	3
JOU 125	Visual Comm	3	JOU 135	Broadcast News	3
MAT 115	Contemporary Math	3			
<b>TOTAL:</b>		<b>14</b>	<b>TOTAL:</b>		<b>15</b>

Semester 3		Hrs	Semester 4		Hrs
JOU 200	Mass Comm	3	JOU 203	History/JOUR	3
JOU 250	Ethics	3		Elective/Minor Requirement	3
S/A 201	Introduction to Sociology	3	PHY 103	Earth Science	3
HIS 205	United States History I	3	SPT 206	Fundamentals of Speech	3
PSY 101	General Psychology	3	ART 100	Intro/Art	3

<b>TOTAL:</b>		<b>15</b>	<b>TOTAL:</b>		<b>15</b>

Semester 5		Hrs	Semester 6		Hrs
JOU 335	DIG Newsroom I	3	JOU 336	DIG Newsroom II	3
JOU 373	Information Gathering	3	JOU 345	Online Media	3
JOU 300	Broadcast Reg/Responsibilities	3		Minor Requirement	3
MUS 200	World/Music	3	HIS 102	World Civ II	3
	Minor Requirement	3	JOU 341	Broad News/Editing	3
<b>TOTAL:</b>		<b>15</b>	<b>TOTAL:</b>		<b>15</b>

Semester 7		Hrs	Semester 8		Hrs
PSC 350	U.S. Ethnic/Rac Pol	3	JOU 436	News Prod II	3
JOU 498	Internship	3	JOU 499	Capstone	3
JOU 418	Law	3	PED 124	Walking	1
JOU 407	Report/Pup. Affairs	3		Elective/Minor Requirement	3
	Elective/Minor Requirement	3		Elective/Minor Requirement	3
	Elective/Minor Requirement	3		Elective/Minor Requirement	3
<b>TOTAL:</b>		<b>18</b>	<b>TOTAL:</b>		<b>16</b>

#### Symbol Guide

*Writing Intensive Gen Ed. Hours:	#Field Experience Education Hours:	+Online Course Total Hours:	§Hybrid Course	&8-week Course
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# HISTORY AND GEOGRAPHY

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## Department of History, Political Science and Philosophy

Professors: Bardot, Crossnoe, Greene, Jungmeyer

Associate Professors: Gubbels

Assistant Professors: Leslie, Scovill

### 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.

### Degrees Offered

Bachelor of Arts with a major in History

Bachelor of Science with a major in History

### Objectives

Students successfully completing the degree program 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 the historical method and develop a familiarity with a variety of interpretative 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, including B.S.Ed majors, 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 European/World History

A minimum grade of "C" in HIS 101, 102, 205, 206, 385, 499 and PSC 203 and 204 plus 6 hours of Geography and the upper division coursework designated in the academic map. The minor program in Public History, Political Science or Philosophy is recommended.

### **Major:** B.A. in United States History

A minimum grade of "C" in HIS 101, 102, 205, 206, 385, PSC 203 and 204, 6 hours of Geography and the upper division coursework designated in the academic map. The minor program in Public History, Political Science or Philosophy is recommended.

### **Major:** B.S. in European/World History

A minimum grade of "C" in HIS 101, 102, 205, 206, 385, 499, 6 hours of Geography and the upper division coursework designated in the academic map. The Bachelor of Science degree in History requires a minor with a minimum of 18 hours. The minor program in Public History, Political Science or Philosophy is recommended.

### **Major:** B.S. in United States History

A minimum grade of "C" in HIS 101, 102, 205, 206, 385, 499, PSC 203 and 204, 6 hours of Geography and the upper division coursework designated in the academic map. The Bachelor of Science degree in History requires a minor with a minimum of 18 hours. The minor program in Public History, Political Science or Philosophy is recommended.

### **Minor:** History

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

### **Minor:** Public History

21-24 hours with core requirements of 15 hours. These requirements may be satisfied by completing 15 hours from the following: HIS, 385, 402, 476, 495, 498, and 499. Nine hours of electives may be taken from the following courses: HIS 403, 477, PSC/PAD 310,, MKT 309, JOU 370.

**Note:** Information about the African American Studies minor is on p. 189. Information about the Interdisciplinary International Studies minor is on p. 192.

## **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.

**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.

## **Group I: General Education**

**HIS 101**     **WORLD CIVILIZATION I.** (3). Survey of major Western and non-Western civilizations from earliest times to 1650.

- HIS 102 WORLD CIVILIZATION II.** (3). Survey of major Western and non-Western civilizations from 1650 to the present.
- HIS 151H HONORS WORLD CIVILIZATION I.** (3). 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). A survey of major world civilizations emphasizing political, intellectual and social changes since 1650. Discussion, reading, and writing component emphasized in this course.
- 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). 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). 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). 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 MISSOURI HISTORY.** (3). Survey of the history of Missouri from early Indian culture to the present. This course is designated writing intensive.
- 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). 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 20<sup>th</sup> and 21<sup>st</sup> 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 21<sup>st</sup> 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 IN AMERICAN SOCIETY.** (3). Relationship of American military policy to the political, economic, and social development of the nation.
- HIS 421 COLONIAL AMERICA.** (3). 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). Political, economic, and social development of the Southern United States through the Civil War.
- HIS 424 20<sup>th</sup> CENTURY UNITED STATES.** (3). 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). Political, social, and cultural developments of China and Japan from 1600 to late 20<sup>th</sup> century.
- HIS 432 ISLAM AND THE CHRISTIAN WORLD.** (3). 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 HISTORY OF THE MIDDLE EAST.** (3). Political, social and cultural developments of the Middle East from its origins through the mid-20<sup>th</sup> century.
- HIS 440 ANCIENT GREECE AND ROME.** (3). Survey of Greek and Roman history, c. 1500 BC - c. 500 AD; students can gain an understanding of the political, social, and cultural achievements of ancient Greek and Roman societies.
- HIS 441 MEDIEVAL EUROPE.** (3). 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 REFORMATION EUROPE.** (3). Covering the period 1500-1648, this course examines changing political, economic, social, religious and intellectual life in Europe from the eve of the Reformation to the end of the Thirty Years War in 1648.
- HIS 443 EARLY MODERN EUROPE.** (3). Evolution from medieval society and the effect of changes on the shaping of modern Europe.
- HIS 444 NINETEENTH 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 20<sup>TH</sup> CENTURY EUROPE.** (3). Political, economic, and social developments in Europe from World War I 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 HISTORY OF MODERN RUSSIA.** (3). Imperial and Soviet Russia and her place in world affairs since the 18th century.
- HIS 460 MODERN GERMANY.** (3). 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  
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.

## Course Requirements

Leading to a Bachelor of Arts/Bachelor of Science degree  
with a major in European/World History

### BA European/World History Pathway

Semester 1		Semester 2	
GE 101-University Seminar	1	ENG 102/152H-Composition & Rhetoric II	3
ENG 101/151H-Composition & Rhetoric I	3	HIS 102/152H-World Civilization II	3
HIS 101/151H-World Civilization I	3	PSC 204-American State & Local Government	3
PSC 203-American National Government	3	MAT 112, 115 or 117	3
Foreign Language	5	Foreign Language	5
PED Activity	1		
<b>Total Hours</b>	16	<b>Total Hours</b>	17
Semester 3		Semester 4	
HIS 205-United States History I	3	HIS 206-United States History II	3
GEO 200-World Geography	3	HIS 385-Historical Methods	3
SPT 206-Fundamentals of Speech	3	GEO 301 or 302	3
HIS 203, 402, 403 or 477	3	ENG 200, 301H, 307, 308 or 320	3
PED 111-Personal & Community Hygiene	2	PHI 101-Principles of Reasoning	3
Foreign Language	3	S/A 201 Introduction to Sociology	3
<b>Total Hours</b>	17	<b>Total Hours</b>	18
Semester 5		Semester 6	
HIS 441-Medieval Europe	3	HIS 443-Early Modern Europe	3
HIS 433-History of Middle East	3	HIS 456-History of Britain	3
HIS 460 Modern Germany	3	HIS 458-Modern Russia	3
PSY 101/151H-General Psychology	3	HIS 424-20 <sup>th</sup> century U.S.	3
PHY 103/104L or ENV 103/104L	4	PHY 103 or ENV 103	3
<b>Total Hours</b>	16	<b>Total Hours</b>	15
Semester 7		Semester 8	
HIS 431-History of China and Japan	3	HIS 444 19 <sup>th</sup> c Europe or HIS 445 20 <sup>th</sup> c Europe	3
HIS 442-Reformation Europe	3	HIS 432 Islamic and Christian World or HIS 440 Ancient Greece and Rome	3
HIS 457- History of Modern France	3	Upper Division Elective	3
HIS 405 or 421 Economic History of U.S. or Colonial America	3	Upper Division Elective	3
Upper Division Elective	3	Upper Division Elective	3
Upper Division Elective	3	Upper Division Elective	3
<b>Total Hours</b>	18	<b>Total Hours</b>	18

- Upper Division electives can be used to complete a Minor area of study. Although additional courses in the areas of History, Political Science and Philosophy are encouraged, students may choose any courses offered at the

university or completed at an accredited school with prior approval – see transfer credit.

- Bachelor of Arts majors must complete 12 hours of foreign language and have the option of taking HIS 499.
- Students desiring to pursue advanced degrees should take SS 451, Data Collection Methods and SS 452, Data Analysis Methods.

#### BS European/World History Pathway

<b>Semester 1</b>		<b>Semester 2</b>	
GE 101-University Seminar	1	ENG 102/152H-Composition & Rhetoric II	3
ENG 101/151H-Composition & Rhetoric I	3	HIS 102/152H-World Civilization II	3
HIS 101/151H-World Civilization I	3	PSC 204-American State & Local Government	3
PSC 203-American National Government	3	PHY 103 or ENV 103	3
PSY 101/151H-General Psychology	3	PED 111-Personal & Community Health	2
MAT 112, 115, or 117	3	PED Activity	1
<b>Total Hours</b>	16	<b>Total Hours</b>	17
<b>Semester 3</b>		<b>Semester 4</b>	
HIS 205-United States History I	3	HIS 206-United States History II	3
GEO 200-World Geography	3	HIS 385-Historical Methods	3
SPT 206-Fundamentals of Speech	3	GEO 301 or 302	3
HIS 203, 402, 403, 404, or 477	3	ENG 200, 301H, 307, 308 or 320	3
PHY 103/104L or ENV 103/104L	4	S/A 201- Intro to Sociology	3
<b>Total Hours</b>	16	<b>Total Hours</b>	15
<b>Semester 5</b>		<b>Semester 6</b>	
HIS 441-Medieval Europe	3	HIS 443- Early Modern Europe	3
HIS 433-History of Middle East	3	HIS 456- History of Britain	3
HIS 460 Modern Germany	3	HIS 458-Modern Russia	3
HIS 410 War in American Society or HIS 422 U.S. National Period	3	HIS 424-20 <sup>th</sup> century U.S.	3
PHI 101- Principles of Reasoning	3	HIS 499-Government Internship	3
Upper Division Elective	3	Upper Division Elective	3
<b>Total Hours</b>	18	<b>Total Hours</b>	18
<b>Semester 7</b>		<b>Semester 8</b>	
HIS 431-History of China and Japan	3	HIS 444 19 <sup>th</sup> c Europe or HIS 445 20 <sup>th</sup> c Europe	3
HIS 442 Reformation Europe	3	HIS 432 Islamic and Christian World or HIS 440 Ancient Greece and Rome	3
HIS 457- History of Modern France	3	Upper Division Elective	3
Upper Division Elective	3	Upper Division Elective	3
Upper Division Elective	3	Upper Division Elective	3
<b>Total Hours</b>	15	<b>Total Hours</b>	15

- Upper Division electives can be used to complete a Minor area of study. Although additional courses in the areas of History, Political Science and Philosophy are encouraged, students may choose any courses offered at the university or completed at an accredited school.
- Bachelor of Arts majors must complete 12 hours of foreign language and have the option of taking HIS 499.
- Bachelor of Science majors must complete 3 credit hours of HIS 499.
- Students desiring to pursue advanced degrees should take SS 451, Data Collection Methods and SS 452, Data Analysis Methods.

Additional Information: A minimum grade of “C” is required for all courses in the major.

### Course Requirements

Leading to a Bachelor of Arts/Bachelor of Science degree  
with a major in United States History

#### BA United States History Pathway

Semester 1		Semester 2	
GE 101-University Seminar	1	ENG 102/152H-Composition & Rhetoric II	3
ENG 101/151H-Composition & Rhetoric I	3	HIS 102/152H-World Civilization II	3
HIS 101/151H-World Civilization I	3	PSC 204- State and Local Government	3
PSC 203-American National Government	3	MAT 112, 115 or 117	3
Foreign Language	5	Foreign Language	5
PED Activity	1		
<b>Total Hours</b>	16	<b>Total Hours</b>	17
Semester 3		Semester 4	
HIS 205-United States History I	3	HIS 206-United States History II	3
GEO 200-World Geography	3	HIS 385-Historical Methods	3
SPT 206-Fundamentals of Speech	3	GEO 301 or 302	3
HIS 203-African American History	3	ENG 200, 301H, 307, 308 or 320	3
PED 111-Personal & Community Health	2	S/A 201 -Introduction to Sociology	3
Foreign Language	3	PSY 101/151H-General Psychology	3
<b>Total Hours</b>	17	<b>Total Hours</b>	18
Semester 5		Semester 6	
HIS 410 War in American Society or HIS 477 Women in America	3	HIS 403 Blacks in America or HIS 404 History of the South	3
HIS 422-U.S. National Period	3	HIS 424-20 <sup>th</sup> century U.S.	3
HIS 433 History of the Middle East, HIS 441 Medieval Europe, or HIS 460 Modern Germany	3	HIS 443 Early Modern Europe, HIS 456 History of Britain, or HIS 458 History of Modern Russia	3
PHI 101 Principles of Reasoning	3	PHY 103 or ENV 103	3
PHY 103/104L or ENV 103/104L	4	Upper Division Elective	3
<b>Total Hours</b>	16	<b>Total Hours</b>	15



Semester 7		Semester 8	
HIS 421-Colonial America	3	HIS 423-Civil War and Reconstruction	3
HIS 405-Economic History of U.S.	3	HIS 401 Missouri or HIS 402 Ethnic History	3
HIS 431 History of China and Japan, HIS 442 Reformation Europe, HIS 457 History of Modern France, or HIS 459 History of Africa	3	Upper Division Elective	3
Upper Division Elective	3	Upper Division Elective	3
Upper Division Elective	3	Upper Division Elective	3
Upper Division Elective	3	Upper Division Elective	3
<b>Total Hours</b>	18	<b>Total Hours</b>	18

- Upper Division electives can be used to complete a Minor area of study. Although additional courses in the areas of History, Political Science and Philosophy are encouraged, students may choose any courses offered at the university or completed at an accredited school.
- Bachelor of Arts majors must complete 12 hours of foreign language and have the option of taking HIS 499.
- Bachelor of Science majors must complete 3 credit hours of HIS 499.
- Students desiring to pursue advanced degrees should take SS 451, Data Collection Methods and SS 452, Data Analysis Methods.

#### BS United States History Pathway

Semester 1		Semester 2
GE 101-University Seminar	1	ENG 102/152H-Composition & Rhetoric
ENG 101/151H-Composition & Rhetoric I	3	HIS 102/152H-World Civilization II
HIS 101/151H-World Civilization I	3	PHI 101- Principles of Reasoning
PSC 203-American National Government	3	PSC 204-American State & Local Government
PSY 101/151H-General Psychology	3	BIO 103, PHY 103 or PHY 105
MAT 112, 115 or 117	3	PED 111-Personal & Community Health
PED Activity	1	
<b>Total Hours</b>	17	<b>Total Hours</b>
Semester 3		Semester 4
HIS 205-United States History I	3	HIS 206-United States History II
GEO 200-World Geography	3	HIS 385-Historical Methods
SPT 206-Fundamentals of Speech	3	GEO-301 or 302
HIS 203-African American History	3	ENG 200, 301H, 307, 308 or 320
BIO 103/104L, PHY 103/104L or PHY 105/106L	4	S/A 201-Introduction to Sociology
<b>Total Hours</b>	16	<b>Total Hours</b>
Semester 5		Semester 6
HIS 410 War in American Society or HIS 477 Women in America	3	HIS 403 Blacks in America or HIS 404 History of the South
HIS 422-U.S. National Period	3	HIS 424-20 <sup>th</sup> century U.S.
HIS 433 History of the Middle East, HIS 441 Medieval Europe, or HIS 460 Modern Germany	3	HIS 443 Early Modern Europe, HIS 456 Britain, or HIS 458 History of Modern Russia

Upper Division Elective	3	HIS 499-Government Internship
Upper Division Elective	3	Upper Division Elective
<b>Total Hours</b>	15	<b>Total Hours</b>
<b>Semester 7</b>		<b>Semester 8</b>
HIS 421-Colonial America	3	HIS 423-Civil War and Reconstruction
HIS 405-Economic History of U.S.	3	HIS 401 Missouri or HIS 402 Ethnic History
HIS 431 History of China and Japan, HIS 442 Reformation Europe, HIS 457 History of Modern France, or HIS 459 History of Africa	3	Upper Division Elective
Upper Division Elective	3	Upper Division Elective
Upper Division Elective	3	Upper Division Elective
<b>Total Hours</b>	15	<b>Total Hours</b>

- Upper Division electives can be used to complete a Minor area of study. Although additional courses in the areas of History, Political Science and Philosophy are encouraged, students may choose any courses offered at the university or completed at an accredited school.
- Bachelor of Arts majors must complete 12 hours of foreign language and have the option of taking HIS 499.
- Bachelor of Science majors must complete 3 credit hours of HIS 499.
- Students desiring to pursue advanced degrees should take SS 451, Data Collection Methods and SS 452, Data Analysis Methods.

Additional Information: A minimum grade of “C” is required for all courses in the major.

# SOCIAL SCIENCE EDUCATION

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## Department of History, Political Science and Philosophy

Professors: Bardot, Crossnoe, Gossett, Greene, Jungmeyer, Sewell

Associate Professors: Gubbels

Assistant Professors: Leslie, Scovill, Ilo

### 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.

### Degree Offered

Bachelor of Science in Education with a major in Social Science.

### Objectives

Students successfully completing the degree program in Social Science will be able to demonstrate the following:

1. a knowledge in the disciplines constituting the social sciences
2. be acquainted with historic development from the ancient times to the present
3. be able to use the 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

Students will compile a Social Science Education portfolio, will earn a “C” or better in student teaching, will perform satisfactorily on the required licensing exam, and take the PCAT major field test in History.

### Computer Skills Requirement

Social Science Education majors will adhere to the Department of Education computer skills requirement.

### Required Courses

**Major:** B.S. in Social Science Education

A minimum grade of "C" in 58 hours of Social Science including HIS 101, 102, 205, and 206; PSC 203 and 204; S/A 201; 3 hours from ECO 201 or 202; 12 hours in upper division U.S. History; 6 hours in upper division European/World History; 6 hours of Geography; HIS 385.

Students planning to teach Social Science in secondary schools should also confer with the head of the Department of Education during their freshman year with regard to professional requirements. Middle School Certification recommended.

**Minor: Social Science Education**

A minimum grade of "C" in 24 hours including HIS 101, 102, 205 and 206; 3 hours each in Political Science, upper division U.S. History, upper division European/World History, and Geography.

**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.

- SS 110 INTRODUCTION TO SOCIAL SCIENCE I.** (2). Introduction to the various social sciences, their research methods, and their relationships. No prerequisite.
- SS 111 INTRODUCTION TO SOCIAL SCIENCE II.** (2). Selected social issues and problems from the perspective of various social sciences. No prerequisite.
- SS 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.
- SS 390/ 391 DIRECTED TUTORING.** (3). Supervised tutoring/assistant. May enroll in a total of three directed tutoring courses during career, but no more than two in any one area: social science, history. Prerequisite: permission of the department.
- SS 451 DATA COLLECTION METHODS.** (3). Research design, methodology, and techniques of data collection. Prerequisite: 9 hours of Social Science. See Sociology listing on p. 240.
- SS 452 DATA ANALYSIS METHODS.** (3). Quantification, measurement, computerization, presentation, and analysis of data. Prerequisite: 9 hours of Social Science; MAT 117. See Sociology listing on p. 240.

**Course Requirements**

Leading to a Bachelor of Science in Education  
with a major in Social Science

Successful completion of the Lincoln University General Education courses and the courses listed below will entitle a person to receive the degree B.S.Ed. with a major in Social Science and will lead to a certificate to teach Social Science in the State of Missouri in grades 9-12. The following courses meet requirements of Lincoln University and Missouri Department of Elementary and Secondary Education (DESE).

**B.S.ED. in Social Studies Education  
Academic Map (Fall Admission)**

6/14/2015

Semester 1		Hr s.	Semester 2		Hrs .
GE101	University Seminar	1	Eng 102	English II	3
ENG 101	English I	3	HIS 102	International History	3
PHY 101	Principles of Reasoning	3	PSC 203	Am National Govt	3

MAT 119/120	ACT score determines math placement	3	PHY 103	Earth/Envir Science Option	3
His 101 or 151H	World Civilization I	3	HIS 206	United States History II	3
His 205	United States History I	3	PSY 101	General Psychology	3
- TOTAL :		16	TOTAL :		18
<b>Semester 3</b>		Hrs .	<b>Semester 4</b>		Hrs .
SPT 206	Speech	3	EDU 260	Education and Cultural Diversity	3
His 203 or 403	African American History or Blacks in America	3	EDU 202	Observation in Education	1
SA 201	Introduction to Sociology	3	EDU 251	Professional Educator	3
BIO 103 BIO 104L	Biology Biology Lab	3 1	EDU 204	ED Psych	3
GEO 200	Geography	3	GEO	Geography	3
			HIS 385	Historical Methods	3
			HIS 424	20 <sup>th</sup> Century US History	3
- TOTAL :		16	TOTAL :		19
<b>Semester 5</b>		Hrs .	<b>Semester 6</b>		Hrs .
SE 221	Exceptional Child	3	EDU 417	Methods in Content Field	2
EDU 317	Differentiated Inst	3	EDU 420	Reading in the Content Field	2
ENG 3	A Literature course numbered below 400	3	EDU 325	Assessment and Data driven	3
EDU 322	Adolescent Development	3	PED 111	Health	2
EDU 316	Techniques in Teaching	3	HIS	Upper division U.S. History Elective	3

				Upper division Europe/World History Elective	3
- TOTAL :		15	TOTAL :		15
<b>Semester 7</b>		Hrs	<b>Semester 8</b>		Hrs
HIS 445	20 <sup>th</sup> Century Europe	3	EDU 471	Student Teaching	10
PED	Activity	1	EDU 475	Seminar	2
EDU 304	Practicum 7-12	1			
EDU 435	Classroom Management	3			
HIS	Upper division U.S. History Elective	3			
ECO 201 or ECO 202	Principals of Economics I or Principles of Economics II	3			
- TOTAL :		<b>14</b>	TOTAL :		<b>13</b>

Symbol Guide

*Writing Intensive	#Field Experience	+Online Course	\$Hybrid Course	&8-week Course
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# INTERDISCIPLINARY STUDIES

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## AFRICAN AMERICAN STUDIES (Minor)

Departments of English, Foreign Languages and Journalism  
History, Political Science and Philosophy  
Social and Behavioral Sciences  
Visual and Performing Arts

### 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 20<sup>th</sup> 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 (Minor)

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## Departments of Business History, Political Science and Philosophy Social and Behavioral Sciences

### 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 (MINOR)

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Departments of History, Political Science and Philosophy  
English, Foreign Languages and Journalism  
DEPARTMENTS OF  
HISTORY, POLITICAL SCIENCE AND PHILOSOPHY  
ENGLISH, FOREIGN LANGUAGES AND JOURNALISM

## 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 20<sup>th</sup> Century Europe (required)  
HIS 457 History of Modern France  
HIS 458 History of Modern Russia  
HIS 460 Modern Germany  
HIS 456 Modern 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 and Japan  
HIS 432 Islam and the Christian World  
HIS 433 History of the Middle East

Note: Upper division- special topics- special subjects courses may be used depending upon appropriate course content for the selected area of study.

III. Global Business / Cultural Studies: Students will complete a course (three credit hours) in one of the following areas.

a. International Business and Global Resources:

BAD 215	Introduction to Global business
ECO 310	Economic Development
ECO 420	International Economics
MKT 415	International Marketing
ENV 312	Environmental Geology
GIS 208	Introduction to Geospatial Science
GIS 301	Introduction to Global Positioning System

b. Cultural Studies

ANT 311	World Ethnography
ANT 411	Culture Areas of the World
S/A 202	Introduction to Social-Cultural Anthropology
SOC 415	History of Sociological Theory
GEO 301	Economic Geography
ART 330	History and Appreciation of Art
ENG 320	Masterpieces of Literature in English Translation

IV. Foreign Language Requirement: Students will complete at least ten (10) credit hours in a foreign language native to their selected area of the world.

V. International Experience: Students declaring a minor in International Studies are encouraged to complete part of their requirements through international study abroad or through an internship with a multinational organization. Credit may also be granted for other international experiences such as military deployment, religious/missionary/ volunteer work abroad or employment abroad. The length of these alternative international experiences must be at least four weeks and the student must be able to document cultural competence gained through the experience.

## HONORS PROGRAM

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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:

hr.	GE	101H	Honors University Seminar	1
hrs.	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	
hrs.	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
	481H	Honors Summer Mentorship (may be taken more than once)	3 hrs.
hrs.	482H	Senior Honors Thesis	3-6

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).

# POLITICAL SCIENCE

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## Department of History, Political Science and Philosophy

Professors: Gossett, Sewell

Assistant Professor: Ilo

### 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.

### Degrees Offered

Bachelor of Arts with a major in Political Science

Bachelor of Science with a major 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 access 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.

### Required Courses

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

A minimum grade of "C" is required for all courses in the major, including PSC 203 and 204, HIS 205, 206, PHI 101, S/A 201 or ECO 201, PSC 300 and PSC 499. In addition, a student must complete 12 hours from American Government/Public Policy, including 6 hours at 400 level; 9 hours from Comparative Politics/International Relations, including 6 hours

at 400 level; and 9 hours from Political Theory/Law, including 6 hours at the 400 level. MAT 117 is recommended. Cognate courses may be substituted, with approval of the department head. Electives may be applied to a minor. Recommended are electives that emphasize skills in reading/writing, statistics, and computers. The Bachelor of Science degree in Political Science requires at least an 18 hour minor.

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

Note: For a **Legal Studies** minor, see p. 190.

### 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). 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). 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). 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). 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.** (3). 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). 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). 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). 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). 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). 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). 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). The course provides an examination of major social policy developments in United States.
- PSC 380** **AFRICAN POLITICS.** (3). 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). 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). National executive and legislative institutions, roles, structures, processes, problems, and their interrelationships.
- PSC 420** **PARTY POLITICS** (3). Roles and processes of participative organizations, opinion formation, voting, and other participative behavior.
- PSC 425** **POLITICS AND RELIGION** (3). **This course examines the role religion plays in contemporary and historical politics, domestically and internationally, and considers the treatment of religion in the U.S. Constitution.**
- PSC 430** **CONSTITUTIONAL LAW.** (3). American constitutional principles, problems, and trends regarding governmental powers and civil liberties is addressed in this course.
- PSC 440** **COMPARATIVE POLITICS.** (3). 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). World politics, institutions, and concepts including power, resources, conflict resolution, and international law.

- PSC 470 POLITICS AND ENVIRONMENTAL POLICY.** (3). 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). 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.

#### **BA Political Science Pathway**

<b>Semester 1</b>		<b>Semester 2</b>	
GE 101-University Seminar	1	PSC 204-American State & Local Government	3
PSC 203-American National Government	3	ENG 102/152H-Composition & Rhetoric II	3
ENG 101/151H-Composition & Rhetoric I	3	MAT 117- Statistics	3
HIS 101/151H-World Civilization I	3	Foreign Language	5
Foreign Language	5	PED 111-Personal and Community Health	2
PED Activity	1		
<b>Total Hours</b>	16	<b>Total Hours</b>	16
<b>Semester 3</b>		<b>Semester 4</b>	
PSC 300-Introduction to Political Science	3	HIS 206-United States History II	3
HIS 205-United States History I	3	ENG 200, 301H, 307, 308, 320	3
SPT 206-Fundamentals of Speech	3	PHI 101 –Principles of Reasoning	3
PSY 101/151H-General Psychology	3	SA 201-Introduction to Sociology	3
Foreign Language	3	PHY 103/104L or ENV 103/104L	4
<b>Total Hours</b>	15	<b>Total Hours</b>	16
<b>Semester 5</b>		<b>Semester 6</b>	
PSC 360-Media/Public Opinion or	3	PSC 305 International Law & Orgs	3

PSC 425 Religion and Politics		or PSC 460 International Relations	
PSC 370-Social Welfare Policy	3	PSC 350-U.S Racial & Ethnic Politics	3
PSC 380-African Politics	3	PSC 420-Party Politics	3
BIO 103, PHY 103 or PHY 105	3	Upper Division Elective	3
Upper Division Elective	3	Upper Division Elective	3
Upper Division Elective	3		
<b>Total Hours</b>	18	<b>Total Hours</b>	15
<b>Semester 7</b>		<b>Semester 8</b>	
PSC 315 Intro to Globalization or PSC 400 American Foreign Policy	3	PSC 390 War and Conflict or PSC 440 Comparative Politics	3
PSC 340 Intro to Public Policy	3	PSC 450 Political Thought	3
PSC 410- President and Congress	3	PSC 470 Politics and Environmental Policy	3
PSC 480 Civil Rights and Civil Liberties	3	PSC 499-Government Internship	3
Upper Division Elective	3	Upper Division Elective	3
Upper Division Elective	3		
<b>Total Hours</b>	18	<b>Total Hours</b>	15

\*Course may not be counted as meeting both the diversity requirement and the major course requirement.

- Upper Division electives can be used to complete a Minor area of study. Although additional courses in the areas of Political Science, History or Philosophy are encouraged, students may choose any course offered at the university or completed at an accredited college or university.
- Bachelor of Arts majors must complete 12 hours of foreign language.

#### BS Political Science Pathway

<b>Semester 1</b>		<b>Semester 2</b>	
GE 101-University Seminar	1	PSC 204-American State & Local Government	3
PSC 203-American National Government	3	ENG 102/152H-Composition & Rhetoric II	3
ENG 101/151H-Composition & Rhetoric I	3	MAT 117- Statistics	3
HIS 101/151H-World Civilization I	3	PHI 101-Principles of Reasoning	3
PSY 101/151H-General Psychology	3	PHY 103 or ENV 103	3
PED Activity	1		
PED 111-Personal & Community Health	2		
<b>Total Hours</b>	16	<b>Total Hours</b>	15
<b>Semester 3</b>		<b>Semester 4</b>	
PSC 300-Introduction to Political Science	3	HIS 206-United States History II	3

HIS 205-United States History I	3	SA 201-Introduction to Sociology	3
GEO 200 World Geography	3	ENG 200, 301H, 307, 308, 320	3
SPT 206 Fundamentals of Speech	3	PHY 103/104L or ENV 103/104L	4
Upper Division Elective	3	Upper Division Elective	3
<b>Total Hours</b>	15	<b>Total Hours</b>	16
<b>Semester 5</b>		<b>Semester 6</b>	
PSC 360-Media/Public Opinion or PSC 425 Religion and Politics	3	PSC 305 International Law & Orgs or PSC 460 International Relations	3
PSC 370-Social Welfare Policy	3	PSC 350-U.S Racial & Ethnic Politics	3
PSC 380-African Politics	3	PSC 420-Party Politics	3
BIO 103, PHY 103 or PHY 105	3	Upper Division Elective	3
Upper Division Elective	3	Upper Division Elective	3
<b>Total Hours</b>	15	<b>Total Hours</b>	15
<b>Semester 7</b>		<b>Semester 8</b>	
PSC 315 Intro to Globalization or PSC 400 American Foreign Policy	3	PSC 390 War and Conflict or PSC 440 Comparative Politics	3
PSC 340 Intro to Public Policy	3	PSC 450 Political Thought	3
PSC 410- President and Congress	3	PSC 470 Politics and Environmental Policy	3
PSC 480 Civil Rights and Civil Liberties	3	PSC 499-Government Internship	3
Upper Division Elective	3	Upper Division Elective	3
<b>Total Hours</b>	15	<b>Total Hours</b>	15

\*Course may not be counted as meeting both the diversity requirement and the major course requirement.

- Upper Division electives can be used to complete a Minor area of study. Although additional courses in the areas of Political Science, History or Philosophy are encouraged, students may choose any course offered at the university or completed at an accredited college or university.
- Bachelor of Arts majors must complete 12 hours of foreign language.

# PHILOSOPHY (Minor)

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## Department of History, Political Science and Philosophy

Professor: Ballard

Associate Professor: Rohrer

Assistant Professor: Freelin

### 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:

1. Competence as critical thinkers, readers, writers, and speakers;
2. Familiarity with the traditional areas of philosophy (logic, ethics, epistemology and metaphysics);
3. Acquaintance with the historical development of philosophy from the ancient world to the present;
4. The use of philosophical methods and concepts within applied fields, such as political theory, health care ethics, philosophy of education, etc.;
5. 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). Analysis of argument, detection of fallacies, meaning and definition, formal deduction and induction, with emphasis on practical applications.
- PHI 102 INTRODUCTION TO PHILOSOPHY.** (3). Acquaints the student with some problems and methods of philosophic inquiry.
- PHI 201 MAJOR RELIGIONS OF THE WORLD.** (3). 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). 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). 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). 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). 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). 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). 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). 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). 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). 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). 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). 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). Same as PSC 450. Selected representative theorists in the development of political philosophy. Prerequisite: Three (3) hours of 200 level Political Science or History.

# STUDIES IN RELIGION

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## Department of History, Political Science and Philosophy

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.



# BIOLOGY

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## Department of Life and Physical Sciences

Professors: Benne, Lee, Scott  
Associate Professors: Busalacki, Stephan  
Assistant Professor: Morin

### 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  
Bachelor of Science with a major in Clinical Laboratory Science

### 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 or a 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; 3-4 credit hours of upper division electives from the following list: BIO 306, 400, 401, 403, 404, 416; 3-4 credit hours of upper division electives from the following list: BIO 400, 404, 406, 423; 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 103 or 150, 104L, 155, 301, 310, 312, 314, 423 and 426 or 429; 3-4 credit hours of upper division electives from the following list: BIO 306, 400, 401, 403, 404, 416; CHM 101, 102, PHI 308, MAT 117, and 4 credit hours in CHM, PHY, or ENV courses.

**Minor:** A minimum grade of "C" in BIO 103 or 150/104L, 155, 301, 409, 410, 426 or 429, and 3-4 hours biology electives (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 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 150     BIOLOGY I.** (3, fa) 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, 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: BIO 103 or 150 and BIO 104L.

- 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: BIO 103 or BIO 150.
- BIO 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.
- BIO 208**     **HUMAN ANATOMY AND PHYSIOLOGY.** (3, fa, sp, su). An integrated study of morphological and functional aspects of the human body. Prerequisite: 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 of BIO 208. Two two-hour laboratories.
- BIO 301**     **GENERAL MICROBIOLOGY.** (4, fa, sp, su, LF). Morphology, classification, physiology, and cultivation of microorganisms. Prerequisites: 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: 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: 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: 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: BIO 155 or AGR 101A and CHM 102. Three one-hour lectures and one three-hour laboratory.
- BIO 400**     **SPECIAL TOPICS IN BIOLOGY.** (1-4, LF may be required). Topic to be listed in course schedule; may or may not include laboratory, may re-enroll as topic changes. Prerequisite: 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: 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: 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. 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: BIO 103 or 150 and BIO 104L and junior standing. Four one-hour lectures.
- BIO 426** **TAXONOMIC BOTANY.** (4, fa of odd years, LF). The study of vascular plant diversity and evolutionary history. A plant collection will emphasize identification and recognition of regional species. Prerequisites: BIO 155 or 106 or AGR 107. Two one-hour lectures and two two-hour laboratories.
- BIO 429** **PLANT PHYSIOLOGY.** (4, fa of even years, LF). The study of how plants function. Chemical and physical processes at the level of the organism, organ, cell, organelle and biomolecule. Prerequisites: BIO 155 or 106 or AGR 107 and CHM 102. Three one-hour lectures and one three-hour laboratory.

## **B.S. in Clinical Laboratory Science**

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.

## **Required Courses**

**Major:** Bachelor of Science in Clinical Laboratory Science: 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.

## BS in Biology Academic Map

Semester 1	Hrs	Semester 2	Hrs
GE 101 - University Seminar	1	BIO 155 - Biology II	3
ENG 101 - Comp. & Rhet. I	3	HIS 102* - World Civ. II	4
BIO 150 - Biology I	3	ENG 102 - Comp. & Rhet. II	3
BIO 104L - Principles of Biology Lab	1	CHM 102 - General Chemistry II	4
CHM 101 - General Chemistry I	4		
MAT 111 - Intermediate Algebra	3		
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>14</b>
Semester 3	Hrs	Semester 4	Hrs
MAT 117 - Statistics	3	PSY 101 - General Psychology	3
BIO 208/209L^ - Hum. Anat. Phys. With Lab	5	CHM 302 - Organic Chemistry II	3
CHM 301 - Organic Chemistry I	3	CHM 304 - Organic Chemistry II Lab	1
CHM 303 - Organic Chemistry I Lab	1	HIS 206* - US History II	3
SPT 206 - Fundamentals of Speech	3	BIO 314 - General Physiology	4
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>14</b>
Semester 5	Hrs	Semester 6	Hrs
HIS 402/MUS 205* - Eth. His./Mus. of Black. Amer.	3	BIO 401'' - Immunology	3
BIO 310 - General Genetics	4	BIO 301 - General Microbiology	4
PED 111 - Pers. and Com. Health	2	PED* - Activity Course	1
SOC 301* - The Family	3	BIO 312 - Molec. Biology of the Cell	4
PHY 101^ - College Physics I	4	PHY 102^ - College Physics II	4
<b>Total Hours</b>	<b>16</b>	<b>Total Hours</b>	<b>16</b>
Semester 7	Hrs	Semester 8	Hrs
BIO 409 - Scientific Writing	3	CHM 202^ - Quant. Analysis	4
BIO 423'' - Ecology	3	NUR 335* - Death & Bereavement	3
ART 100* - Intro. to Art	3	BIO 410 - Seminar in Biology	1
BIO 429** - Plant Physiology	6	MUS 200* - World of Music	3
General Electives	3	General Electives	5
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>16</b>

\*These courses are suggestions from the general education options and can be substituted and are interchangeable in the pathway.

\*\*Either BIO 426 or BIO 429 may be taken to fulfill this specific degree requirement.

''These courses are examples from elective groups I or II within the biology major.

^These courses are required for many pre-professional programs and are recommended for all biology majors.

Students planning to attend various professional schools (i.e. medical, dental, pharmacy, etc.) should work closely with their advisor to assure the general electives include the appropriate courses to prepare them for entry into these programs.

## BS in Education with a Major in Biology Academic Map

Semester 1	Hrs	Semester 2	Hrs
GE 101 - University Seminar	1	BIO 155 - Biology II	4
ENG 101 - Comp. & Rhet. I	3	ENG 102 - Comp. & Rhet. II	3
BIO 150 - Biology I	3	CHM 102 - General Chemistry II	4
BIO 104L - Principles of Biology Lab	1	PED 111 - Pers. and Com. Health	2
CHM 101 - General Chemistry I	4	SA 202 - Introduction to Anthropology	3
MAT 117 - Statistics	3		
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>16</b>
Semester 3	Hrs	Semester 4	Hrs
BIO 301 - General Microbiology	4	PED 124* - Walking	1
BIO 310 - General Genetics	4	ART 100* - Intro. to Art	3
EDU 202 - Observations in Education	1	BIO 314 - General Physiology	4
EDU 204 - Educational Psychology	3	PHY 103 - Earth Science	3
HIS 205* - US History I	3	PHY 104L - Earth Science Lab	1
SPT 206 - Fundamentals of Speech	3	EDU 260 - Edu. and Cultural Diversity	3
		SE 221 - Edu. of Exceptional Child	2
<b>Total Hours</b>	<b>18</b>	<b>Total Hours</b>	<b>17</b>
Semester 5	Hrs	Semester 6	Hrs
HIS 101* - World Civ. I	3	BIO 401* - Immunology	3
HIS 203* - African American History	3	BIO 312 - Molec. Biology of the Cell	4
EDU 325 Assessment for Educators	3	PSY 101 - General Psychology	3
BIO 423 - Ecology	4	EDU 316 - Techniques of Teaching	3
BIO 426 - Taxonomic Botany	4	EDU 251 - Professional Educator	3
<b>Total Hours</b>	<b>17</b>	<b>Total Hours</b>	<b>16</b>
Semester 7	Hrs	Semester 8	Hrs
EDU 322 - Adolescent Development	2	EDU 475 - Seminar in Student Teaching	2
EDU 420 - Tech. of Teaching Reading	3	EDU 474 - Student Teaching	10
EDU 435 - Classroom Management	3		
EDU 304 – Practicum 7-12	2		
EDU 417S - Meth. in Teaching Science	2		
PHI 308 - Philosophy of Science	3		
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>12</b>



\*These courses are suggestions from the general education options and can be substituted and are interchangeable in the pathway.

”These courses are examples from elective groups I or II within the biology major.

### BS in Clinical Laboratory Science Academic Map

Semester 1	Hrs	Semester 2	Hrs
GE 101 - University Seminar	1	BIO 155 - Biology II	3
ENG 101 - Comp. & Rhet. I	3	HIS 102* - World Civ. II	4
BIO 150 - Biology I	3	ENG 102 - Comp. & Rhet. II	3
BIO 104L - Principles of Biology Lab	1	CHM 102 - General Chemistry II	4
CHM 101 - General Chemistry I	4	ART 100* - Intro. to Art	3
MAT 111 - Intermediate Algebra	3		
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>17</b>
Semester 3	Hrs	Semester 4	Hrs
MAT 117 - Statistics	3	PSY 101 - General Psychology	3
BIO 208/209L - Hum. Anat. Phys. With Lab	5	CHM 302 - Organic Chemistry II	3
CHM 301 - Organic Chemistry I	3	CHM 304 - Organic Chemistry II Lab	1
CHM 303 - Organic Chemistry I Lab	1	HIS 206* - US History II	3
SPT 206 - Fundamentals of Speech	3	BIO 314 - General Physiology	4
		MUS 200 * - World of Music	3
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>17</b>
Semester 5	Hrs	Semester 6	Hrs
HIS 402/MUS 205* - Eth. His./Mus. of Black. Amer.	3	BIO 401 - Immunology	3
BIO 310 - General Genetics	4	CHM 202 - Quant. Analysis	4
PED 111 - Pers. and Com. Health	2	PED 124* - Walking	1
SOC 301* - The Family	3	BIO 312 - Molec. Biology of the Cell	4
BIO 301 - General Microbiology	4	NUR 335* - Death & Bereavement	3
<b>Total Hours</b>	<b>16</b>	<b>Total Hours</b>	<b>15</b>
Semesters 7 and 8			
Thirty hours from an approved School of Medical Technology or an accredited hospital program will be transferred to Lincoln University in order to complete the degree requirements.			

\*These courses are suggestions from the general education options and can be substituted and are interchangeable in the pathway.

# CHEMISTRY

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## Department of Life and Physical Sciences

### 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 or 150, 104L, and PHI 308.

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 or 150, 104L, and PHI 308. **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, 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: MAT 111 before or with this course.

**CHM 102 GENERAL CHEMISTRY II.** (4, sp, 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: 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). 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: CHM 102, grade of "C". Two one-hour lectures and two three-hour laboratories.

- CHM 205 ELEMENTARY ORGANIC CHEMISTRY.** (4, LF, EP). A brief survey of organic and biochemistry. Does not fulfill any part of the requirement for the chemistry major. Prerequisites: CHM 103 or CHM 102.
- 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: CHM 102.
- CHM 302 ORGANIC CHEMISTRY II.** (3, sp). A continuation of CHM 301, by which it must be preceded. Three one-hour lectures.
- CHM 303 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 307 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: MAT 203, CHM 202, PHY 102 or 202.
- CHM 402 PHYSICAL CHEMISTRY II.** (3, sp, even ). A continuation of CHM 401. Three one-hour lectures.
- CHM 403 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 404 PHYSICAL CHEMISTRY LABORATORY II.** (1, sp, even, LF, EP). A continuation of 403. One three-hour laboratory.
- 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: CHM 202.
- CHM 409/410 CHEMISTRY SEMINAR.** (1, fa). 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, 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.

## BS in Chemistry Academic Map

Semester 1	Hrs	Semester 2	Hrs
GE 101 - University Seminar	1	CHM 102 - General Chemistry II	4
ENG 101 - Comp. & Rhet. I	3	HIS 206* - US History II	3
CHM 101 - General Chemistry I	4	ENG 102 - Comp. & Rhet. II	3
MAT 121 - Precalculus	5	MAT 123 - Calculus I	5
HIS 101* - World Civ. I	3	PED 124* - Walking	1
<b>Total Hours</b>	<b>16</b>	<b>Total Hours</b>	<b>16</b>
Semester 3	Hrs	Semester 4	Hrs
CHM 301 - Organic Chemistry I	3	CHM 302 - Organic Chemistry II	3
CHM 303 - Organic Chemistry I Lab	1	CHM 304 - Organic Chemistry II Lab	1
PHY 101^ - College Physics I	4	CHM 202 - Quant. Analysis	4
PED 111 - Pers. and Com. Health	2	PHY 102^ - College Physics II	4
MAT 203 - Calculus II	5	MAT 304 - Calculus III	5
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>17</b>
Semester 5	Hrs	Semester 6	Hrs
SPT 206 - Fundamentals of Speech	3	CHM 402 - Physical Chemistry II	3
MUS 200* - World of Music	3	CHM 404 - Physical Chemistry II Lab	1
CHM 401 - Physical Chemistry I	3	PSY 101 - General Psychology	3
CHM 403 - Physical Chemistry I Lab	1	ART 100* - Intro. to Art	3
CHM 405 - Inorganic Chemistry	4	SOC 301* - The Family	3
HIS 402/MUS 205* - Eth. His./Mus. of Black. Amer.	3	General Electives	3
	<b>17</b>	<b>Total Hours</b>	<b>16</b>
Semester 7	Hrs	Semester 8	Hrs
CHM 306 - Biochemistry	3	CHM 410 - Chemistry Seminar	1
CHM 307 - Biochemistry Lab	1	HIS 102*/NUR 335 - World Civ. II or Death & Bereavement	3
CHM 409 - Chemistry Seminar	1	MAT 461'' - Intro. to Math Prog.	3
General Electives	6	General Electives	6
<b>Total Hours</b>	<b>11</b>	<b>Total Hours</b>	<b>13</b>

\*These courses are suggestions from the general education options and can be substituted and are interchangeable in the pathway.

'' This course is recommended for chemistry majors.

^PHY 201 & PHY 202 may be substituted for PHY 101 & PHY 102.

## BS in Education with a Major in Chemistry Academic Map

Semester 1	Hrs	Semester 2	Hrs
GE 101 - University Seminar	1	CHM 102 - General Chemistry II	4
ENG 101 - Comp. & Rhet. I	3	BIO 103 - Principles of Biology	3
CHM 101 - General Chemistry I	4	BIO 104L - Principles of Biology Lab	1
MAT 123 - Calculus I	5	ENG 102 - Comp. & Rhet. II	3
PED 111 - Pers. and Com. Health	2	MAT 203 - Calculus II	5
PED 124* - Walking	1		
<b>Total Hours</b>	<b>16</b>	<b>Total Hours</b>	<b>16</b>
Semester 3	Hrs	Semester 4	Hrs
CHM 301 - Organic Chemistry I	3	CHM 302 - Organic Chemistry II	3
CHM 303 - Organic Chemistry I Lab	1	CHM 304 - Organic Chemistry II Lab	1
PHY 101 - College Physics I	4	CHM 202 - Quant. Analysis	4
MAT 304 - Calculus III	5	PHY 102 - College Physics II	4
SE 221 - Edu. of Exceptional Child	2	EDU 322 - Adolescent Development	2
EDU 202 - Observations in Education	1		
<b>Total Hours</b>	<b>16</b>	<b>Total Hours</b>	<b>14</b>
Semester 5	Hrs	Semester 6	Hrs
CHM 401 - Physical Chemistry I	3	SPT 206 - Fundamentals of Speech	3
CHM 403 - Physical Chemistry I Lab	1	HIS 203 - African American History	3
CHM 405 - Inorganic Chemistry	4	PSY 101 - General Psychology	3
CHM 306 - Biochemistry	3	ART 100* - Intro. to Art	3
CHM 307 - Biochemistry Lab	1	EDU 325 - Assessment for Educators	3
SA 201*- Intr. to Sociology	3		
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>15</b>
Semester 7	Hrs	Semester 8	Hrs
EDU 304 - Practicum 7-12	2	HIS 206* - US History II	3
EDU 316 - Techniques of Teaching	3	EDU 251 - Professional Educator	3
EDU 417S - Meth. in Teaching Science	2	EDU 204 - Educational Psychology	3
EDU 420 - Tech. of Teaching Reading	3	HIS 102* - World Civ. II	3
EDU 435 - Classroom Management	3	EDU 260 - Edu. and Cultural Diversity	3
PHI 308 - Philosophy of Science	3		
<b>Total Hours</b>	<b>16</b>	<b>Total Hours</b>	<b>15</b>
Semester 9	Hrs		

	.		
EDU 475 - Seminar in Student Teaching	2		
EDU 474 - Student Teaching	10		
<b>Total Hours</b>	<b>12</b>		

\*These courses are suggestions from the general education options and can be substituted and are interchangeable in the pathway.

# PHYSICS

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## Department of Life and Physical Sciences

Professor: Borgwald

Associate Professor: Balasubramanian

### 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: 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: 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). 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: 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: 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: PHY 201-202, Corequisite: MAT 304.
- PHY 301 MECHANICS.** (3). 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: PHY 201-202; MAT 304 corequisite.
- PHY 306 OPTICS.** (3). Geometrical and physical optics; image formation by lenses and mirrors, interference, diffraction, polarization, optical aspects of spectrometry. Three one-hour lectures. Prerequisites: PHY 201-202; MAT 304 corequisite.
- PHY 316 ELECTRICITY AND MAGNETISM.** (3). Charges at rest, charges in motion and their magnetic effects, Maxwell's equations and electromagnetic waves. Three one-hour lectures. Prerequisites: PHY 201-202; MAT 304 corequisite.
- PHY 320 MODERN PHYSICS.** (3). 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: PHY 201-202; MAT 304 corequisite.
- PHY 330 HEAT AND THERMODYNAMICS.** (3). Laws of thermodynamics, engine cycles, temperature, entropy, internal energy, phase rule, heat transfer. Three one-hour lectures. Prerequisite: PHY 201-202; MAT 304 corequisite.

- PHY 340L ADVANCED LABORATORY.** (1, 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: PHY 201-202.
- PHY 400 RESEARCH IN PHYSICS.** (1-3, fa, sp, 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, 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). 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: PHY 201-202, PHY 320, MAT 324.

### BS in Physics Academic Map

Semester 1	Hrs	Semester 2	Hrs
	.		.
PHY 201 - General Physics I	5	PHY 202 - General Physics II	5
MAT 123 - Calculus I	5	MAT 203 - Calculus II	5
GE 101 - University Seminar	1	ENG 102 - Comp. & Rhet. II	3
ENG 101 - Comp. & Rhet. I	3	PSY 101 - General Psychology	3
HIS 205* - US History I	3		
<b>Total Hours</b>	<b>17</b>	<b>Total Hours</b>	<b>16</b>
Semester 3	Hrs	Semester 4	Hrs
	.		.
PHY 320 - Modern Physics	3	PHY 330 - Heat & Thermodynamics	3
CHM 101 - General Chemistry I	4	PHY 304L - Advanced Lab	1
HIS 101* - World Civ. I	3	CHM 102 - General Chemistry II	4
Electives	4	MAT 304 - Calculus III	5
		MAT 324 - Differential Equations	3
<b>Total Hours</b>	<b>14</b>	<b>Total Hours</b>	<b>16</b>
Semester 5	Hrs	Semester 6	Hrs
	.		.
PHY 300 - Methods of Mathematical Physics	3	PHY 306 - Optics	3
PHY 301 - Mechanics	3	PED 124* - Walking	1
SPT 206 - Fundamentals of Speech	3	HIS 102* - World Civ. II	3
PED 111 - Pers. and Com. Health	2	ART 100* - Intro. to Art	3
Elective	3	Elective	4
<b>Total Hours</b>	<b>14</b>	<b>Total Hours</b>	<b>14</b>
Semester 7	Hrs	Semester 8	Hrs
	.		.
PHY 316 - Electricity & Magnetism	3	PHY 410 - Quantum Mechanics	3
MUS 205* - Mus. of Black. Amer.	3	SA 201* - Intr. to Sociology	3
MUS 200* - World of Music	3	Electives	9
Electives	6		
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>15</b>

\*These courses are suggestions from the general education options and can be substituted and are interchangeable in the pathway.

## BS in Education with a Major in Physics Academic Map

Semester 1	Hrs .	Semester 2	Hrs .
PHY 201 - General Physics I	5	PHY 202 - General Physics II	5
MAT 123 - Calculus I	5	MAT 203 - Calculus II	5
GE 101 - University Seminar	1	ENG 102 - Comp. & Rhet. II	3
ENG 101 - Comp. & Rhet. I	3	EDU 325- Assessment for Educators	3
PED 111 - Pers. and Com. Health	2		
<b>Total Hours</b>	<b>16</b>	<b>Total Hours</b>	<b>16</b>
Semester 3	Hrs .	Semester 4	Hrs .
PHY 320 - Modern Physics	3	PHY 330 - Heat & Thermodynamics	3
CHM 101 - General Chemistry I	4	PHY 304L - Advanced Lab	1
HIS 203* - African American History	3	CHM 102 - General Chemistry II	4
MAT 304 - Calculus III	5	SPT 206 - Fundamentals of Speech	3
PED - Activity Course Requirement	1	ART 100* - Intro. to Art	3
<b>Total Hours</b>	<b>16</b>	<b>Total Hours</b>	<b>14</b>
Semester 5	Hrs .	Semester 6	Hrs .
PHY 300 - Methods of Mathematical Physics	3	PHY 306 - Optics	3
PHY 301 - Mechanics	3	SA 201*- Intr. to Sociology	3
PHI 308 - Philosophy of Science	3	PSC 203* - Am. Nat. Gov.	3
EDU 202 - Observations in Education	1	MAT 324 - Differential Equations	3
EDU 204 - Educational Psychology	3	EDU 322 - Adolescent Development	2
SE 221 - Edu. of Exceptional Child	2		
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>14</b>
Semester 7	Hrs .	Semester 8	Hrs .
PHY 316 - Electricity & Magnetism	3	PHY 410 - Quantum Mechanics	3
PHY 103 - Earth Science	3	HIS 102* - World Civ. II	3
PHY 104L - Earth Science Lab	1	PSY 101 - General Psychology	3
EDU 316 - Techniques of Teaching	3	EDU 251 - Professional Educator	3
EDU 260 - Edu. and Cultural Diversity	3	EDU 420 - Tech. of Teaching Reading	3
EDU 417S - Meth. in Teaching Science	2	EDU 435 - Classroom Management	3
EDU 304 - Practicum 7-12	2		
<b>Total Hours</b>	<b>17</b>	<b>Total Hours</b>	<b>18</b>
Semester 9	Hrs .		
EDU 475 - Seminar in Student	2		

Teaching			
EDU 474 - Student Teaching	10		
<b>Total Hours</b>	<b>12</b>		

\*These courses are suggestions from the general education options and can be substituted and are interchangeable in the pathway.

## Department of Life and Physical Sciences

### Pre-Professional Training

Many educators believe that the best preparation for post-undergraduate professional training is completion of four years of college work. Accordingly, students who desire to pursue the study of medicine, osteopathic medicine, dentistry, veterinary medicine, podiatry, optometry or law are, in general, strongly urged to complete a four-year program leading to a bachelor's degree before entering these professional schools.

Through careful planning and consultation with the pre-professional advisor, a student can complete all pre-professional requirements while simultaneously satisfying requirements for a bachelor's degree.

### Pre-Medical

Lincoln University is prepared to provide adequate training for professional schools; however, there are no majors in pre-professional training for medical fields. While a heavy concentration of chemistry, biology and physics courses is recommended for the prospective medical student, completion of coursework is not a guarantee of admission to a professional school. In fact, very few students are accepted for admission without having completed a four-year degree program. The admissions offices of medical schools evaluate grade point averages and course content but also consider scores on the standardized pre-professional tests (MCAT, DAT). Students should pursue a course of study which will give them a broad scientific background.

Pre-medical advisement is conducted by the pre-professional advisors in the Department of Life and Physical Sciences.

Undergraduate work for students planning health-professional careers as medical physicians, dental physicians and osteopathic physicians should include the following:

Required Courses	Semesters
Biology (with lab) .....	1
Other biology (with lab)-may include:	
anatomy, embryology, genetics, or others .....	2
Inorganic chemistry (with lab).....	2
Organic chemistry (with lab) .....	2
General physics (with lab) .....	2
Mathematics-algebra, calculus, statistics, or trigonometry .....	2
English composition and literature .....	2

### Pre-Dental, Pre-Podiatry, Pre-Optometry

Students preparing for dentistry, podiatry, and optometry are advised to follow the courses suggested for pre-medical students.

### Pre-Pharmacy

The first professional degree program in pharmacy, which qualifies the graduate for licensure examination, may be that leading to the baccalaureate degree in pharmacy or the doctor of pharmacy degree. The baccalaureate curriculum customarily requires a five-year program of study. A doctor of pharmacy program may also be designed as a post-baccalaureate in pharmacy curriculum with a combined period of study usually exceeding six years. Students at Lincoln University may complete up to two years of pre-professional study in any of the above degree programs. Courses recommended are similar to those in the freshman and sophomore curriculum for the B.S. in chemistry plus

coursework in the biological sciences and social/behavioral sciences. However, since requirements vary from school to school, including the requirements for taking the Pharmacy College Admission Test (PCAT), students are encouraged to seek academic advising and to contact specific colleges of interest or the American Association of Colleges of Pharmacy, 4630 Montgomery Avenue, suite 201, Bethesda, MD 20814.

**Pre-Veterinary Medicine**

A strong high school background in biology, chemistry, mathematics and physics is highly beneficial for those interested in pursuing veterinary medicine as a career. The rigorous university curriculum is designed to allow students to meet the 60 hour minimum requirement for application to the College of Veterinary Medicine at the University of Missouri-Columbia (See Animal Science Curriculum for an example of the specific courses at Lincoln University that meet the requirements).

Students completing 1) the courses outlined below, and 2) the Veterinary College Admission Test (VCAT) within three years of application and receiving a minimum score of 20 are eligible to apply. However, most students admitted to each freshman class in veterinary school have completed their Bachelor of Science degrees. The majority of these students have majored in Animal Science or Biology.

Non-academic activities are also important criteria for acceptance with a minimum 40 hours required observance of veterinarian(s) actively engaged in clinical work. Additional public activities are highly recommended. For additional information, contact either the Department of Agricultural and Environmental Sciences or the Department of Life and Physical Sciences.

Required courses	Semesters
English or communication skills.....	2
Mathematics .....	2
Inorganic chemistry .....	2
Organic chemistry .....	2
Biochemistry .....	1
Physics .....	2
Biological science .....	3
Social sciences or humanistic studies .....	4



## DEPARTMENT OF MILITARY SCIENCE

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Professor: Ferguson  
Instructors: Hardy, Murray

### 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 Lateral Entry-Cadet Initial Entry Training (CIET) prior to entering the MSC 301 course. CIET provides placement credit for MSC 101, 102, 201 and 202 and six elective credit hours toward graduation. Students will receive approximately \$800 for graduating CIET.

3. **Simultaneous Membership Program (SMP):** Students who are members of the U.S. Army Reserve or National Guard may receive placement credit for the basic course. Provided they meet all other conditions for enrollment, they can enroll in MSC 301 after attaining junior status. SMP students remain with their Reserve or Guard unit and are paid at the rate of an E-5, Sergeant (approximately \$275 per month) from their unit while simultaneously participating in ROTC. SMPs may be eligible for state or federal tuition assistance (see unit clerk). Students receive a personal allowance worth \$450-\$500 per month for juniors and seniors respectively. These students may also be eligible for the Montgomery G.I. Bill & Kicker (\$309 and \$350 per month for full-time students). Non-scholarship students may participate in the SMP once accepted for enlistment in the Army Reserve or National Guard and attaining sophomore academic status.
4. **Veterans:** Military veterans may be allowed placement credit for the basic course. Provided they meet all other conditions for enrollment, they can enroll in MSC 301 after attaining junior status.
5. **Junior ROTC graduates:** Graduates of Junior ROTC programs in high school, junior college, or military schools may be given placement credit for the basic course. Provided they meet all other conditions for enrollment, they can enroll in MSC 301 after attaining junior status.

### **Army ROTC Benefits**

The Army ROTC Program at Lincoln University offers students many benefits.

1. **Opportunity for a challenging, important, highly respected, and well-paid job** in one of many professional fields. Army officers are given challenging leadership assignments in student-selected fields at home or abroad. Starting compensation is approximately \$48,000 per year with annual salary increases and continual opportunities for promotion.
2. **Scholarships.** Qualifying students are eligible to compete for four-, three-, and two-year ROTC scholarships. These scholarships pay for tuition, a \$1,200 per year book allowance, and most other mandatory fees. Some ROTC scholarship recipients are awarded the Lincoln ROTC performance grant-in-aid which covers a portion of standard room and board costs for on-campus housing.
3. **Students (scholarship and non-scholarship) accepted into the advanced program (MSIII and IV) of Army ROTC receive approximately \$450.00 to \$500.00 per month tax-free personal allowance.**
4. **Two career choices:** Students receiving commissions as second lieutenants have the option of requesting active duty or the Army Reserves/National Guard.
5. **Competitive Benefits:** In addition to competitive salaries, military officers receive a tax-free on-post housing allowance, 100% paid medical and dental coverage, 30 days paid vacation/year, world-wide travel, reduced-price shopping.
6. **Training in leadership and personnel management:** Regardless of an officer's area of study, the ability to work effectively with people is a key to personal satisfaction, effective service, and career advancement. Military Science provides constant student leadership assignments that provide hands-on experience in planning, supervising, training, counseling, and decision making.
7. **Opportunity for additional training and travel:** Cadets can compete 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.

8. Multiple extracurricular and social activities: The Department of Military Science sponsors the Ranger Challenge Team, Color Guard, Drill Team, and Military Ball.
9. A meaningful contribution to the defense of freedom and democracy of the United States of America.
10. Opportunities to earn an advanced degree with government assistance/expense.
11. Career opportunities in over 23 fields and specialties.
12. 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. Army Combat Uniforms (ACUs) are provided and must be worn to labs and classes.

## Required Courses

**Major:** None

**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 Cadet Initial Entry Training (CIET) or equivalent or Cadet Leader Course (CLC). CIET is a four-week summer field training program designed to evaluate students' abilities to handle themselves and others in new and demanding situations. CLC 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 Thursday afternoons from 3:00-5:00 p.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 "Cadet Leader Course (CLC)" 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 CLC and return, food, housing, and clothing.
4. All contracted students enrolled in ROTC receive a subsistence allowance of \$300-\$500 per month (\$3,000-\$5,000 per year) for freshmen through seniors respectively.
5. Physical training (PT) is required for all contracted cadets.

**Professional Military Education Requirements Necessary for Commissioning.**

In addition to completion of required Military Science courses and the Cadet Leader Course, a student must demonstrate proficiency in Military History by completing one of the following recommended courses: Military History, American History I, American History II, War in American Society, Civil War and Reconstruction, 20th Century Europe, Modern Germany, or Modern United States. Alternate courses with the permission of Professor of Military Science.

# CRIMINAL JUSTICE ADMINISTRATION

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## Department of Social and Behavioral Sciences

Professor: Bah

Assistant Professors: Moore, Trombley, Herrington

### 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 major in Criminal Justice Administration with possible emphasis in General, Law Enforcement, Corrections, Research, or Courts.

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.

### Computer Skills Requirement

Upon completion of the Criminal Justice Administration program at Lincoln University, students will have gained a basic understanding of current computer technologies, as well as the general use and application of current and emerging software. Since technology continues to play a vital role in the field of Criminal Justice, it is essential that criminal justice students demonstrate functional proficiency with technology. Students' abilities will be validated through the successful completion (as a

minimum) of CS 105 (Business Applications for the Microcomputer), its equivalent or higher; as well as other computer or technology related courses as designated by the Criminal Justice faculty.

## Required Courses

**Major:** B.S. in Criminal Justice Administration with a *General emphasis*;

A minimum grade of “C” in CJ 204, CJ 208, CJ 311, CJ 320, CJ 340, CJ 345, CJ 485, and SOC 405; 15 elective hours from any other CJ, LE or COR course; or HIS414, HIS 415, HIS485, PSC 310, PSC 430, PSY 404, SOC 303, SOC 402, SOC 403, SOC 406, SS452, and SS452. In addition, the student must complete with a minimum grade of “C” 3 hours of ethnic perspective. Ethnic perspective courses include AAS 200, ANT 311, ANT 411, ART 205, CJ 351, HIS 203, HIS 402, HIS 403, MUS 205, PHI 208, PSC 350, SOC 302, and SOC 306. Also required are 3 hours of any 400-level behavioral elective, not previously completed, from the disciplines of Anthropology, Economics, Political Science, Psychology, Sociology, or Social Work.

For a *Law Enforcement emphasis*, courses include : LE 410, LE 420, LE 430, and CJ 421; LE 450 and LE 451 or CJ 460; and 6 hours from CJ 308, CJ 351, CJ 475, CJ 480, CJ 485, HIS 415, PSC 310, PSC 430, PSY 404, SOC 303, SOC 402, SOC 403, and SOC 406.

For a *Corrections emphasis*, courses include: COR 415, COR 425, and COR 435; COR 455 and COR 456 or CJ 460; SW 401 or SW 402; and 6 hours from CJ 308, CJ 351, CJ 421, CJ 475, CJ 480, CJ 485, SW 201, SW 301, HIS 415, SOC 303, SOC 402, SOC 403, SOC 406, PSC 310, and PSY 404.

For a *Research emphasis*, courses include: SS 451, SS 452, HIS 385, and CJ 485; PSY 208, SOC 415 or SOC 453; and 6 hours from CJ 351, PSC 420, PSC 440, PSC 450, HIS 476, ANT 410, SOC 401 and SOC 404.

For a *Courts emphasis*, courses include: PSC 430, CJ 475, SOC 406, PSC 310, BAD 275 or BAD 412, and CJ 308 or PHI 304; and 6 hours from CJ 351, CJ 480, CJ 485, HIS 415, PSY 404, SOC 303, SOC 402, and SOC 403.

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 consider taking MAT-117 as the Mathematics Skills course required in Area #2 of the General Education requirements.

**Major:** A.A. in Criminal Justice Administration

A minimum grade of "C" in CJ204, CJ208, CJ311, CJ320, CJ340, CJ345, and CJ485; SOC 405. Additionally, the student must complete (with a grade of “C” or better) a 3 credit hour ethnic perspective course. Ethnic perspective courses include AAS 200, ANT 311, ANT 411, ART 205, CJ 351, HIS 203, HIS 402, HIS 403, MUS 205, PHI 208, PSC 350, SOC 302, and SOC 306. Additionally, the AA degree requires the completion of a modified list of General Education Courses (*see chart below for details*).

**Minor:** Criminal Justice Administration

A minimum grade of "C" in, CJ204, CJ208, CJ311, CJ320, CJ340, CJ345, and CJ485; and SOC 405. Additionally, the student must complete (with a grade of

“C” or better) a 3 credit hour ethnic perspective course. Ethnic perspective courses include AAS 200, ANT 311, ANT 411, ART 205, CJ 351, HIS 203, HIS 402, HIS 403, MUS 205, PHI 208, PSC 350, SOC 302, and SOC 306.

Note: For a **Legal Studies** minor, see Interdisciplinary Studies (Legal Studies – Minor).

## 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.

### Group I: Core Courses

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

- CJ 201 FOUNDATIONS OF CRIMINAL JUSTICE.** (3, fa). Historical and comparative analysis of the development law and criminal justice systems, from fundamentals to contemporary, or advanced practices. NOTE: This course is only required for students who began a Criminal Justice Administration degree prior to the Fall 2013 semester.
- CJ 204 INTRODUCTION TO Policing Practices** (3, fa). 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 311 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 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 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 POLICING IN AMERICA.** (3, fa). 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 485 CRIMINAL JUSTICE RESEARCH METHODS.** (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 204, CJ 208 and CJ 311.
- SOC 405 CRIMINOLOGY.** (3, fa). Survey of classical and contemporary theories of criminal behavior, sources of crime, types of crime, including (but not limited to) property crime, violent crime, computer crime, corporate crime and political crime. SA201, or SA 151H, or SA202, or SOC301.



## **Group II: Law Enforcement**

- LE 410 POLICE ADMINISTRATION.** (3, fa). Theory and practice of governmental management in law enforcement agencies.
- LE 420 CRIMINAL EVIDENCE AND PROCEDURES.** (3, sp). Exploration of due process issues including; law of arrest, searches, and seizures; rules of evidence; interrogations and confessions; and current developments.
- LE 430 POLICE-COMMUNITY RELATIONS.** (3, fa). Issues regarding citizen involvement and relations with criminal justice entities; the integration and use of community resources; and the roles and behavior of police.

## **Group III: Corrections**

- COR 415 CORRECTIONS ADMINISTRATION.** (3, fa). Regulations, procedures, management, and philosophy of custodial institutions.
- COR 425 CORRECTIONAL SERVICES IN THE COMMUNITY.** (3, fa). Community, faith, privatization and other alternatives to corrections methodology.
- COR 435 PROBATION AND PAROLE.** (3, sp). Role of probation and parole in correctional process and relationship with other elements of the criminal justice system.
- SW 402 SOCIAL GROUP WORK.** (3, fa, even). Social work laboratory designed to develop leadership skills and methods of intervention appropriate for a variety of groups in social work settings.

## **Group IV: Internship(s) and Practicum(s)**

Junior status and consent of instructor.

- LE 450 INTERNSHIP IN LAW ENFORCEMENT.** (3, 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: LE 451. Prerequisite: Student must be a junior or senior in good standing.
- LE 451 SEMINAR IN LAW ENFORCEMENT.** (3, 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: LE 450. Prerequisite: Student must be a junior or senior in good standing.
- COR 455 INTERNSHIP IN CORRECTIONS.** (3, sp, su). *Same as LE 450 except in a corrections agency. Co-requisite: COR 456.*
- COR 456 SEMINAR IN CORRECTIONS.** (3, sp, su). *Same as LE 451 except in a corrections agency. Co-requisite: COR 455.*
- 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.

### **Group V: Other**

- CJ 175** **SPECIAL TOPICS.** (1-5). Topic to be listed in course schedule. May enroll again as topic changes. Prerequisites: See course schedule
- CJ 351** **ETHNICITY IN CRIMINAL JUSTICE.** (3, fa, odd). Examines the role of race and ethnicity in the criminal justice system. Prerequisites: 12 hours of Criminal Justice (CJ), Law Enforcement (LE), or Corrections (COR) coursework.
- CJ 411** **ETHICS IN CRIMINAL JUSTICE.** (3, sp or su odd). 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), Law Enforcement (LE), or Corrections (COR) coursework.
- 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 475** **CRIMINAL LAW.** (3, sp). 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 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 310 or CJ 330.
- CJ 485** **CRIMINAL JUSTICE RESEARCH METHODS.** (3, fa, even). Introduction to bibliography, scholarly methods, and critical evaluation of criminal justice research. Prerequisites: 12 hours of Criminal Justice (CJ), Law Enforcement (LE), or Corrections (COR) coursework.
- 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 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.

**BS in Criminal Justice  
Pathway  
Academic Map (Fall Admission)**

<b>Semester 1</b>		<b>Hr s.</b>	<b>Semester 2</b>		<b>Hrs .</b>
GE 101	University Seminar	1	ENV 103/104 L	Introduction to Environmental Science/Lab	4
PSY 101	General Psychology	3	PED 111	Pers. & Comm. Health	2
SA 201	Introduction to Sociology	3	ENG 102	Comp/Rhet. II	3
ENG 101	Comp/Rhet. I	3	MAT 117	Elementary Statistics	3
CS 105	Bus. App. Microcomputers	3	CJ 208	Intro. To Corrections Practices	3
CJ 204	Intro. To Policing Practices	3			
- TOTAL :		<b>16</b>	TOTAL :		<b>15</b>

<b>Semester 3</b>		<b>Hr s.</b>	<b>Semester 4</b>		<b>Hrs .</b>
SPT 206	Fundamentals of Speech	3	PHY 103	Earth Science	3
HIS 205	American History I	3	SPT 209	Intro to Theater	3
PHI 101	Principles of Reasoning	3	HIS 102	World Civilization II	3
CD 200	Cultural Diversity (or subst.)	3	CJ 340	American Court System	3
CJ 311	Criminal Justice System	3	CJ/COR /LE	Elective	3
PED 1XX	Activity	1			
- TOTAL :		<b>16</b>	TOTAL :		<b>15</b>

<b>Semester 5</b>		<b>Hr s.</b>	<b>Semester 6</b>		<b>Hrs .</b>
SPA	Spanish for Law	3	SOC	Criminology	3

300	Enforcement		405		
CJ 351	Ethnicity in Criminal Justice	3	CJ 320	Legal Aspects in Crim. Justice	3
CJ 345	Cont. Policing in America	3	CJ/COR /LE	Elective	3
CJ/COR /LE	Elective	3	CJ/COR /LE	Elective	3
	Elective (upper level)	3		Elective (upper level)	3
- TOTAL :		15	TOTAL :		15

Semester 7		Hr s.	Semester 8		Hrs .
CJ 485	CJ Research Methods	3	SOC 406	Juvenile Delinquency	3
CJ/COR /LE	Elective	3	LE 450/ COR 455	Internship	3
CJ/COR /LE	Elective	3	LE 451/ COR 456	Internship Seminar	3
	Elective (upper level)	3	CJ/COR /LE	Elective	3
	Elective	3		Elective	3
- TOTAL :		15	TOTAL :		15

#### Symbol Guide

*Writing Intensive Gen Ed. Hours:	#Field Experience Education Hours:	+Online Course Total Hours:	\$Hybrid Course	&8-week Course
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# PSYCHOLOGY

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## Department of Social and Behavioral Sciences

Professors: Aruguete, DeBord, Ghinescu

Associate Professors:, Homann, Johnson

### 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 faculty of the Psychology program are 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 access 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

A minimum grade of "C" in PSY 101, 102, 207, 208, 209L, 300, 303, 400, 404, 475, and nine hours of PSY electives at the upper division (300-400) level. During their final semester before graduation, all majors must take the Senior Exit Exam for psychology during the Lincoln University Assessment week.

**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 or PSY 101H.
- PSY 151H HONORS GENERAL PSYCHOLOGY.** (3, sp). 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, sp even). 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 ABNORMAL PSYCHOLOGY.** (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.** (1-4). The study of any psychological topic not otherwise included in the curriculum. Prerequisites: Nine hours of PSY including PSY 101.
- 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). An introduction to the practice of psychotherapy. Students will be introduced to 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. An emphasis will be placed on the theory, development, and use of tests of mental ability (including intelligence), as well as personality (including anxiety and stress). Course will include a consideration of 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. This course is designated writing intensive. 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 prior 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.

**BS In Psychology  
Pathway  
Academic Map (Fall Admission)**

<b>Semester 1</b>		<b>Hr s.</b>	<b>Semester 2</b>		<b>Hrs .</b>
GE 101	University Seminar	1	PSY 102	Advanced General Psychology	3
SA 201/202 / SOC 301	Intro to Sociology/Intro to Anthropology/The Family	3	HIS 205/206	US History I/II	3
PED 111	Pers. & Comm. Health	2	ENG 102	Comp/Rhet. II	3
ENG 101	Comp/Rhet. I	3	MAT 111	Intermediate Algebra	3
PSY 101	General Psychology	3		Humanities/Fine Arts	3
HIS 101/102	World Civilization I/II	3			
- TOTAL :		<b>15</b>	TOTAL :		<b>15</b>

<b>Semester 3</b>		<b>Hr s.</b>	<b>Semester 4</b>		<b>Hrs .</b>
PSY 208/209 L	Experimental Psychology/Lab	4	PSY 207	Advanced Psychological Statistics	3
MAT 117	Elementary Statistics	3	PED 1XX	Activity	1
CD	US Cultural Diversity Elective	3	SCIEN CE	Science elective	3
	Humanities/Fine Arts	3	CD	International Cultural Diversity	3
	Minor	3	SPT 206	Fundamentals of Speech	3
				Minor	3
- TOTAL :		<b>16</b>	TOTAL :		<b>16</b>



Semester 5		Hrs	Semester 6		Hrs
PSY 303	Social Psychology	3	PSY 300	Psychology of Learning	3
PSY 3XX-4XX	Elective	3	PSY 3XX-4XX	Elective	3
	Minor	3		Minor	3
	Upper Division Elective	3		Upper Division Elective	3
	Any Elective	3		Any Elective	3
- TOTAL :		15	TOTAL :		15

Semester 7		Hrs	Semester 8		Hrs
PSY 404	Abnormal Psychology	3	PSY 475	Hist. & Systems of Psychology	3
PSY 400	Physiological Psychology	3	PSY 3XX/4XX	Elective	3
	Minor	3		Minor	3
	Minor	3		Upper Division Elective	3
	Upper Division Elective	3		Any Elective	3
- TOTAL :		15	TOTAL :		15

#### Symbol Guide

*Writing Intensive Gen Ed. Hours:	#Field Experience Education Hours:	+Online Course Total Hours:	\$Hybrid Course	&8-week Course
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# SOCIOLOGY AND ANTHROPOLOGY

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## Department of Social and Behavioral Sciences

Professors: Bah, Ross  
Assistant Professor: Greene

### Mission

The mission of the Sociology and Anthropology programs is to foster a supportive learning environment that emphasizes an understanding of human society, its institutions, its structures and its processes as related to social theory. The curriculum emphasizes theoretical foundations, research methods, anthropological perspectives and social work practice, designed to prepare students for careers or graduate professional education.

### Degrees Offered

Bachelor of Arts with a major in Sociology  
Bachelor of Science with a major in Sociology  
Bachelor of Science in Social Science Education with emphasis in Sociology (see Social Science section of *Bulletin*)

### Objectives

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

1. develop skills in critical thinking, problem solving and analysis
2. develop skills in the appropriate application of social theory in the research process
3. understand the relevance and interplay of culture, social change, social interaction, stratification and social structures and social practices that operate and affect society, both nationally and globally
4. prepare for effective and responsible participation in professional/graduate study or employment

### Assessment Program

A variety of assessment measures are used in assessing 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. All students will take the ETS Major Field Test.

### Computer Skills Requirement

Students will have the opportunity to learn computer applications and uses in the social sciences by taking SS451-Data Collection and SS452-Data Analysis, which are required of all majors. Upon completion of these courses, students will have gained proficiencies in operating windows-based machines and various data analysis software

programs, including SPSS, the most widely used statistical software program in the social sciences.

## Required Courses

**Major:** B.A. or B.S. in Sociology

The major requires a minimum of 33 hours with a grade of “C” or better in the following: S/A 201 and SOC 301, SOC 303, SOC 302 or 306, 3 hours upper-division Anthropology; 3 hours upper-division Social Work; SS 451 and 452; SOC 453, SOC 415 and 454. Students may elect to take as many electives in the major as they desire upon completion of the required courses for the major.

**Minor\*:** Sociology: S/A 201 and 15 hours of Sociology including 6 hrs. at the 400-level.

**Minor\*:** Anthropology: S/A 202 and 15 hours of Anthropology including 6 hrs. at the 400-level.

**Minor\*:** Social Work: SW 201, 301, 401, 402, 404 and 405. Students who minor in social work and desire to continue graduate education at the University of Missouri if otherwise qualified for admission, (through its special MSW articulation agreement with Lincoln) may receive 9 credits with the successful completion of a grade of “B” or better in SW 301, SW 404, and SW 405. Lincoln students who are admitted to the MSW program will receive a waiver of each of the three courses in which they meet the grade standards and will be eligible for the MU MSW degree of between fifty-one (51) and fifty-seven (57) credit hours.

Note: Information about the African American Studies minor is on p. 189.

\*Must have a grade of “C” or better in all minor courses.

**Graduation:** A total of 121 semester hours of credit is required for graduation. Pre-college-level courses (MAT 50, MAT 51, ENG 90 and ENG 95) do not count toward the 121 hour requirement. A minimum of 40 hours of upper division courses (those numbered 300-499) are required for graduation. There are no exceptions to the 40 hour requirement.

## Course Descriptions

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

### Group I: Basic

Prerequisites are not required.

**S/A 151H HONORS INTRODUCTION TO SOCIOLOGY.** (3, fa). 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. 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. May re-enroll as topic changes. May not be used as a general education requirement.
- S/A 201** **INTRODUCTION TO SOCIOLOGY.** (3). This course is designed to introduce students to the fundamental theories, methodological approaches and basic principles used in sociology. The course examines the systematic study of social relationships and interactions. Detailed study of socialization, social structures, institutions, inequality, social control, gender, ethnicity, the economy and globalization will be engaged. This course serves as a prerequisite to all sociology courses.
- S/A 200** **American Cultural Diversity.** (3). This course focuses on multidisciplinary approaches to understanding cultural variations and constructs, social interaction and change. A conceptual framework designed to emphasize ethnicity, identity, enclaves and socialization processes in a complex multicultural society is included. This course meets the general education requirement for Area 7: American Cultural Diversity.
- S/A 202** **INTRODUCTION TO ANTHROPOLOGY.** (3, fa). This multimedia course will introduce four major subfields of anthropology: physical anthropology, archaeology, cultural anthropology and linguistics. Human origins and the environments that humans inhabit will be extensively explored.

### **Group II: Sociology Service**

Prerequisites are not required.

- SOC 301** **THE FAMILY.** (3). The study of the family as a basic social institution; an analysis of principles and problems associated with the organization, disorganization and reorganization of the family in American society is discussed. Theoretical viewpoints, social policies, up-to-date research and self- assessment relationship scales are included.
- SOC 302** **MINORITY RELATIONS.** (3, su). Focuses on the structured inequality inherent in race relations in American society. An examination of the social construction of race, racism, gender, ethnicity and identity are engaged. Diversity and multiculturalism in relation to the problems and issues of various minority groups is included.
- SOC 303** **SOCIAL PROBLEMS.** (3, fa). An in-depth overview of the institutional and structural sources of contemporary social problems. The course applies sociological theory to the analysis of contemporary social problems in the U.S. This course is designated writing intensive.
- SOC 306** **SOCIOLOGY OF BLACK AMERICANS.** (3, sp, odd). Examines the sociological implications of African American experiences in the U.S. The emergence and evolution of Afrocentric paradigm, classical African American social theories and innovative conceptual and methodological approaches will be explored.

### **Group III: Advanced Sociology**

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

- SOC 401 SOCIAL STRATIFICATION.** (3, sp, odd). Survey of patterns of inequality in contemporary society, including ethnicity, gender, class, status, and power. Focus on social structures which perpetuate social inequalities.
- SOC 402 MODERN SOCIAL ORGANIZATIONS.** (3, su or sp, even). Focus on the analysis of models in human society. Topics for discussion include development, maintenance, and changes in social organizations; various models of studying organizational structures; organizational factors in human interactions; and the relations of work organization to the individual's life cycle.
- SOC 403 COMMUNITY AND SOCIAL CHANGE.** (3, fa, odd). Survey of different types of communities and the dynamics by which communities change. Organization of urban and rural communities, patterns and sources of change will be explored.
- SOC 404 POPULATION AND DEMOGRAPHY.** (3 s, sp, even). Population theories; analysis of the growth, composition, distribution and the changing patterns of the population. Analyzes the significance of population changes on the society.
- SOC 405 CRIMINOLOGY.** (3, fa). Survey of classical and contemporary theories of criminal behavior, sources of crime, types of crimes, including property crime, violent crime, corporate crime and political crime.
- 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.
- SOC 408 SOCIOLOGY OF AGING.** (3, fa, odd). A systematic presentation of the field of gerontology related to the demographic, health and cultural factors in aging. 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 CARE.** (3, sp, odd). Comparative study of different health care systems, social construction of health and illness, social organization of health care work and occupations.
- SOC 412 SOCIOLOGY OF EDUCATION.** (3, fa, su, even). 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 sp. even). Overview of theories of deviant behavior and the social classification of deviance as a means of social control. Includes study of a wide range of deviant behavior, including elite deviance and mental illness.

**Group IV: Sociology: Other**  
Prerequisite: S/A 201 and junior status

- SOC 415**      **CLASSICAL SOCIOLOGICAL THEORY.** (3, fa, even). Survey of major classical sociologists. Emphasis on the history, emergence and development of sociology as a mode of inquiry for social sciences.
- SOC 453**      **CONTEMPORARY SOCIOLOGICAL THEORY.** (3, sp). Survey of 20<sup>th</sup> century developments in social theory, including European and American theorists, as well as recent developments in feminist and postmodern perspectives.
- SOC 454**      **SEMINAR IN SOCIOLOGY.** (3, fa). This is a capstone course that reviews the basic theoretical paradigms and theorists used in sociology. In-depth analysis and application of theories to current issues in our social world is discussed. Prerequisite: Junior and senior sociology majors only.
- SOC 490-492**      **DIRECTED STUDY.** (1-3). Independent research. Prerequisite: Consent of instructor required.
- SOC 495-498**      **SPECIAL SUBJECTS.** (1-3). Topic to be listed in course schedule. May enroll again as topic changes. Prerequisite: See course schedule.
- SOC 499**      **INTERNSHIP.** (3, sp). Opportunity to gain work experience in field of government agency. Consent of instructor required.
- SS 451**      **DATA COLLECTION METHODS.** (3, fa). Research design, methodology, and techniques of data collection. Prerequisite: 9 hours of Social Science.
- SS 452**      **DATA ANALYSIS METHODS.** (3, sp). Quantification, measurement, computerization, presentation, and analysis of data. 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, sp, odd). The evolutionary development of humans, focusing on the emergence of Hominidae at the end of the Miocene, and an analysis of the major archaeological sites of Africa (Nubia, Egypt, Great Zimbabwe), the ancient Near East (Anatolia, Mesopotamia), Asia (Thailand, China), the Mediterranean (Mycenae, Etruria), and the Americas (Palenque, Teotihuacan, Cahokia).
- ANT 311**      **WORLD ETHNOGRAPHY.** (3, sp, even). Comparative ethnography of non-Western societies using a socio-cultural anthropology approach including an examination of the societies' worldviews, subsistence patterns, ethno medicine, mating system, and sustainability.

### **Group VI: Anthropology Advanced**

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

- ANT 407 SOCIOCULTURAL CHANGE.** (3, sp, even). 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, fa, odd). 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, even). 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.

**BS in Sociology Pathway  
Academic Map (Fall Admission)**

<b>Semester 1</b>		<b>Hr s.</b>	<b>Semester 2</b>		<b>Hrs .</b>
GE 101	University Seminar	1	ENG 102	Comp/Rhet. II	
LS 101	Information Literacy	1	HIS/PS C	HIS 205/206 Am. Hist. I/II PSC 203 Am. Nat'l Gov't	3
PED 111	Pers. & Comm. Health	2	ENG 102	Comp/Rhet. II	3
ENG 101	Comp/Rhet. I	3	AAS/ART/MUS/SPT	AAS 200; ART 100,330,331; MUS 200, 205; SPT 209	3
PSY 101	General Psychology	3	MAT 111	Intermediate Algebra	3
HIS 101/102	World Civilizations I/II	3	SPT 206	Fundamentals of Speech	3
SA 201	Introduction to Sociology	3	PED 1XX	Activity	
- TOTAL :		<b>16</b>	TOTAL :		<b>15</b>

<b>Semester 3</b>		<b>Hr s.</b>	<b>Semester 4</b>		<b>Hrs .</b>
SOC 301	The Family	3	CD	International Cultural Diversity	3
SCIEN CE/LAB	Biology, Chemistry, Physics, Environ. Science, Experimental Psychology with Lab	4	CD	U.S. Cultural Diversity	3
MAT 117	Elementary Statistics	3	SCIEN CE	Science	3
AAS/ART/MUS/SPT	AAS 200; ART 100,330,331; MUS 200, 205; SPT 209	3	CS 103/105	Intro to MS Office/Bus. Apps. For Microcomputer	3
SOC 303	Social Problems	3	SOC 302/306	Minority Relations/ Sociology of Black	3



				Americans	
- TOTAL :		16	TOTAL :		15

Semester 5		Hr s.	Semester 6		Hrs .
SS 451	Data Collection	3	ANT	Anthropology 310-498	3
SOC/SS OC	SOC 401,402,403,404,405, 406, 409,412, 490- 492, 495-498, SSOC 499.	9	SS 452	Data Analysis	3
	Elective/Minor	3	SOC/SS OC	SOC 401,402,403,404,405, 406, 409,412, 490- 492, 495-498, SSOC 499 or Minor	9
- TOTAL :		15	TOTAL :		15

Semester 7		Hr s.	Semester 8		Hrs .
SOC 415	Classical Theory	3	SOC 453	Contemporary Theory	3
SOC 454	Seminar in Sociology	3		Sociology Elective/Minor	9
	Sociology Elective/Minor	9			
- TOTAL :		15	TOTAL :		12

#### Symbol Guide

*Writing Intensive Gen Ed. Hours:	#Field Experience Education Hours:	+Online Course Total Hours:	\$Hybrid Course	&8-week Course
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**BA in Sociology Pathway  
Academic Map (Fall Admission)**

<b>Semester 1</b>		<b>Hr s.</b>	<b>Semester 2</b>		<b>Hrs .</b>
GE 101	University Seminar	1	ENG 102	Comp/Rhet. II	
LS 101	Information Literacy	1	HIS/PS C	HIS 205/206 Am. Hist. I/II PSC 203 Am. Nat'l Gov't	3
PED 111	Pers. & Comm. Health	2	ENG 102	Comp/Rhet. II	3
ENG 101	Comp/Rhet. I	3	AAS/ART/ MUS/SPT	AAS 200; ART 100,330,331; MUS 200, 205; SPT 209	3
PSY 101	General Psychology	3	MAT 111	Intermediate Algebra	3
HIS 101/102	World Civilizations I/II	3	SPT 206	Fundamentals of Speech	3
SA 201	Introduction to Sociology	3	PED 1XX	Activity	
- TOTAL :		<b>16</b>	TOTAL :		<b>15</b>

<b>Semester 3</b>		<b>Hr s.</b>	<b>Semester 4</b>		<b>Hrs .</b>
SOC 301	The Family	3	CD	International Cultural Diversity	3
SCIEN CE/LA B	Biology, Chemistry, Physics, Environ. Science, Experimental Psychology with Lab	4	CD	U.S. Cultural Diversity	3
MAT 117	Elementary Statistics	3	SCIEN CE	Science	3
AAS/ART/ MUS/SPT	AAS 200; ART 100,330,331; MUS 200, 205; SPT 209	3	CS 103/105	Intro to MS Office/Bus. Apps. For Microcomputer	3
SOC 303	Social Problems	3	SOC 302/306	Minority Relations/ Sociology of Black	3

				Americans	
- TOTAL :		16	TOTAL :		15

Semester 5		Hr s.	Semester 6		Hrs .
SS 451	Data Collection	3	ANT	Anthropology 310-498	3
SOC/SS OC	SOC 401,402,403,404,405, 406, 409,412, 490- 492, 495-498, SSOC 499.	9	SS 452	Data Analysis	3
	Elective/Minor	3	SOC/SS OC	SOC 401,402,403,404,405, 406, 409,412, 490- 492, 495-498, SSOC 499 or Minor	9
- TOTAL :		15	TOTAL :		15

Semester 7		Hr s.	Semester 8		Hrs .
SOC 415	Classical Theory	3	SOC 453	Contemporary Theory	3
SOC 454	Seminar in Sociology	3		Sociology Elective/Minor	9
	Sociology Elective/Minor	9			
- TOTAL :		15	TOTAL :		12

**Note: 12 hours of foreign language required.**

Symbol Guide

*Writing Intensive Gen Ed. Hours:	#Field Experience Education Hours:	+Online Course Total Hours:	\$Hybrid Course	&8-week Course
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# SOCIAL WORK

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## Department of Social and Behavioral Sciences

Associate Professor: Word  
Assistant Professor: Saltzman

### Mission

The mission of the Social Work Program is to prepare competent undergraduate generalist social workers to address oppression, injustices and social equity for purposes of improving the human condition. Grounded in liberal arts and knowledge based on scientific inquiry, the program integrates core competencies, practice behaviors and values designed for an applied learning experience to a diverse and global population within a nurturing, student-centered environment.

### Degree Offered

Bachelor of Science with a major in Social Work

### Programs Goals

The program goals are designed to:

- Prepare students to engage in generalist social work practice with diverse populations.
- Prepare students to use an integrative practice framework while emphasizing ethics, informed research and practice.
- Prepare students for continuing formal education in either graduate social work education or other graduate disciplines.

### Objectives

The core program objectives are competency-based performance designed to integrate practice behaviors with the primary purpose of preparing its graduates for generalist practice by demonstrating the achievement of core competencies. It is expected that students completing this degree will practice in a professional manner consistent with social work traditions, values and ethics as expressed in the National Association of Social Work (NASW) Code of Ethics and the Council on Social Work Accreditation Standards. Specifically, students will be able to:

1. identify as a professional social worker and conduct oneself accordingly
2. apply social work ethical principles to guide professional practice
3. apply critical thinking to inform and communicate professional judgments
4. engage diversity and difference in practice
5. advance human rights and social and economic justice
6. engage in research-informed practice and practice-informed research
7. apply knowledge of human behavior and the social environment
8. engage in policy practice to advance social and economic well-being and to deliver effective social work services
9. respond to contexts that shape practice
10. engage, assess, intervene, and evaluate with individuals, families, groups, organizations, and communities

## **Assessment Program**

Assessment measures allow students and faculty to determine the degree of success in meeting program goals, objectives and practice behaviors. The program uses both formative and summative assessment tools, e.g. self assessment surveys, field education evaluations, classroom assignment rubrics, examinations and student portfolios, to measure practice behaviors acquired. Currently, all students take the ACAT major field test for social workers.

## **Admission Criteria**

Admission to the BSSW Professional Program is by application and is determined by the following:

1. Compliance with Lincoln University's standards for undergraduate admission
2. Maintenance of a GPA 2.0 or better for all college course work
3. Completion of 42 hours of General Education requirements
4. Submission of an application, two letters of reference and personal statement for acceptance into the Social Work Program

Students may obtain the admissions application from the Department of Social and Behavioral Sciences, 310 Founders Hall and submit the completed packet by March 15 and October 15 of each academic year.

Students are provided written notification of acceptance or rejection into the professional social work program.

## **Admission as a Transfer Student**

Transfer credits from other colleges and universities will be evaluated on an individual basis for equivalency to current program requirements. The social work program will only accept courses of the major with a grade of "C" or better from an accredited (CSWE) program of the previous institution enrolled.

The Social Work Program does not grant social work course credit for life experience or previous work experiences at the BSSW level. This policy is in compliance with the accreditation standards set forth by the Council on Social Work Education.

## **Computer Skills Requirement**

Students will have the opportunity to learn computer applications and its uses in the social sciences by taking SS 452-Data Analysis, which is required of all majors. Social work majors will have gained proficiencies in the use of the microcomputer as a tool for the following: learning through computer assisted instruction, writing with word processing and grammar checking software, e-mail communication, data analysis and presentations, information retrieval from on-line databases, various data analysis software programs and the use of Internet.

## **Program Requirements**

Social Work students must meet the Lincoln University requirements for graduation as outlined in the *Undergraduate Bulletin*. Students must also complete the University's general education requirements for the bachelor's degree.

The BSSW completion requires 121 credit hours, including 42 credit hours for the major. Elective hours can be used to meet the total number of hours required for the degree and/or the 40 credit hours-upper division course requirements.

### **Field Practicum Experience**

The field practicum experience is an important component of teaching and learning the necessary skills, knowledge and values needed to perform professional social work and it is required of all social work majors. It provides the opportunity for students to engage in the integration of theoretical knowledge with practice. Students must complete 400 clock hours or 25 hours per week for 16 weeks in their designated approved blocked field practicum appointment. To be eligible for field experience students must complete the following core courses in social work with a grade of “C” or better: SW 401, SW 402, SW 404, SW 405, and SW 406. In addition students must attend a two hour field orientation before field practicum appointments are made.

### **Required Courses**

**Major:** B.S. in Social Work

The major requires a minimum of 42 credit hours of core courses with a grade of “C” or better in the following: SW 201, SW 301, SW 400, SW 401, SW 402, SW 404, SW 405, SW 406, SW 407, SW 493, SW 495, SW 499, SW 499L and SS 452. In addition students must take 9 credit hours of the following: S/A 201, MAT 117 and SOC 301. Students may choose additional electives.

**Minor:** Social Work: Students who minor in Social Work must complete 18 credit hours with a grade of “C” or better in the following: SW 201, 301, 401, 402, 404, and 405. Additional social work courses recommended for free electives and/or a Minor of 18 credit hours may be selected from the areas of Sociology, Anthropology, Psychology or Criminal Justice.

Students who minor in social work and desire to continue graduate education in social work at the University of Missouri if otherwise qualified for admission, (through its special MSW articulation agreement with Lincoln) may receive 9 credits with the successful completion of a grade of “B” or better in SW 301, SW 404, & SW 405. Lincoln students who are admitted to the MSW program will receive a waiver of each of the three courses in which they meet the grade standards and will be eligible for the MU MSW degree of between fifty-one (51) and fifty-seven (57) credit hours.

Students who successfully complete the BSSW degree at Lincoln University are likely eligible for advanced standing status in other Council on Social Work Education (CSWE) accredited social work programs. Students should consult with the Masters in Social Work program of their choice to better understand their program requirements.

### **Course Descriptions**

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

### **Group I: Social Work Service**

- SW 201 INTRODUCTION TO SOCIAL WORK.** (3). A survey course using a social problems approach, studies the field of social welfare and social work. Development of social welfare, social work, social services, and methods of intervention reviewed.
- SW 301 SOCIAL WELFARE POLICIES.** (3, sp). Historical and contemporary analysis of social policies at federal, state, local , legislative, administrative, and interagency levels. Intended and unintended consequences of social policies are discussed. This course prepares students with beginning competency in social policy analysis and its impact on client systems. This course is designated writing intensive.

### **Group II: Social Work: Other**

Prerequisite: SW 201.

- SW400 MULTICULTURAL SOCIAL WORK.** (3, fa, even). An analysis of the use of empowerment and strengths perspective theories used to aid oppressed, diverse, and vulnerable populations defined by gender, sexual orientation, ethnicity, physical and mental ability, religion, and other socio-demographic factors. Emphasis is placed on developing culturally competent skills for beginning social work practitioners with local and global diverse groups of people.
- SW 401 GENERALIST SOCIAL WORK PRACTICE.** (3, fa, odd). A foundation course that prepares students in the development of interaction skills basic to generalist social work practice. Special consideration is given to working with diverse populations.
- SW 402 SOCIAL GROUP WORK.** (3, fa, even). Social work laboratory experience designed to develop leadership skills and methods of intervention appropriate for a variety of groups in social work settings.
- SW 403 SOCIAL WORK WITH THE AGED.** (3, sp, even). Emphasis on selected preventive and treatment interventions into those biophysiological, psychological, and social themes and issues that place aging populations "at risk."
- SW 404 HUMAN BEHAVIOR IN THE SOCIAL ENVIRONMENT.** (3, sp, odd). A comprehensive approach for assessing social functioning. Explores theories and concepts about human development over the lifespan.
- SW 405 SOCIAL WORK RESEARCH METHODS.** (3, fa, even). Scientific approach to building knowledge for practice and for evaluating service delivery in areas of social work practice. Ethical standards, qualitative, quantitative research methodologies relevant to the practice of social work is required. This is a writing intensive course.
- SW 406 GENERALIST PRACTICE WITH COMMUNITIES AND ORGANIZATIONS.** (3 Sp, odd). A methods course that focuses on the development of "macro" generalist practice skills in community organizations. Special attention is given to advocacy with economically disadvantaged and historically disempowered communities.

- SW 407 SOCIAL JUSTICE AND ETHICS.** (3, fa). A macro level course that focuses on ethics and issues of diversity, oppression, and social justice. Utilizing systems and ecological perspectives, students gain an in-depth understanding of the political and social reality of populations-at-risk.
- SW 490-492 DIRECTED STUDY.** (1-3). Independent research. Prerequisite: Consent of instructor and department.
- SW 493 INTEGRATIVE SENIOR SEMINAR.** (3). A capstone course that assesses the student's professional development and integrates an evaluation of theory, knowledge over the total learning experiences. Social work competencies and practice behaviors are examined. Prerequisite: Senior status and successful completion of all required social work courses. To be taken concurrently with SW 499.
- SW 495-498 SPECIAL SUBJECTS.** (1-3). Topic to be listed in course schedule. May enroll again as topic changes. Prerequisite: See course schedule.
- SW 499 FIELD PRACTICUM EXPERIENCE.** (6). A supervised field practicum experience, in an approved social work agency for purposes of gaining competencies in the application of theory and skills acquired through the classroom experience. Students will complete 400 hours over a period of 4 days per week (or 16weeks) during the spring semester. Consent of instructor required and senior status.
- SW 499L FIELD PRACTICUM SEMINAR** (3). Seminar integrates theory and knowledge with the student's experiences in field practicum. Interactional skills, assessment and other practiced skills emphasized.  
**Consent of instructor required, senior status and currently enrolled in a field practicum experience.**



**BS in Social Work Pathway  
Academic Map (Fall Admission)**

<b>Semester 1</b>		<b>Hr s.</b>	<b>Semester 2</b>		<b>Hrs .</b>
GE 101	University Seminar	1	AAS/ART/ MUS/SPT	AAS 200; ART 100,330,331; MUS 200,205; SPT 209	3
LS 101	Information Literacy	1	MAT 111	Intermediate Algebra	3
PED 111	Pers. & Comm. Health	2	ENG 102	Comp/Rhet. II	3
ENG 101	Comp/Rhet. I	3	HIS/PS C	HIS 205/206 Am. Hist. I/II PSC 203 Am. Nat'l Gov't	3
HIS 101/102	World Civilization I/II	3	SW 201	Introduction to Social Work	3
SA 201	Introduction to Sociology	3	PED 1XX	Activity	1
PSY 101	General Psychology	3			
- TOTAL :		<b>16</b>	TOTAL :		<b>16</b>

<b>Semester 3</b>		<b>Hr s.</b>	<b>Semester 4</b>		<b>Hrs .</b>
SPT 206	Fundamentals of Speech	3	CD	Int. Cultural Div./Anthropology	3
BIO 103/104 L	Principles of Biology/Lab	4	CD	U.S. Cultural Diversity	3
MAT 117	Elementary Statistics	3	SCIEN CE	Biology, Chemistry, Physics, Environ. Sci., Exp. Psych	3
AAS/ART/MUS/SPT	AAS 200; ART 100,330,331; MUS 200,205; SPT 209	3	CS 103/105	Intro MS Office/Bus. Apps. Micro Computer	3
SOC 301	The Family	3	SW 301	Social Welfare Policies	3
-		<b>16</b>	TOTAL		<b>15</b>

TOTAL :			:		
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Semester 5		Hr s.	Semester 6		Hrs .
SW 401	Gen. SW Practice	3	SW 402	Social Group Work	3
SW 405	SW Research Methods	3	SS 452	Data Analysis	3
SW 400	Multicultural Social Work	3	SW/SO C/PSY	SW 201,301,401,402,404, 405; SOC 401, 402, 403, 404, 405, 406,409; PSY 303, 308, 404, 404, 406, 410	3
SOC 303	Social Problems	3	SW 404	Hum. Behav. In Soc. Environ.	3
	Elective/Minor	3	SW 406	Gen. Prac. With Communities	3
- TOTAL :		15	TOTAL :		15

Semester 7		Hr s.	Semester 8		Hrs .
SW 407	Social Justice and Ethics	3	SW 499	Field Practicum Experience	6
SW	Electives	12	SW 499L	Field Practicum Seminar	3
			SW 493	Integrative Senior Seminar	3
- TOTAL :		15	TOTAL :		12

#### Symbol Guide

*Writing Intensive Gen Ed. Hours:	#Field Experience Education Hours:	+Online Course Total Hours:	\$Hybrid Course	&8-week Course
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# ART

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## Department of Visual and Performing Arts

Assistant Professors: Crow, Nyaberi, Rivera

Instructor: Garner

### 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

### Assessment Program

Assessment measures allow students and faculty to determine whether students have met the objectives of the program. The art faculty has spread its assessment measures throughout the degree programs so that students can receive on-going reports of their progress and follow-up advice. The portfolio and Senior Show are the ultimate measures of the student's and the program's success. These are evidence of a collection of four or more years of work, and not a final project. Art Education majors will also take the PRAXIS II exam.

## Required Courses

**Major:** B.S. in Art

A minimum grade of "C" in ART 104, 107, 108, 207, 208, 301, 307, 308, 309, 310, 322, 323, 330, 331, 421, 422 and 423.

**Major:** B.S. in Art Education

A minimum grade of "C" in ART 104, 107, 108, 203, 206, 207, 208, 307, 308, 310, 322, 323, 330, 421, 422, and 423.

**Minor:** A minimum grade of "C" in ART 104, 107, 108, 307, 308, 322 and 330. A teaching minor in Art must also include ART 203 (3 credit hours).

## Regulations

1. No art major or art minor will be permitted to enroll in any art course for which he/she has not met the prerequisites.
2. Special students may enroll in advanced art courses with the consent of the Art faculty, provided they can show evidence of having developed basic skills in art.
3. At the discretion of the teacher in charge, projects done by students in art classes may be retained for display purposes until after the Annual Student Art Exhibit in the spring semester.
4. All work entered in the Annual Student Art Exhibit must have been done under the supervision of the Art Unit faculty.
5. All art majors are required, without exception, to present a Senior Art Exhibit (of at least 20 works) as partial fulfillment of the requirements for the B.S. degrees in Art. A portfolio review must be satisfactorily completed at least thirty days prior to the scheduled opening of the exhibit.
6. One re-enrollment for additional credit is permitted in designated studio courses in which the student has received a grade of "C" or better, and for which the student has permission of the instructor and department head.
7. Students will be required to provide basic art materials for studio courses.

## Computer Skills Requirement

Upon completion of the Art and/or Art Education programs at Lincoln University, the student will have gained a basic understanding of the Macintosh computer and also be able to demonstrate basic competency in the use of various software programs including drawing, page layout, and photo editing.

Students will have the opportunity to gain the necessary computer knowledge and skills through participation in department sponsored/presented workshops and successful completion of the departmental computer intensive course ART 207 (and other computer intensive courses, as designated). Students will also have opportunities to develop computer skills in other art courses which require some use of the computer.

## 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). 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 108 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 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 203 ELEMENTARY ART EDUCATION** (2, fa, sp) or **ELEMENTARY ART EDUCATION AND OBSERVATIONS.** (3, fa, sp). 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 108.
- ART 301\* FIGURE DRAWING.** (3, LF). A course in drawing the human figure from life. Five hours per week. Prerequisite: ART 108.
- ART 303 GRAPHIC DESIGN II.** (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 308 CERAMICS I.** (3, 3rd semester, LF). An introductory course in ceramics. Five hours per week.
- ART 309\* CERAMICS II.** (3, 3rd semester, LF). An advanced course in ceramics stressing the potter's wheel. Five hours per week. Prerequisite: ART 308.
- ART 310\* PRINTMAKING.** (3, LF). An introductory course involving various printmaking processes. Five hours per week. Prerequisites: ART 104 and 108.
- ART 322 PAINTING I.** (3, fa, LF). A basic course in painting. Five hours per week. Prerequisites: ART 104 and 108.

- ART 323\*** **PAINTING II.** (3, sp, LF). An advanced course in painting. Five hours per week. Prerequisite: ART 322.
- ART 330** **HISTORY AND APPRECIATION OF ART.** (3, sp). A survey course covering prehistoric art through the Renaissance movement. This course is designated writing intensive. (Satisfies a humanities requirement of general education.)
- ART 331** **TWENTIETH CENTURY ART.** (3, fa). A survey course covering the major art movements dating from the 14th century through the 20th century. (Satisfies a humanities requirement of general education.)
- ART 401** **GRAPHIC DESIGN III.** (3, fa). 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, LF). An advanced course in painting from the live model. Five hours per week. Prerequisites: ART 301 and 323.
- ART 422\*** **SCULPTURE.** (3, 3rd semester, LF). A basic course in sculpture. Five hours per week. Prerequisites: ART 104 and 108.
- 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 498I\*** **ART INTERNSHIP.** (3). 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

**B.S. in Art  
Academic Pathway**

<b>Semester 1</b>		<b>Hr s.</b>	<b>Semester 2</b>		<b>Hrs .</b>
GE 101	University Seminar	1	ENG 102	Comp. & Rhet II	3
MAT 115	or General Ed. Math	3	ART 108	Drawing II	3
PED 111	Pers. & Comm Health	2	ART 104	Theory of Design & Color	3
ART 107	Drawing I	3	ENV 103	Intro to Environmental Science	3
PSY 101	Gen Psychology	3	ENV 104L	Lab	1
ENG 101	Comp. & Rhet I	3	MUS 205	Music of Black Americans	3
<b>TOTAL :</b>		<b>15</b>	<b>TOTAL :</b>		<b>16</b>

<b>Semester 3</b>		<b>Hr s.</b>	<b>Semester 4</b>		<b>Hrs .</b>
ART 207	Basic Commercial Design	3	SPT 209 or MUS 200	Intro to Theatre or World of Music	3
SA 202 or SA 201	Intro to Sociology or Intro to Anthropology	3	PSC 203	American National Government	3
SPT 206	Fund of Speech	3	ART 208	Watercolor	3
BIO 103 or PHY 103	Principles of Biology or Earth Science	3	ART 323	Painting II	3
ART 322	Painting I	3	ART 308	Ceramics I	3
<b>- TOTAL :</b>		<b>15</b>	<b>TOTAL :</b>		<b>15</b>

Semester 5		Hr s.	Semester 6		Hrs .
HIS 101	World Civ I	3	ART 309	Ceramics II	3
ART 301	Figure Drawing	3	ART 310	Printmaking	3
ART 307	Jewelry	3	Minor or	Elective	3
ART 330	History & Art Appreciation of Art	3	ART 331	Twentieth Century Art	3
Upper	Division Elec. Or Minor	3	ART 422	Sculpture	3
PED	Activity	1			
- TOTAL :		16	TOTAL :		15

Semester 7		Hr s.	Semester 8		Hrs .
ART 423	Adv. Tech Problems	3	ART 422	Sculpture	3
ART 421	Figure Painting	3	Minor	(Upper Division)	9
ART 205 or Cultural Div	African American Art History or Cultural Diversity	3	ART Elective		3
	Minor or Electives	6			
- TOTAL :		15	TOTAL :		15



# MUSIC

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## Department of Visual and Performing Arts

### Member of the National Association of Schools of Music

Professor: Gray

Associate Professors: Johnson, Zambito

Assistant Professors: Gamblin-Green, Harper, Waugh

Instructor: Wood

### Mission

In the music unit, the purpose is to educate students to become musically literate citizens and to encourage them to become contributing musical leaders within society. The music faculty provides excellent academic instruction and broad ranges of performance experiences within a nurturing environment.

The music unit at Lincoln University serves students in several ways. Music majors prepare for careers in Music Education, or obtain a liberal arts degree in Sacred Music. Music minors complete a smaller core of academic, ensemble and applied music courses, which enhance their liberal arts education. The student population at large may take music courses as part of their general education requirements, participate in ensembles, and take applied lessons.

The music program strives to enhance the lives of Lincoln University's student population and the general population of Jefferson City by presenting student and faculty 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.

### Degrees Offered

Bachelor of Music Education with emphasis in Instrumental or Vocal Music. This degree leads to a Missouri Department of Elementary and Secondary Education Missouri Certification in Music (K-12). Bachelor of Science in Music with emphasis in Sacred Music-Instrumental or Sacred Music-Vocal.

### Objectives

Upon completion of the Music Education or Sacred Music program at Lincoln University, each student should be able to demonstrate the following:

1. The ability to function as a musically literate citizen within the society
2. Knowledge of the elementary concepts and skills necessary to be a competent and effective instrumental or vocal church musician
3. The ability to interpret, create, analyze, and evaluate music
4. A repertory reflecting a variety of cultures and historical periods
5. Technical skills that are adequate to meet the needs of artistic self-expression
6. Knowledge of historical and stylistic periods of music history
7. The ability to form and defend evaluative judgments
8. An understanding of the historical, philosophical and social foundations of music
9. The ability to perform successfully at the graduate level

10. The ability to perform academically at or above the level of students completing requirements of other NASM accredited schools

### **Assessment Program**

Assessment measures allow students and faculty to determine whether students have met the objectives of the program. The Music faculty has spread its assessment measures throughout the degree program so that students can receive on-going reports of their progress and follow-up advice. The education-based assessment tool for the Music Education student will be the PRAXIS II exam. The music-based assessment measure for the Music Education student will be the Senior Recital. The assessment measures for the Sacred Music student include the church internship and the music portfolio. Skills developed and demonstrated in Music Seminar provide on-going assessment

### **Admission to the Music Program**

In addition to the general requirements for admission to the University, the entering student must meet the following requirements of the Music Unit

1. Complete an audition in a major performing medium
2. Take a theory test (aural and written) to determine placement in the theory classes
3. Perform on the piano to determine level of piano instruction

NOTE: Students showing deficiencies in performance or in theory will be assigned to appropriate remedial courses without degree credit. Such an assignment places them in a probationary status.

Advanced standing in music may be obtained after an evaluation of the student's official transcript resulting from work done at a similar institution and/or by examination (in music theory).

Students (other than music majors) may elect to minor in music or to enroll in music courses of their choice provided they can meet the course prerequisites where applicable.

Special students (those wishing to study music, but not pursuing any type of degree program) are welcome to enroll in music courses as staffing and facilities permit. Permission of the instructor and the department head is required.

### **Required Courses**

- Major:** Bachelor of Music Education (Instrumental-Keyboards)  
A minimum grade of "C" in the following courses: MUS 101, 102, 109, 110, 119P\*\*\*, 120P\*\*\*, 120\*\*, 121P\*\*\*, 122P\*\*\*, 139, 149, 159, 169, 179, 198\*, 198L\*, 201, 202, 209, 215, 299\*, 303, 304, 306, 309, 313, 314, 382, 398\*\*\*\*, 398L\*\*\*\*, 401, 403, 499\*.
- Major:** Bachelor of Music Education (Vocal-Keyboards)  
A minimum grade of "C" in the following courses: MUS 101, 102, 109\*\*, 110\*\*, 119P\*\*\*, 120P\*\*\*, 120\*\*, 121P\*\*\*, 122P\*\*\*, 179, 180, 198\*, 198L\*, 201, 202, 209, 215, 299\*, 303, 304, 310, 313, 314, 318, 326, 382, 398\*\*\*\*, 398L\*\*\*\*, 401, 403, 499\*.
- Major:** Bachelor of Science in Music (Sacred Music/Instrumental-Keyboards)  
A minimum grade of "C" in the following courses: MUS 101, 102, 109, 110, 119P\*\*\*, 120P\*\*\*, 122P\*\*\*, 120\*\*, 198\*, 198L\*, 201, 202, 209, 299#, 309, 311, 313, 314, 398T, 404.
- Major:** Bachelor of Science in Music (Sacred Music/Vocal-Keyboards)

A minimum grade of "C" in the following courses: MUS 101, 102, 109\*\*, 110\*\*, 119P\*\*\*, 120P\*\*\*, 120\*\*, 198\*, 198L\*, 201, 202, 209, 299#, 310, 313, 314, 322, 398T, 404.

\* To be taken for 3 semesters.

\*\* Keyboard majors only.

\*\*\* Vocal and instrumental majors only.

# For specific requirements, see Regulation 3.

**Minor:** A minimum grade of "C" in the following courses: MUS 101, 102, four hours of secondary applied to include MUS 119P and MUS 120P, 2 hours of MUS 299, MUS 313 or MUS 314, 2 hours of MUS 499, 1 hour elective upper division credit.

Students seeking a B.S.Ed. degree, which requires 21 hours, will need to add 3 additional elective hours.

## Regulations

1. Any student enrolled in a remedial music course, based on placement examination or audition results, will be given one year to qualify for full admission to the Music Unit. Should the student not meet this requirement, he/she will be advised to seek another major.
2. Four credit hours of secondary piano (MUS 119P-MUS 122P) are required of all music majors except those declaring keyboard as their primary applied instrument. Persons declaring keyboard as their major applied instrument must take four hours of a secondary applied instrument, in voice or in a B&O instrument, depending on their program emphasis. The secondary piano requirement culminates in a Piano Proficiency Examination required of all music majors.
3. **Music Education** students must enroll for credit in a *major* ensemble (most closely related to their primary performing medium) during each semester that they are full-time students in the music unit. However, enrollment in a *major* ensemble is *not* required during the student teaching semester (EDU 471-477). The minimum number of *major* ensemble hours is *seven*, four hours of which are for lower division credit (MUS 299B, C) and three hours for upper division credit (MUS 499B, C). **Sacred music majors** must enroll for credit in choir for two semesters. They then may enroll in choir, band, or vocal ensemble for their remaining two semesters of ensemble credit.
4. All students enrolled in primary applied music courses must be simultaneously enrolled in MUS 198L or 398L, depending upon their classification; and, must perform in recital/seminar at least twice a semester on his/her major instrument.
5. Music majors enrolled in 198L and 398L are expected to attend all seminars, recitals and other performances of the music unit. They are also expected to attend a minimum of two other music events each semester. Music faculty will monitor recital attendance.
6. Students in the Bachelor of Music Education program are required, without exception, to present a Senior Recital (of at least a half hour in duration) as a partial fulfillment of the requirements for the degree. This recital may take place during the third semester of enrollment in MUS 398. Students desiring to delay their recital beyond the third semester should enroll in a commensurate level of Secondary Applied Music as a means of continuing private study prior to the recital semester. In all cases a Recital Hearing must be satisfactorily completed at least thirty days prior to the scheduled date of the recital.

7. Sacred music majors are encouraged to take MUS 200 World of Music, MUS 205 Music of Black Americans, or SPT 209 Intro. to Theatre as part B of their general education humanities coursework. Sacred music majors are encouraged to take PHI 201 Major Religions of the World as their general education international cultural diversity course.
8. Sacred music majors must take care in selecting their general studies and music performance electives. Because Lincoln University requires 40 hours of upper division credit for graduation, 26 hours of their electives must be upper division.
9. All music education majors must satisfactorily complete the piano proficiency and all required music courses before doing student teaching.
10. Students majoring in music must take the Piano Proficiency Examination by their fourth semester of piano study. The examination consists of five areas:
  - a. Performance of patriotic song;
  - b. Sight reading;
  - c. Score reading;
  - d. Scales and cadential formulas;
  - e. Harmonization of melodies with block chords;
  - f. Repertoire.

Students must successfully complete all areas of the examination prior to receiving approval. Should a student not pass all areas of the examination, he/she will be encouraged to continue enrollment in piano instruction. A retest will be given in those areas in which the student did not perform satisfactorily.

Any student who passes the Piano Proficiency Examination prior to the completion of four semesters of piano study may elect to continue enrollment in piano or to take another music course(s) in lieu of the remaining hours.

### **Computer Skills Requirement**

Upon completion of the Music Education or Sacred Music programs at Lincoln University, the student will have gained a basic understanding of the computer, MIDI, CD ROM, and various music software programs.

Students will have the opportunity to gain the necessary computer knowledge and skills through participation in department sponsored/presented workshops and successful completion of computer intensive courses including MUS 101, 102, 201, 202, 306, and 401 (and other computer intensive courses, as designated). Students will also have opportunities to develop computer skills in other music courses which require some use of the computer.

### **Course Descriptions**

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

**MUS 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.

- MUS 460 MUSIC PERFORMANCE WORKSHOP.** (1-3, su). A directed experience involving performance and analytical activities. Emphasis on research (investigation of performance practices, available literature, etc.) and a culminating performance activity.
- MUS 475 SPECIAL TOPICS IN MUSIC AND MUSIC EDUCATION.** (1-5, su). Selected topics dealing with special subjects of professional interest (current practices, problems and developmental issues).
- MUS 498I MUSIC INTERNSHIP.** (2). Allows the student the opportunity to work and observe the principles and practices employed by successful musicians in business and the professional world.

### **History and Music Literature**

- MUS 200 THE WORLD OF MUSIC.** (3). 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 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. (Satisfies a humanities requirement of general education.)
- MUS 311 SACRED MUSIC.** (2). A study of the history of keyboard, anthem, solo, cantata, oratorio, psalmody, and hymn literature. The course also offers the evaluation of anthem literature, including contemporary anthems for the worship service.
- MUS 313/ 314 MUSIC HISTORY AND LITERATURE I-II.** (3 each). A critical and analytical study of music from all eras and periods. This course is designated writing intensive.

### **Sacred Music**

- MUS 398T SERVICE PLAYING/IMPROVISATION.** (2). An introduction to prelude and offertory style music, and to hymn playing and improvisation. A continuation of vocal score reading techniques.
- MUS 404 CHURCH INTERNSHIP.** (2). This is an assessment measure for Sacred Music Majors. Students will work in a supervised sacred music experience, experiencing in a practical way the theoretical concepts learned in previous sacred music courses.

### **Music Theory**

- MUS 100 INTRODUCTION TO MUSIC THEORY.** (2). An elementary course in the theory of music including the fundamentals.
- MUS 101/ MUSIC THEORY I AND II.** (3 each). Elementary and basic musician-

- 102** ship including notation and terminology; scales; intervals; chord structures; melodic and harmonic writing; sight singing and ear training; elements of musical form. A theory assessment test will be given early in the term.
- MUS 201/202** **MUSIC THEORY III AND IV.** (3 each). Study of advanced harmony; keyboard; dictation; analysis; ear training; vocal activity; and original and creative writing. MUS 101 through 202 are to be taken sequentially.
- MUS 401** **FORM AND ANALYSIS.** (2). Study of formal design and methods of structural treatment in monophonic, homophonic and polyphonic compositions. Prerequisite: MUS 202.

### **Music Education**

Majors may elect concentrations in instrumental music teaching and supervision or vocal music teaching and supervision.

- MUS 109** **VOICE CLASS.** (1). Fundamentals of voice production and the singing of songs with English texts.
- MUS 110** **VOICE CLASS.** (1). The continuation of the fundamentals of singing with increased repertoire. Prerequisite: MUS 109.
- MUS 139** **WOODWIND CLASS.** (1). Introduction to the basic techniques and materials used in woodwind playing. Prerequisite: Music reading ability.
- MUS 149** **BRASSWIND CLASS.** (1). Introduction to the basic techniques and materials used in brasswind playing. Prerequisite: Music reading ability.
- MUS 159** **STRING CLASS.** (1). Introduction to the basic techniques and materials used in orchestral string playing. Prerequisite: Music reading ability.
- MUS 169** **PERCUSSION CLASS.** (1). Introduction to the basic techniques and materials used in playing percussion instruments. Prerequisite: Music reading ability.
- MUS 179** **GUITAR CLASS.** (1). Introduction to the basic techniques and materials used in playing the guitar. Emphasis on strumming, reading and transposition. Prerequisite: Music reading ability.
- MUS 180** **SURVEY OF INSTRUMENTS.** (1). Survey of band and orchestral instruments. Designed for vocal music education majors. Prerequisite: Music reading ability.
- MUS 203** **FUNDAMENTALS OF MUSIC.** (2). A course for elementary education students presenting the rudiments of music, elementary ear training, tonal and rhythmic problems and terminology.
- MUS 209** **BASIC CONDUCTING AND SCORE READING.** (2). A basic course in conducting and score reading which introduces and develops conducting patterns and mastery level score reading skills. Designed for music education majors. Prerequisite: MUS 102.
- MUS 215** **OBSERVATIONS AND PRINCIPLES OF MUSIC EDUCATION.** (2). Introduction to the field of instrumental and vocal music education. Emphasis on principles, curricular concepts, organization, practices, and preparation for teacher certification. Sixteen hours of supervised observation in school settings and peer teaching are required. Co-requisite: Should be taken concurrently with EDU 204 and SE 221.
- MUS 300** **LYRIC DICTION I.** (3). To teach Music Education Majors and Sacred Music Majors the correct diction in Latin, Italian and English. No Prerequisite.

- MUS 303 MUSIC EDUCATION II.** (2). Music activities and peer teaching in the kindergarten and elementary school through grade six. School visitation included. Prerequisites: MUS 202, MUS 215, EDU 204 and admission to Teacher Education Program.
- MUS 304 MUSIC EDUCATION III.** (2). Instruction, music activities and peer teaching in the junior and senior high school. School visitation included. Prerequisites: MUS 202, MUS 215, EDU 204 and admission to Teacher Education Program.
- MUS 306 INSTRUMENTATION.** (2). A course in orchestration with attention to scoring for orchestras, bands and varied ensembles. Prerequisite: MUS 202.
- MUS 309 INSTRUMENTAL CONDUCTING.** (2). Conducting; techniques of the baton; transposition; reading and memorization of the score; special problems of school and special ensembles. Prerequisite: MUS 202.
- MUS 310 CHORAL CONDUCTING.** (2). Choral conducting designed to acquaint the student with the techniques, skills and accepted practices used in directing choirs and other vocal groups. Prerequisite: MUS 202.
- MUS 315 MUSIC DICTION II.** (3). To prepare Music Education Majors and Sacred Music Majors in the correct vocal production and diction of Spanish, German and French, in their own singing and conducting. Prerequisite: Lyric Diction I or permission of instructor.
- MUS 316 CHORAL LITERATURE.** (2). One semester course designed to survey choral music literature from a) the perspective of historically significant masterworks and b) the utilitarian perspective of appropriateness for particular types of ensembles. Skills of audition will be developed through guided practice in listening and score study.
- MUS 318 CHORAL TECHNIQUES.** (2). This is a one semester course designed to survey choral techniques by conducting rehearsals, making presentations and observing peers and other teachers in their rehearsals and performances.
- MUS 326 CHORAL ARRANGING.** (2). Techniques in scoring and arranging for choral ensembles. Prerequisite: MUS 202.
- MUS 403 PRACTICAL EXPERIENCES IN MUSIC EDUCATION.** (2). An investigation of teaching methods and materials and their various phases of existing school music programs. Forty hours of supervised work required in actual school settings. Prerequisites: MUS 303, 304 and admission to Teacher Education Program.

### **Primary Applied Music**

#### **Lower Level (Freshmen and Sophomores)**

- MUS 198K/  
198V/198I** **KEYBOARD, VOICE OR B&O INSTRUMENTS.** (2 each, LF). Must be taken four consecutive semesters by music majors in their primary instrument.

#### **Upper Level (Juniors and Seniors)**

- MUS 398K/  
398V/398I** **KEYBOARD, VOICE OR B&O INSTRUMENTS.** (2 each, MF, LF). Must be taken three consecutive semesters by music majors in their primary instrument.

NOTE: Enrollment in 398 (K-V-I) must culminate in senior recital during or before third semester.

## Secondary Applied Music

- MUS 120KVI 382KVI** **SECONDARY APPLIED MUSIC.** (1-2 each, LF). For music majors studying a secondary instrument and for non-majors desiring to study privately. May be elected for four semesters each. Piano majors must complete 4 hours of secondary applied music.
- MUS 119P** **CLASS PIANO I.** (1, LF). Group instruction for piano students with little or no performance skills. Two class meetings per week. Prerequisite: Music reading ability.
- MUS 120P** **CLASS PIANO II.** (1, LF). Group piano instruction for students who have taken Class Piano I and/or who have limited keyboard skills. Two class meetings per week. Prerequisite: MUS 119CP or piano placement audition.
- MUS 121P** **CLASS PIANO III.** (1, LF). Group piano instruction for students who have taken Class Piano II and are working towards completion of piano proficiency. Two class meetings per week. Prerequisite: MUS 120CP or piano placement audition.
- MUS 122P** **CLASS PIANO IV.** (1, LF). Group piano instruction for students who have taken Class Piano III and are working towards completion of piano proficiency. Two class meetings per week. Prerequisite: MUS 121CP or piano placement audition.
- MUS 189P** **RECREATIONAL PIANO.** (1, LF). Group piano instruction for non-music majors who have limited or no keyboard experience. Includes introduction of music reading skills. Two class meetings per week.

## Studio Class and Recital Seminars

Studio Class and Recital Seminars are required activities that meet on alternate Wednesdays and at other announced times. Evaluation of these experiences focuses on attendance and performance participation. The grade(s) received in applied music reflect(s) this consideration.

- MUS 198L/398** **APPLIED MUSIC LAB.** (0). Group studio instruction and performance of solo literature and ensemble repertoire in recital settings. Required each semester of students enrolled in primary applied lessons.

## Ensembles

Opportunities for the development of performance skills are provided through participation in musical organizations. All majors in music education or sacred music or minors in music participate each semester in the various ensembles. Other students may elect to participate in ensembles for credit.

- MUS 299BE/ 299KE/299WE** **BRASSWIND ENSEMBLE, KEYBOARD ENSEMBLE, WOODWIND ENSEMBLE.** (1 each). Open to students with performance skills on an elective basis. May re-enroll for a maximum of eight hours.
- MUS 299B/** **BAND, CHOIR, ORCHESTRA.** (1 each). Required major ensemble



<b>299C/299OR</b>	for freshman and sophomore instrumental, keyboard or vocal music majors (four consecutive semesters). May also be taken by non-majors.
<b>MUS 299</b>	<b>VOCAL ENSEMBLE.</b> (1). 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.
<b>MUS 299T/ 299J</b>	<b>OPERA THEATRE, JAZZ ENSEMBLE.</b> (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.
<b>MUS 499B/ 499C/499OR</b>	<b>BAND, CHOIR, ORCHESTRA.</b> (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.
<b>MUS 499T/ 499E</b>	<b>OPERA THEATRE, JAZZ ENSEMBLE.</b> (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.
<b>MUS 499</b>	<b>VOCAL ENSEMBLE.</b> (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.

**BME Instrumental Music  
Academic Pathway \***

<b>Semester 1</b>		<b>Hr s.</b>	<b>Semester 2</b>		<b>Hrs .</b>
MUS 101	Theory I	3	MUS 102	Theory II	3
MUS 119P	Class Piano I	1	MUS 119P	Class Piano II	1
MUS 198I	Primary Applied	2	MUS 139	Woodwind Class	1
MUS 198L	Applied Mus Lab	0	MUS 198I	Primary Applied	2
MUS 299B	Band	1	MUS 198L	Applied Music Lab	0
GE 101	University Seminar	1	MUS 299B	Band	1
ENG 101	Comp & Rhet. I	3	ENG 102	Comp. & Rhet II	3
MAT 117	Elem. Statistic	3	HIS 101	World Civ. I	3
PED	Activity	1	PED 111	Personal & Comm. Health	2
- TOTAL :		<b>15</b>	TOTAL :		<b>16</b>

<b>Freshman Summer Semester</b>		<b>Hr s.</b>			<b>Hrs .</b>
PSY 101	Gen Psychology	3			
ART 100	Intro to Art	3			
HIS 205/206	US His	3			
- TOTAL :		<b>9</b>			

Semester 3		Hr s.	Semester 4		Hrs .
MUS 109	Voice Class I	1	MUS 110	Voice Class II	1
MUS 159	String Class	1	MUS 179	Guitar Class	1
MUS 169	Percussion Class	1	MUS 202	Theory IV	3
MUS 201	Theory III	3	MUS 215	Obs. Mus. Ed	2
MUS 121P	Class Piano III	1	MUS 198I	Primary Applied	2
PHY 103	Earth Science	3	MUS 198L	Applied Music Lab	0
MUS 198I	Primary Applied	2	MUS 299B	Band	1
MUS 198L	Applied Music Lab	0	EDU 204	Ed. Psych.	3
MUS 200B	Band	1	SE 221	Intro Except. Child	3
PHY 104L	Earth Science Lab	1	MUS 122P	Class Piano IV	2
MUS 205	Music of Black Americans	3			
- TOTAL :		17	TOTAL :		18

Sophomore Summer Session		Hr s.			Hrs .
PSC 203	Am. Nat. Gov.	3			
SPT 206	Fund. Of Speech	3			
S/A 201	Intro to Sociology	3			
- TOTAL :		9			

**BME Instrumental Music Continue  
Academic Pathway**

<b>Semester 5</b>		<b>Hr s.</b>	<b>Semester 6</b>		<b>Hrs .</b>
EDU 260	Educ. And Cultural Diversity	3	MUS 398I	Primary Applied	2
MUS 149	Brasswinds	1	MUS 398L	Applied Music Lab	0
MUS 398I	Primary Applied	2	MUS 499B	Band	1
MUS 398L	Applied Music Lab	0	MUS 304	Music Ed. III	2
MUS 401	Form and Analysis	2	EDU 325	Assessment and Data Driven	3
MUS 499B	Band	1	MUS 314	Music History & Lit II	3
MUS 303	Music Education II	2	EDU 420	Tech. of Tchg. Reading	3
MUS 313	Music History & Lit. I	3	EDU 321	Psychology of Development	3
MUS 209	Basis Conducting	2	MUS 309	Instrumental conducting	2
- TOTAL :		<b>16</b>	TOTAL :		<b>18</b>

<b>Junior Summer Session</b>		<b>Hr s.</b>			<b>Hrs .</b>
SPT 209	Intro to Theatre	3			
EDU 251	Prof. Educ. Legal/Ethical Issues	3			
BIO 103	Biology	3			
- TOTAL :		<b>9</b>			

Semester 7		Hr s.	Semester 8		Hrs .
MUS 306	Instrumentation	2	EDU 475	Seminar in Student Teaching	2
MUS 499B	Band	1	EDU 476	Student Tchg/Elementary	5
MUS 403	Prac. Exp./Music Educ.	2	EDU 477	Student Tchg/Secondary	5
MUS 398I	Primary Applied	2			
MUS 398L	Applied Music Lab	0			
EDU 435	Classroom Management	3			
EDU 316	Techniques of Teaching	3			
EDU 317	Differentiated Instruction	3			
- TOTAL :		<b>16</b>	TOTAL :		<b>12</b>

**\*Until submission to and approval by the National Association of Schools of Music, the professional Education courses in this Pathway are tentative.**

**BME Vocal Music\*\*  
Academic Pathway**

Semester 1		Hr s.	Semester 2		Hrs .
MUS 101	Theory I	3	MUS 102	Theory II	3
MUS 119P	Class Piano I	1	MUS 120P	Class Piano II	1
MUS 198V	Primary Applied Voice	2	MUS 139	Woodwind Class	1
MUS 198L	Applied Music Lab	0	MUS 198V	Primary Applied Voice	2
MUS 299C	Choir	1	MUS 198L	Applied Music Lab	0

GE 101	University Seminar	1	MUS 299C	Choir	1
ENG 101	Comp. & Rhet I	3	ENG 102	Comp. & Rhet II	3
MAT 117	Statistics	3	HIS 101	World Civ I	3
PED Activity		1	PED 111	Personal & Comm. Health	2
<b>Total:</b>		<b>15</b>	<b>Total:</b>		<b>16</b>

<b>Freshman Summer Session</b>		<b>Hr s.</b>			
PSY 101	General Psychology	3			
SPT 206	Fund. Of Speech	3			
PSC 203	Am. Nat. Gov.	3			
- TOTAL :		<b>9</b>			

<b>Semester 3</b>		<b>Hr s.</b>	<b>Semester 4</b>		<b>Hrs .</b>
MUS 201	Theory III	3	MUS 179	Guitar	1
MUS 299C	Choir	1	MUS 202	Theory IV	3
MUS 180	Survey of Instruments	1	MUS 215	Obs. Mus. Educ. I	2
MUS 121P	Class Piano III	1	MUS 198V	Primary Applied Voice	2
MUS 205	Music of Black Am	3	MUS 198L	Applied Music Lab	0
MUS 198V	Primary Applied Voice	2	MUS 299C	Choir	1
MUS 198L	Applied Music Lab	0	EDU 204	Educational Psych.	3

PHY 103	Earth Science	3	SE 221	Intro. Exceptional Child	3
EDU 260	Edu. And Cultural Diversity	3	MUS 122P	Class Piano IV	1
PHY 104L	Earth Science Lab	1	MUS 316	Choral Literature	2
<b>Total</b>		<b>18</b>	<b>Total</b>		<b>18</b>

Sophomore Summer Session		Hr s.			
S/A 201	Intro to Sociology	3			
BIO 103	Biology	3			
SPT 209	Intro Theatre	3			
- TOTAL :		<b>9</b>			

**BME Vocal Music Continued  
Academic Pathway**

Semester 5		Hr s.	Semester 6		Hrs .
MUS 209	Basic Conducting	2	MUS 398V	Primary Applied Voice	2
EDU 250	Prof. Educ. Legal/Ethical Issues	3	MUS 398L	Primary Music Lab	0
MUS 398V	Primary Applied Voice	2	MUS 499C	Choir	1
MUS 398L	Primary Music Lab	0	MUS 304	Music Education III	2
MUS 401	Form and Analysis	2	MUS 310	Choral Conducting	2
MUS 499C	Choir	1	MUS 314	Music History and Lit II	3
MUS 303	Music Education II	2	EDU 420	Tech. of Teaching Reading	3
MUS 313	Music History and Lit I	3	EDU 321	Psychological Development	3
EDU 317	Differentiated Instruction	3	EDU 325	Assessment and Data Driven	3
<b>Total</b>		<b>18</b>	<b>Total</b>		<b>19</b>

<b>Junior Summer Semester</b>		<b>Hr s.</b>			
Art 100	Intro to Art	3			
His 205/206	American History	3			
- TOTAL :		<b>6</b>			

<b>Semester 7</b>		<b>Hr s.</b>	<b>Semester 8</b>		<b>Hrs .</b>
MUS 326	Choral Arranging	2	EDU 475	Seminar in Student Teaching	2
MUS 318	Choral Techniques	2	EDU 476	Student Teaching/Elementary	5
MUS 403	Prac. Exp./Music Edu.	2	EDU 476	Student Teaching/Secondary	5
MUS 398V	Primary Applied Voice	2			
MUS 398L	Primary Applied Music Lab	0			
MUS 499C	Choir	1			
EDU 316	Techniques of Teaching	3			
EDU 251	Prof. Educ. Legal/Ethical Issues	3			
EDU 435	Classroom Management	3			
<b>Total</b>		<b>18</b>	<b>TOTAL:</b>		<b>12</b>

\* Keyboard Majors should substitute Primary Applied Keyboard for Voice and add MUS 109, 110 and 120 (MUS 120 twice for 2 cr. Hours) to the Pathway.

\*\* Until submission to and approvals by the National Association of Schools of Music, the professional Education courses in this Pathway are tentative.



**BS in Music (Sacred Music Emphasis)**

**Academic Pathway**

<b>Semester 1</b>		<b>Hr s.</b>	<b>Semester 2</b>		<b>Hrs .</b>
MUS 101	Theory I	3	MUS 102	Theory II	3
MUS 119P or 120I	Class Piano I or Secondary Applied	1	MUS 120P or 120I	Class Piano II or Secondary Applied	1
MUS 198	Primary Applied	2	MUS 299C/B	Choir or Band	1
MUS 198L	Applied Music Lab	0	MUS 198	Primary Applied	2
MUS 299B/C	Band or Choir	1	MUS 198L	Applied Music Lab	0
GE 101	University Seminar	1	PED 111	Personal & Comm. Health	2
ENG 101	Comp. & Rhet	3	ENG 102	Comp. & Rhet.	3
MAT 115	Contemporary Math	3	HIS 101	World Civ I	3
PED	Activity	1			
<b>TOTAL :</b>		<b>15</b>	<b>TOTAL :</b>		<b>15</b>

<b>Semester 3</b>		<b>Hr s.</b>	<b>Semester 4</b>		<b>Hrs .</b>
MUS 201	Theory III	3	MUS 202	Theory IV	3
MUS 121P or 120I	Class Piano or Secondary Applied	1	MUS 122P or 120I	Class Piano or Secondary Applied	1
MUS 198	Primary Applied	2	MUS 198	Primary Applied	2
MUS 198L	Applied Lab	0	MUS 198L	Applied Lab	0
MUS 299C/B	Choir or Band	1	MUS 299C/B	Choir or Band	1
MUS 209	Basic Conducting	2	MUS 309 / 310	Instrumental or Choral Conducting	2
ENV 103	Intro to Environmental	3	MUS 205 or	Music of Black Am or Foreign Language	3

	Science		Language	Elective	
SPT 206	Intro to Speech	3	PSY 101	Psychology	3
MUS 109	Voice Class	1	MUS 110	Voice Class 2	1
- TOTAL :		16	TOTAL :		16

Semester 5		Hrs.	Semester 6		Hrs.
MUS 311	Sacred Music	3	MUS 398T	Service Playing	2
PSY 208	Experimental Psychology	3	PSC 203	Am, Nat. Government	3
PSY 209L	Lab	1	SPT 209	Intro to Theatre	3
Art 100	Intro to Art	3	HIS 102	World Civ II	3
SA 201	Intro to Sociology	3	MUS 314	Music History & Lit. II	3
MUS 313	Music History & Lit I	3	MUS	Elective	1
- TOTAL :		16	TOTAL :		15

Primary Applied Lessons reflect the area of interest of the student (MUS 198I for Instrumental, MUS 198V for Vocal, and MUS 198K for Keyboard). Music Electives arranged through consultation with Major Advisor, as per NASM policy.

Semester 7		Hrs.	Semester 8		Hrs.
	Upper Division Music Electives *	9	MUS 404	Church Internship	2
PHI 310	or Upper Division Elective	3	SOC 306	or Upper Division Elective	3
SOC 302	or Upper Division Elective	3	SOC 402	or Upper Division Elective	3
			REL 327	or Upper Division Elective	3
			NURS 335	or Upper Division Elective	3

			PED	Activity or Elective	1
- TOTAL :		15	TOTAL :		16

Music Electives arranged through consultation with Major Advisor, as per NASM policy

# SPEECH AND THEATRE (Minor)

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## Department of Visual and Performing Arts

Associate Professor: Govang

Assistant Professor: Semler

### 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.

### Degrees Offered

None

### 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). 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/ THEATRE PRACTICE.** (1). Students will participate in area

**SPT 181/ THEATRE PRACTICE.** (1). Students will participate in area productions as actors or technicians.

**182/281/**

**282/381/**

**382/481/482**

**SPT 206 FUNDAMENTALS OF SPEECH.** (3). 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). 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). A survey course in the history, literature, criticism, and arts of the theatre.

**SPT 215 ELEMENTARY STAGECRAFT.** (3). 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). 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.

# LIBRARY AND INFORMATION SCIENCE (Minor)

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## Library and Information Science

Assistant Professors: Blau, Farrar, Offord  
Instructors: Cordray, Keeton, Qian, Schleer

### 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.f.a, sp),16 weeks.. This course introduces learners to information retrieval, evaluation and research skills.

**Prerequisite: GE 101**

**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 250 CHILDREN'S LITERATURE.** (2, fa, sp). Materials written for children, techniques for presenting literature to children, and criteria for selecting books for children are emphasized.

**EDU 255 ADOLESCENT LITERATURE.** (2, sp). Introduction to age-appropriate literature for adolescents, and techniques for using literature in middle schools and high school classroom. Students seeking certification as high school English teachers may substitute EDU 416: Reading and Writing in the Middle School.

**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 377 SPECIAL TOPICS IN TECHNOLOGY.** (1). Students may work with a faculty member to create a project which includes or uses technology as a major aspect. Prerequisite: EDU 270 and permission of the faculty person who will supervise the project; EDU 376 as a prerequisite or concurrent enrollment is recommended.
- 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.
- JOU 126 VISUAL COMMUNICATION II.** (3, sp). Advanced visual communication principles and application, emphasizing photojournalism, live news coverage, and digital uploads and presentation. Requires news coverage outside of class, digital camera, and mobile storage. Prerequisite: JOU 125 with a grade of "C" or better.
- 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 TOPIC.** (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.



# **BACHELORS OF LIBERAL STUDIES (B.L.S.) DEGREE**

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## **COLLEGE OF ARTS AND SCIENCES**

### **Mission**

The Bachelor of Liberal Studies (B.L.S.) degree is administered through the College of Arts and Sciences. This degree is specifically designed for the non-traditional student who is already in the workforce but seeking a baccalaureate degree that will provide him/her with the credentials necessary to enhance his/her career. The program offers more flexibility than a traditional degree in that the student can develop his/her own program around two or more emphasis areas that will help meet his/her professional goals. This degree does not require or lead to a major in a subject field. However, through a strong academic foundation in general education and specific knowledge in selected disciplines, the BLS graduate will perform more effectively in his/her profession and become more proficient in specific job-related skills areas.

### **Degree Offered**

Bachelor of Liberal Studies

### **Objectives**

1. Students completing the Bachelor of Liberal Studies degree program will be satisfied with their individualized programs of study.
2. Graduates of the Bachelor of Liberal Studies degree program will find opportunities for career and professional advancement as a result of their degrees.
3. Graduates of the Bachelor of Liberal Studies degree program will demonstrate comparable general education skills as all other Lincoln University majors.
4. Graduates of the Bachelor of Liberal Studies degree program will demonstrate proficiency in their chosen emphasis areas.

### **Assessment Program**

Unlike other degree programs, the B.L.S. degree does not have a common core curriculum for all students. Each student designs a unique academic experience built upon a general education foundation. Consequently, surveys, in addition to the General Education Test (GET) and capstone experiences required of all students, are utilized to determine if the program objectives have been met. A program satisfaction survey is administered to all prospective graduates of the program. An alumni survey is also sent to all graduates to determine if they have experienced opportunities for career and professional advancement as a result of their degrees.

### **Admission Requirements**

1. The student must be admitted to the University.
2. The student must submit an application and be formally approved for admission into the B.L.S. Program administered by the College of Arts and Sciences.

3. The student must be 21 years of age or older at the time of application for admission.
4. The student must be admitted to the program at least one semester prior to the semester of graduation.
5. The transfer student must have a "C" average or better in previous college work; a student with less than a "C" average who has been out of school for ten years or more may be admitted on a conditional basis.
6. A person who has already earned a bachelor's degree is not eligible to enroll in the BLS program.

A student admitted into the Liberal Studies Program will not be required to take the ACT or placement tests. However, placement tests will be available for all students as part of the advising process.

## **Degree Requirements**

1. The student must earn a total of 120 semester hours of academic credit.
2. The student must successfully complete a minimum of 40 hours of upper division coursework (numbered 300 and above), of which 18 hours must be in the emphasis areas, with no less than 6 hours in any one emphasis area.
3. The student must earn a minimum of a 2.00 cumulative grade point average.
4. The student must successfully complete (with a grade of "C" or better in each course) a total of at least 36 hours in two or three areas of emphasis designed to meet the student's educational goals. No fewer than 12 credit hours may be completed in any one selected area of emphasis.
5. At least 30 upper-division hours of coursework must be earned in residence.
6. The student must complete a capstone experience and at least one writing intensive course in an emphasis area.

## **Program Restriction**

No more than 30 hours of credit may be earned in any one emphasis area without written permission from the student's advisor. Hours taken beyond the 30 credits in a discipline will be recognized as elective hours.

## **General Education Requirements for the B.L.S. Degree**

Area 1	English Proficiency	3 hours
	ENG 101 or ENG 151H with a grade of "C" or better.	
Area 2	Missouri State Law Requirement	3 hours
	HIS 205 or 206 or PSC 203 or 204	
Area 3	Mathematics Proficiency	3 hours
	MAT 112 or higher.	
Area 4	Writing Proficiency	3 hours
	ENG 102 or ENG 152H with a grade of "C" or better.	
Area 5	Humanities	9 hours
	A minimum of nine hours selected from at least two different disciplines: art, foreign language, literature, music, philosophy, or theater.	
Area 6	Science/Mathematics	7-9 hours
	A minimum of seven hours selected from at least two different disciplines: biology, chemistry,	

computer science, mathematics, physics, experimental psychology, agriculture, and natural resources. At least one course must be a science course (biology, chemistry, physics, experimental psychology, agriculture, or natural resource).

Area 7 Social Science 9 hours

A minimum of nine hours selected from at least two different disciplines: anthropology, criminal justice, economics, geography, history, political science, psychology, social work, sociology or social science.

Area 8 Cultural Diversity 3 hours

The cultural diversity component may be fulfilled by completing any one of the following courses:

AAS 200	African American Studies
ANT 311	World Ethnography
ANT 411	Culture Areas of the World
BAD 215	Introduction to Global Business
EDU 260	Education and Cultural Diversity
ENG 307	American Literature Through 1865
ENG 308	Survey of American Literature: 1865-Present
ENG 320	Masterpieces of Literature in English Translation
ENG 340	Women and Literature
FRE or SPA	Any 3-hour course in French, Spanish, or other modern foreign language
FRE 321	French Civilization I
FRE 322	French Civilization II
HIS 101	World Civilization I
HIS 102	World Civilization II
HIS 151H	Honors World Civilization I
HIS 152H	Honors World Civilization II
HIS 203	African American History
HIS 402	Ethnic History
HIS 403	Blacks in America
HIS 404	History of the Old South
HIS 407	History of the New South
HIS 477	Women in America
MUS 205	Music of Black Americans
NUR 335	Death & Bereavement: Cultural Variations
PHI 201	Major Religions of the World
PHI 208	African World View
PSC 350	U.S. Ethnic and Racial Politics
PSC 440	Comparative Politics
PSC 460	International Relations
PSC 480	Civil Rights, Civil Liberties
S/A 200	American Cultural Diversity
S/A 202	Introduction to Socio-Cultural Anthropology
SOC 302	Minority Relations
SOC 403	Sociology of Black America
SOC 406	Community and Social Changes

SPA 321	Latin American Civilization
SPA 322	Spanish Civilization

## Emphasis Area Requirements for the B.L.S. Degree

Emphasis Area One (must include at least 6 hours upper division)	12 hours minimum
Emphasis Area Two (must include at least 6 hours upper division)	12 hours minimum
Emphasis Area Three (optional) (must include at least 6 hours upper division)	12 hours minimum
<b>Total</b> (must include at least 18 hours total upper division)	<b>36 hours minimum</b>

**NOTE:** If a student chooses only two different emphasis areas, the two areas together must still total a minimum of 36 hours (including at least 18 hours of upper division credit). In addition, a designated writing intensive course (WI) must be completed in one of the selected emphasis areas.

## Credit for Experiential Learning

A student may receive credit for prior learning experiences as outlined below:

1. A student may petition for credit upon admission to the Liberal Studies Program. The Liberal Studies Committee will complete an evaluation within 90 days of receipt of a student's application. Credit will not be officially posted to a student's transcript until the student has completed 24 hours of satisfactory coursework in residence at Lincoln University. Credit hours for experiential learning may be accrued based upon experience gained prior to and/or during a student's enrollment at Lincoln University.
2. Applications for experiential learning credit must be submitted by the end of the semester preceding the semester of graduation to allow sufficient time for approval of the application, posting of credits, and revisions to the application, if needed. No applications for experiential learning credit will be accepted during the semester of graduation.
3. No more than 12 hours of credit may be granted for experiential learning.
4. Credit earned for experiential learning may not exceed 3 hours for each year of full-time work experience.
5. Credit earned for experiential learning will count as lower division elective credit.
6. A student's petition must include work experience verified by his/her supervisor or similar appropriate evidence and verification.
7. The student's petition must be approved by the faculty advisor and the Liberal Studies Committee.

## Credit for Community Service

A student may receive credit for community service as outlined below:

1. A student may earn up to 6 hours of credit for participation in a community service project or cultural activity, with prior approval of the appropriate faculty advisor and the Liberal Studies Committee.
2. Credit earned for community service may not exceed one credit hour for each 30 hours of verified service.
3. Credit earned for community service will count as lower division elective credit.

# **COLLEGE OF PROFESSIONAL STUDIES**

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Office of the Dean  
116 Stamper Hall  
(573) 681-5489

**DEPARTMENT OF BUSINESS**  
101 Stamper Hall  
(573) 681-5487

**DEPARTMENT OF EDUCATION**  
452 Martin Luther King Hall  
(573) 681-5250

**DEPARTMENT OF NURSING AND ALLIED HEALTH**  
100 Elliff Hall  
(573) 681-5421

# DEPARTMENT OF BUSINESS

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Professors: Anunoby, Edoho, Headrick, Ike  
Associate Professors: Bouras, Burgess, Chowdhury, Logan  
Assistant Professors: Frank, Heldenbrand  
Melloway, Rankin, Westergaard  
Instructor: Hendricks

## Objectives

The business program offerings are designed to produce an individual who:

1. Understands the basic principles underlying business positions domestically and internationally;
2. Demonstrates understanding of how the various individuals within a business or governmental unit contribute to the overall betterment of their organization;
3. Demonstrates through performance and application the principles of effective communication skills;
4. Demonstrates understanding of the ethics, status, organization and ideals of professionally trained individuals;
5. Demonstrates poise and confidence basic to good leadership, cooperation and a professional attitude in keeping with the chosen area of work;
6. Demonstrates familiarity with sources of available material for enriching the various business, educational, personal and social experience of individuals;
7. Demonstrates a wholesome attitude toward continuation of professional improvement;
8. Demonstrates skill in the use of new technology in business applications.

## Business Department General Education and Core Requirements

### General Education Requirements:

ECO 201 is required for Area 5D (Social Behavior Sciences); PHI 304 is required for Area 6 (Humanities and Fine Arts); and BAD 215 is required for Area 8 (International Cultural Diversity).

### Core Requirements:

Each program area will include a set of core courses, in addition to those required for the major, which provides for a comprehensive understanding of the field of business. These courses are listed as core requirements in each program area.

### Duplicate Credit:

Required or other courses used as electives for a major may not be used as electives for a second major or for a minor.

## Business Department 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.

# ACCOUNTING

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## DEPARTMENT OF BUSINESS

Professor: Headrick  
Assistant Professor: Rankin

### **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 112, 113, 121 or 123 is required for Area 2 (Mathematics Skills), ECO 201 is required for Area 5D (Social and Behavioral Science), PHI 304 is required for Area 6 (Humanities and Fine Arts), and BAD 215 is required for Area 8 (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 390/391 DIRECTED TUTORING.** (3). Supervised tutoring of Principles 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 495/497SPECIAL 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.

BS in Accounting  
Academic Map (Fall Admission)

Freshman First Semester		Hrs	Freshman Second Semester		Hrs
GE 101	University Seminar	1	PED 1XX	P.E. Activity	1
ENG 101	Comp. and Rhet. I	3	ENG 102	Comp. and Rhet. II	3
BED 208 or CS 105	Integrated Computer Applications	3	PSY 101	General Psychology	3
MAT 112	Applied Algebra	3	BAD 250	Personal Finance	3
BAD 101	Introduction to Business	3	PED 111	Personal and Community Health	2
BIO 103	Principles of Biology	3	ENV 103/104	Environmental Science w/Lab	4
<b>TOTAL:</b>		<b>16</b>	<b>TOTAL:</b>		<b>16</b>

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
<b>TOTAL:</b>		<b>15</b>	<b>TOTAL:</b>		<b>15</b>

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	ACC 348	Computerized Accounting	3
BAD 376	Business Statistics II	3	BAD 350	Fund. of Financial Mgt.	3
ACC 346	Intermediate Accounting I	3	ACC 347	Intermediate Accounting II	3
ART, MUS, SPT or	Art, music, theater appreciation or literature	3	SA 200	American Diversity or other diversity option	3
<b>TOTAL:</b>		<b>15</b>	<b>TOTAL:</b>		<b>15</b>

Senior Seventh Semester		Hrs	Senior Eighth Semester		Hrs
PHI 304	Business Ethics	3	BAD 490	Business Policy	3
ACC 446	Intermediate Accounting III	3	ACC 345	Individual Income Tax	3
ACC 342	Cost Management I	3	ACC 343	Cost Management II	3
ACC 448	Accounting Info. Systems	3	ACC 449	Auditing	3
	Free Elective	2	ACC 441	Governmental Accounting	3
<b>TOTAL:</b>		<b>14</b>	<b>TOTAL:</b>		<b>15</b>

**Notes:**

1. A minimum of 120 hours plus 1 hour of Physical Education activity is required for graduation with a B.S. degree in Accounting.

2. Students must take the following to fulfill general education requirements: MAT 112, 113, 121, or 123 (Area 2), ECO 201 (Area 5D), PHI 304 (Area 6), and BAD 215 (Area 8).
3. Students should consult the *Undergraduate Bulletin* for courses that will fulfill the general education requirements in Area 2, Area 4, Area 5A, Area 5B, Area 6 and Area 9, or consult with an advisor.

# **BUSINESS ADMINISTRATION**

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## **DEPARTMENT OF BUSINESS**

Professors: Anunoby, Edoho, Ike  
Associate Professors: Bouras, Burgess, Chowdhury  
Assistant Professors: Frank, Westergaard  
Instructor: Hendricks

### **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 favorable 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 Requirement**

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 Courses

**Major:** B.S. in Business Administration

**General Education Requirements:** A minimum grade of “C” is required in ECO 201 for Area 5D (Social and Behavioral Science) MAT 112 or 113 (Area 2), PHI 304 for Area 6 (Humanities and Fine Arts) and BAD 215 for Area 8 (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.

## 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. Prerequisite: Sophomore Standing.
- 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 495/497SPECIAL TOPICS IN BUSINESS.** (1-3). Topic to be listed in course schedule. May enroll again as topic changes.

BS in Business Administration  
Academic Map (Fall Admission)

Freshman First Semester		Hrs	Freshman Second Semester		Hrs
GE 101	University Seminar	1	PED 1XX	P.E. Activity	1
ENG 101	Comp. and Rhet. I	3	ENG 102	Comp. and Rhet. II	3
BED 208 or CS 105	Integrated Computer Applications	3	PSY 101	General Psychology	3
MAT 112	Applied Algebra	3	BAD 250	Personal Finance	3
BAD 101	Introduction to Business	3	PED 111	Personal and Community Health	2
BIO 103	Principles of Biology	3	ENV 103/104	Environmental Science w/Lab	4
<b>TOTAL:</b>		<b>16</b>	<b>TOTAL:</b>		<b>16</b>

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
<b>TOTAL:</b>		<b>15</b>	<b>TOTAL:</b>		<b>15</b>

Junior Fifth Semester		Hrs	Junior Sixth Semester		Hrs
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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
<b>TOTAL:</b>		<b>15</b>	<b>TOTAL:</b>		<b>15</b>

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
<b>TOTAL:</b>		<b>14</b>	<b>TOTAL:</b>		<b>15</b>

# BUSINESS EDUCATION

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## DEPARTMENT OF BUSINESS

Assistant Professor: Melloway

### 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.

### Other Assessment Measures

1. Industry certification exams such as (MOUS) Microsoft Office User Specialist (optional)
2. Clinical experience
3. Follow-up surveys

## 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

**Major:** B.S. in Business Education

**General Education Requirements:** A grade of “C” or better in MAT 112 or 113. ECO 201 is required for Area 5D (Social and Behavioral Science); PHI 304 is required for Area 6 (Humanities and Fine Arts), and BAD 215 is required for Area 8 (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 495/497SPECIAL TOPICS.** (1-3). Topic to be listed in course schedule. May enroll again as topic changes.

## B.S.Ed. in Business Education Academic Map (Fall Admission)

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
<b>TOTAL:</b>		<b>15</b>	<b>TOTAL:</b>		<b>15</b>

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
<b>TOTAL:</b>		<b>17</b>	<b>TOTAL:</b>		<b>18</b>

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 appreciation or literature	3	EDU 325	Assess & Data Driven	
<b>TOTAL</b>		<b>17</b>	<b>TOTAL:</b>		<b>15</b>

Senior Seventh Semester		Hrs	Senior Eighth Semester		Hrs
EDU 304	Practicum in Sec. Ed	2	EDU 474	Student Tchg. Grades 9-12	10
EDU	M/M/O: Tchg. Business	3	EDU 475	Seminar in Student	2

417B				Teaching	
EDU 435	Classroom Mgmt.	3			
BED 420	Implementing Bus Ed Programs	3			
BED 495	Coord.of Coop. Ed	3			
EDU 376	Adv. Instructional Technology	3			
<b>TOTAL:</b>		<b>17</b>	<b>TOTAL:</b>		<b>12</b>

# ECONOMICS

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## Course Descriptions

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. Prerequisite: Sophomore standing.
- 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. Prerequisite: Sophomore standing.
- 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 495/497SPECIAL TOPICS IN ECONOMICS.** (1-3) Topic to be listed in course schedule. May enroll again as topic changes.

# MARKETING

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## DEPARTMENT OF BUSINESS

Associate Professor: Logan  
Assistant Professor: Heldenbrand

### **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

**Major:** B.S. in Marketing

**General Education Requirements:** A minimum grade of “C” is required in ECO 201 for Area 5D (Social and Behavioral Science), MAT 112 or 113 (Area 2), PHI 304 for Area 6 (Humanities and Fine Arts) and BAD 215 for Area 8 (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 basic business research methods to the solution of major marketing problems. Market studies will be analyzed to determine the appropriate marketing mix for various business enterprises. Prerequisites: MKT 321 and BAD 376 (concurrently).

**MKT 495/ SPECIAL TOPICS.** (1-3). Topic to be listed in course schedule.

**497** May enroll again as topic changes.

BS in Marketing  
Academic Map (Fall Admission)

Freshman First Semester		Hrs	Freshman Second Semester		Hrs
GE 101	University Seminar	1	PED 1XX	P.E. Activity	1
ENG 101	Comp. and Rhet. I	3	ENG 102	Comp. and Rhet. II	3
BED 208 or CS 105	Integrated Computer Applications	3	PSY 101	General Psychology	3
MAT 112	Applied Algebra	3	BAD 250	Personal Finance	3
BAD 101	Introduction to Business	3	PED 111	Personal and Community Health	2
BIO 103	Principles of Biology	3	ENV 103/104	Environmental Science w/Lab	4
<b>TOTAL:</b>		<b>16</b>	<b>TOTAL:</b>		<b>16</b>

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
<b>TOTAL:</b>		<b>15</b>	<b>TOTAL:</b>		<b>15</b>

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	MKT 322	Fund. of Retailing	3
BAD 376	Business Statistics II	3	MKT 309	Principles of Marketing	3
ECO 305	Money, Credit and Banking	3	BAD 350	Fund. of Financial Mgt.	3
ART, MUS, SPT or ENG	Art, music, theater appreciation or literature	3	SA 200	American Diversity or other diversity option	3
<b>TOTAL:</b>		<b>15</b>	<b>TOTAL:</b>		<b>15</b>

Senior Seventh Semester		Hrs	Senior Eighth Semester		Hrs
PHI 304	Business Ethics	3	BAD 490	Business Policy	3
MKT 345	Consumer Behavior	3	MKT 421	Marketing Research	3
MKT 326	Marketing Management	3		Marketing Elective	3
MKT 415	International Marketing	3		Marketing Elective	3
	Free Elective	2		Marketing Elective	3
<b>TOTAL:</b>		<b>14</b>	<b>TOTAL:</b>		<b>15</b>

A minimum of 120 hours, which includes 40 hours of upper division work, plus 1 hour of activity Physical Education is required for graduation. Students should consult the General Education Requirements section of the *Undergraduate Bulletin* for alternative courses that will fulfill the general education requirements, or consult with an advisor.

# PUBLIC ADMINISTRATION

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## DEPARTMENT OF BUSINESS

Professor: Edoho, Ike

### **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

**Major:** B.S. in Public Administration

**General Education Requirements:** A minimum grade of “C” is required in ECO 201 for Area 5D (Social and Behavioral Science), MAT 112 or 113 (Area 2), PHI 304 for Area 6 (Humanities and Fine Arts), and BAD 215 for Area 8 (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.

BS in Public Administration  
Academic Map (Fall Admission)

Freshman First Semester		Hrs	Freshman Second Semester		Hrs
GE 101	University Seminar	1	PED 1XX	P.E. Activity	1
ENG 101	Comp. and Rhet. I	3	ENG 102	Comp. and Rhet. II	3
BED 208 or CS 105	Integrated Computer Applications	3	PSY 101	General Psychology	3
MAT 112	Applied Algebra	3	BAD 250	Personal Finance	3
BAD 101	Introduction to Business	3	PED 111	Personal and Community Health	2
BIO 103	Principles of Biology	3	ENV 103/104	Environmental Science w/Lab	4
<b>TOTAL:</b>		<b>16</b>	<b>TOTAL:</b>		<b>16</b>

Sophomore Third Semester		Hrs	Sophomore Fourth Semester		Hrs
PSC 203	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
<b>TOTAL:</b>		<b>15</b>	<b>TOTAL:</b>		<b>15</b>

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	PAD 338	Human Resource Management	3
BAD 376	Business Statistics II	3	BAD 350	Fund. of Financial Mgt.	3
ECO 305	Money, Credit and Banking	3	PAD 310	Principles of Public Admin.	3
ART, MUS, SPT or ENG	Art, music, theater appreciation or literature	3	SA 200	American Diversity or other diversity option	3
<b>TOTAL:</b>		<b>15</b>	<b>TOTAL:</b>		<b>15</b>

Senior Seventh Semester		Hrs	Senior Eighth Semester		Hrs
PHI 304	Business Ethics	3	BAD 490	Business Policy	3
BAD 401	Public Policy Process	3	PAD 404	Intergovernment Relations	3
PAD 402	Modern Social Organization	3	PAD 475	Public Finance	3
PAD 441	Governmental Accounting	3	PAD 407	Public Admin. Internship	3
	Free Elective	2	PAD 451	Organizational Behavior	3
<b>TOTAL:</b>		<b>14</b>	<b>TOTAL:</b>		<b>15</b>

A minimum of 120 hours plus 1 hour of activity in Physical Education is required for graduation. Students should consult the General Education Requirements section of the *Undergraduate Bulletin* for alternative courses that will fulfill the general education requirements, or consult with an advisor.

# EDUCATION

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## DEPARTMENT OF EDUCATION

Professors: Chapel, Hendricks, Jay, Kern, Saha  
Associate Professors: Brown, Connor, Lael, Schnieders, Wood  
Assistant Professors: Gohring, Potterton

### Mission

The Mission of the Department of Education is to train current and future educators, education leaders, early childhood care givers and counselors through degree programs in teaching, early childhood, administration, leadership, counseling, and wellness that employ technology skills, inclusive pedagogy and research-based results-oriented practices in education.

### Accreditation

The Department of Education is accredited by the Council for the Accreditation of Educator Preparation (CAEP)- Programs are approved by the Missouri Department of Elementary and Secondary Education (DESE).

**The Missouri Department of Elementary and Secondary Education through the Office of Educator Quality and Lincoln University Department of Education is transitioning from the MoSTEP standards to the MoSPE standards which go into effect state wide in August of 2017. Required changes and implementation schedule will be communicated to students through individual advising sessions, meetings, and/or other university communications.**

### Conceptual Framework

The Conceptual Framework has three themes:

#### *Enduring Understanding*

Learning and teaching center on Content knowledge and skills valuable for a lifetime.

#### *Engaging Pedagogy*

Learning is active and interactive, Emphasizing inquiry and application.

#### *Evolving Worldview*

Learners encounter diverse people, perspectives, and ideas to enhance social responsibility and global consciousness.





## **Degrees Offered**

### **Early Childhood Care and Education**

The Associate of Applied Science in Early Childhood Care and Education is a two-year program leading to the A.A.S. degree. It is specifically designed to meet the critical need for highly qualified child care providers and early childhood practitioners. Candidates can become leaders in working with families with children from birth to age eight. Candidates seeking the A.A.S. degree in early childhood care and education must fulfill the following requirements for graduation:

1. Complete 6 credit hours with a cumulative GPA of 2.75 or better.
2. Submit a comprehensive professional portfolio that demonstrates competency.
3. Submit two letters of recommendation from Early Childhood Practicum supervisors and/or Early Childhood employers.
4. Document successful background screening from the Missouri Department of Health and Senior Services, Family Care Safety Registry for practicum courses registration and graduation requirement purposes.
5. Demonstrate professional competence through the completion of EDU 297- Capstone Seminar in Early Childhood Education course. (1 credit hour)

The Early Childhood Care and Education program also serves as an Area of Concentration for Elementary Education majors. Candidates receiving the initial Missouri Elementary Teaching Certificate (Grades 1-6) may complete an additional endorsement in Early Childhood Education (PreK-3rd Grade). Candidates interested in the Associate of Applied Science in Early Childhood Care and Education should contact an early childhood advisor for specific requirements.

### **Bachelor of Science in Education**

Candidates earn the Bachelor of Science in Education degree (B.S.Ed.) when they complete requirements for one of the education programs as well as general education and major and minor (if applicable) requirements of Lincoln University. Music Education majors receive a Bachelor of Music Education degree (B.M.E.).

Lincoln University undergraduate education programs are fully accredited by the Council for the Accreditation of Educator Preparation (CAEP) and approved by the Missouri Department of Elementary and Secondary Education (MO-DESE). The Department of Education offers programs for Missouri teacher certification in elementary, special education, middle school, and secondary education.

### **Elementary Education Program**

Graduates of the Elementary Education Program qualify for Missouri certification to teach children in grades one through six.

### **Special Education Certification Program**

A double major in Elementary and Special Education has been approved by the Department of Elementary and Secondary Education. This program typically requires one additional semester to complete. The Special Education Certification Program prepares special education teachers for grades K-12. Candidates majoring in elementary and special education will complete the requirements for Missouri Cross Categorical Certification. Lincoln University does not offer coursework leading to Missouri certification to work with students with severe/profound disabilities. All students

majoring in elementary and special education must meet with the Special Education Advisor to develop a program of study.

## **Middle School Education Program**

The Middle School Program prepares prospective teachers for Missouri certification to teach grades 5-9. Candidates majoring in middle school education must have one area of approved course work selected from among the fields of business, English, math, science, and social studies. Candidates seeking certification in elementary or secondary education can add middle school certification requirements to their programs. Education advisors will provide a complete list of course requirements. Information is also available on the Department of Education webpage.

## **K-12 and Secondary Education Programs**

Lincoln University offers coursework leading to certification in K-12 and secondary education fields listed below. Advisors in the major department can provide information about specific requirements. Secondary and K-12 students are also encouraged to communicate regularly with advisors in the Department of Education.

Art Education (K-12)  
Business Education (9-12)  
English Education (9-12)  
Instrumental Music Education (K-12)  
Mathematics Education (9-12)  
Physical Education (K-12)  
Social Science Education (9-12)  
Unified Science (9-12)  
Vocal Music Education (K-12)

## **Objectives**

### **Elementary Education**

Candidates completing a Bachelor of Science in Education degree in the area of elementary education will

1. Demonstrate an understanding of their content area(s) knowledge base, educational and developmental theories, strategies, methodologies and procedures, national and state standards, and professional dispositions, for their appropriate degree
2. Demonstrate an understanding of how diverse students learn “best” and successfully implement instructional strategies that engage students in problem solving and critical thinking, utilizing a variety of methods that are developmental appropriate and content correct
3. Demonstrate an understanding of social responsibility and professionalism to enhance student’s global consciousness, as well as their own global consciousness, when they encounter diverse people, perspectives and ideas

## **Special Education**

Candidates completing a Bachelor of Science in Education degree in the area of special education will

1. Demonstrate an understanding of their content area(s) knowledge base, educational and developmental theories, strategies, methodologies and procedures, national and state standards, and professional dispositions, for their appropriate degree
2. Demonstrate an understanding of how diverse students learn “best” and successfully implement instructional strategies that engage students in problem solving and critical thinking, utilizing a variety of methods that are developmental appropriate and content correct
3. Demonstrate an understanding of social responsibility and professionalism to enhance student’s global consciousness, as well as their own global consciousness, when they encounter diverse people, perspectives and ideas

## **Secondary and K-12 Education**

Candidates should refer to the major content area advisor for a list of objectives.

## **Assessment Program**

Multiple assessments allow candidates and faculty to determine whether students have met the program objectives. The assessment program begins with the selective admission to the Teacher Education Program, which is described in detail below. The students must pass all sections of the Missouri General Education Test and complete the Missouri Educator Profile prior to admission to the Teacher Education Program. The candidates develop a portfolio as they progress through the program. Prior to a student teaching placement students must pass the Missouri Educator Content Area Exam for their area. All candidates seeking Missouri Teacher Certification must pass the Missouri Performance Assessment prior to receiving teacher certification.

## **Selective Admission to the Teacher Education Program**

The candidate must fulfill the following requirements:

1. An application approved by the faculty member responsible for each area in which the candidate seeks teaching certification
2. Submission of three faculty recommendations that indicate confidence in the candidate’s commitment and ability to complete the program and become an effective teacher
3. An ACT (American College Test) or SAT (Scholastic Aptitude Test) score
4. Passing score on all four areas of the Missouri General Education Test
5. Successful completion of any pre-college-level courses into which he or she was placed
6. A grade of “C” or better in ENG 101 and 102 or ENG 151H and 152H and SPT 206
7. Successful completion of EDU 202 Observations in Education, SE 153, MUS 215, ART 203 or equivalent course with clinical experience
8. A cumulative GPA of 2.75 or better
9. A satisfactory portfolio
10. Missouri Department of Health and Senior Services, Family Care Safety Registry background screening
11. Completion of the Missouri Educator Profile
12. Evidence of successful work with children or youth

## General Regulations Concerning Student Teaching

1. All candidates for the B.S. in Education and Missouri Teacher Certification are required to complete student teaching.
2. Applications for student teaching must be completed the semester prior to student teaching.
3. To qualify for student teaching, candidates must have senior standing or an earned baccalaureate degree.
4. Student teachers must have a minimum cumulative grade point average of 3.0, and a grade point average of 3.0 in the major.
5. The candidate must have a grade of “C” or better in all required major subject area courses and in all required education courses with EDU or SE prefixes.
6. Elementary, Middle School and Special Education majors must have a grade of “C” or better in their required mathematics courses.
7. All students must pass the Missouri Educator Content Area Exam for their area prior to the student teaching semester.
8. Student teaching placements will occur in public schools within 30 miles of Lincoln University. Exceptions to this procedure require Teacher Education Council approval. Each candidate must complete a variety of clinical experiences in diverse schools and communities.

## Technology

Candidates seeking teaching certification are expected to demonstrate the ability to use a variety of instructional technologies including instructional video, computers, telecommunications and interactive media.

## eMINTS

Lincoln University’s Department of Education is the first teacher-preparation institution in the nation to implement eMINTS — enhancing Missouri’s Instructional Networked Teaching Strategies. Teacher education candidates can earn an eMINTS Certificate by completing four courses which may be included in the Instructional Technology Area of Concentration. eMINTS instructional strategies transform classrooms into places for learning where teachers and students use multimedia tools to better understand the world, work together and achieve at new and higher levels. Initial research indicates that eMINTS strategies are effective in closing the achievement gap.

## Course Descriptions

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

### Early Childhood, Elementary and Secondary Education Courses

**EDU 100 CHILD DEVELOPMENT ASSOCIATE CREDENTIAL (CDA). (NC).**  
Child Development Associate Credential course required for 120 hours internship.

- EDU 161 PRINCIPLES OF EARLY CHILDHOOD EDUCATION.** (3). This course introduces the historical, philosophical, psychological and sociological foundations of Early Childhood Education. Students spend 30 hours aiding in infant and toddler settings. Structured observations, focused activities and reflections, and videotapes will be required.
- EDU 201 PRACTICUM WITH THREE- AND FOUR-YEAR OLDS.** (1). Students spend 30 hours working in a preschool or day care setting. Structured activities and student created activities, reflections, and videotapes will be required. Prerequisite: EDU 161 or concurrent enrollment.
- 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 203 PRACTICUM WITH KINDERGARTNERS.** (1). Students spend 30 hours aiding in a kindergarten or kindergarten enrichment classroom. They plan, implement and evaluate lessons and reflect on these lessons. Videotapes of some lessons will be required. Prerequisite: EDU 161 or concurrent enrollment.
- 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 206 HEALTH, SAFETY AND NUTRITION OF THE YOUNG CHILD.** (2). This course introduces the study of good individual and community health practices, basic safety training for young children and nutritional guidelines and practices. It includes a study of the regulations and procedures required for licensure as well as appropriate record keeping and referrals.
- EDU 208 FAMILY AND COMMUNITY RESOURCES.** (3). This course discusses the legislation, legal and advocacy issues, and policy-making related to young children. It explores the relationship between the child, his or her family and the community, focusing on the resources available for young children.
- 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-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). 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 290 CURRICULUM IN EARLY CHILDHOOD EDUCATION.** (3). Students will learn to plan, implement and evaluate lessons in which children can construct new knowledge. They will develop appropriate curriculum that is integrated and imaginative. They will create and manage learning environments for active learning.
- EDU 295 SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION.** (1-5). The study of a topic in early childhood care and education not otherwise included in the curriculum, or for further in-depth research and study with a faculty member. Prerequisite: EDU 161 and expression of mutual interest by the student and faculty. (May be taken more than once.)
- EDU 297 CAPSTONE SEMINAR IN ECE (1)** This course uses a standards-based framework to provide students an opportunity to integrate content knowledge across major courses and reflect on the meaning of professional work. The successful completion of a professional portfolio or other measure of early childhood teacher competency is required.
- 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 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 315 TEACHING MATHEMATICS in the Elementary School.** (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 PSYCHOLOGY OF DEVELOPMENT.** (3). A study of the biosocial, cognitive, and psychosocial development of the child from conception through age 12. Prerequisite: EDU 204.
- EDU 322 ADOLESCENT DEVELOPMENT.** (2). A study of the physical, social, emotional and intellectual development of the child from ages 12 through 20. 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.
- 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 TEACHING HEALTH.** (2). A course emphasizing the materials and methods of teaching health in the schools and the community. Prerequisite: Permission of 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.** (2). Deals with the teaching of physical education in the elementary school setting. Students are required to spend 20 clinical hours working in an elementary school setting. Prerequisite: Permission of instructor.
- EDU 417Q MATERIALS, METHODS AND OBSERVATIONS IN TEACHING PHYSICAL EDUCATION IN THE SECONDARY SCHOOL.** (2). Deals with the teaching of physical education in the secondary school setting. Students are required to spend 20 clinical hours working in a secondary school setting. Prerequisite: Permission of instructor.
- 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 READING.** (3). The purpose of the course is to assist the classroom teacher in assessing the individual reading needs of children. It will examine principles, practices and materials for personalizing instruction on levels K through 8. Prerequisites: EDU 418, EDU 424 and admission to Teacher 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 eMINTS I.** (3). This course introduces students to the eMINTS program. Students become proficient in the areas of constructivism, cooperative learning, and inquiry-based learning.
- EDU 452 eMINTS II.** (3). Students will focus on inquiry-based learning, online learning projects and accessing safe internet resources in constructing technology based lesson plans.
- EDU 453 eMINTS III.** (3). This course will focus on developing webquests, online projects, communication arts, constructivist lesson plans.
- EDU 454 eMINTS IV.** (3). This course will focus on classroom management and interdisciplinary modules. Students will complete their portfolios and websites and prepare projects for student teaching.
- EDU 456 PHOTOGRAPHY FOR TEACHERS.** (3). Focuses on helping teachers create and use photography to strengthen curricular activities.
- 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 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.

### **Special Education**

**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 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 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 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  
hours. Permission of instructor.

## Requirements for the Associate in Applied Science Degree Early Childhood Care and Education

Placement in English/Mathematics courses is determined by ACT/SAT scores.

The total credit hours required for graduation is 64 of which 30 must be completed at Lincoln University to meet the residency requirement.

### AAS in Early Childhood Academic Map (Fall Admission)

First Semester		Hrs	Second Semester		Hrs
ENG 101	Comp. and Rhet. I	3	ENG 102	Comp. and Rhet. II	3
EDU 161	Prin. of Early Child. Education	3	EDU 208	Family & Comm. Resources	3
EDU 206	Health, Safety and Nutrition of Young Children	3	SE 221	Educ. of Except. Child	3
MAT 118	Math Found. For Elem Teachers	3	EDU 201	Pract. w/3s and 4s	1
PSY 101	General Psychology	3	PSC 203	Am. Nat'l Gov't	3
			EDU 270	Instr. Technology	3
<b>TOTAL:</b>		<b>15</b>	<b>TOTAL:</b>		<b>16</b>

Third Semester		Hrs	Fourth Semester		Hrs
SPT 206	Fund. of Speech	3	HIS 206	U.S. History II	3
EDU 260	Educ. & Cult. Diversity	3	EDU 321	Psych. of Development	3
EDU 204	Educ. Psychology	3	EDU 203	Pract. w/Kindergartners	1
BIO 103/104L	Prin. of Biology with Lab	4	EDU 280	Early Literacy	3
EDU 276	Assessing Young Children	3	EDU 285	Program Mgmt. in ECE	3
			EDU 290	Curriculum in ECE	3
			EDU 297	Capstone Seminar in ECE	1
<b>TOTAL:</b>		<b>16</b>	<b>TOTAL:</b>		<b>17</b>

**B.S.ED. Art Education**  
**Academic Map (Fall Admission)**  
**06/18/2015**

Semester 1		Hrs.	Semester 2		Hrs.
GE101	University Seminar	1	ENG 102	English II	3
ENG 101	English I	3	HIST 101	World Civ I	3
MATH 113	College Algebra - ACT score determines math placement	3	PED	Activity PE	1
PED 111	Pers & Com Health	2	BIO 103/BIO 104L	Prin. Of Biology w/lab	4
PSY 101	Gen Psychology	3	ART 104	Theory of Design & Color	3
ART 107	Drawing I	3	ART 108	Drawing II	3
<b>TOTAL:</b>		<b>15</b>	<b>TOTAL:</b>		<b>17</b>

Semester 3		Hrs.	Semester 4		Hrs.
ART 207	Basic Commercial Design	3	SPT 209 or MUS 200	Intro to Theatre or World of Music	3
ART 322	Painting I	3	PSC 203	American National Government	3
SA 202 or SA 201	Intro to Sociology or Intro to Anthropology	3	ART 208	Watercolor	3
SPT 206	Fund of Speech	3	ART 308	Ceramics I	3
BIO 103 or PHY 103	Principles of Biology or Earth Science		ART 323	Painting II	3
PSC 203	Am National Government	3	EDU 250	Prof. Educ. Legal/Ethical Issues	3
EDU 260	Educ. and Cultural Diversity	3			
	<b>MOGEA should be taken at end</b>				
<b>TOTAL:</b>		<b>18</b>	<b>TOTAL:</b>		<b>18</b>

Semester 5		Hrs.	Semester 6		Hrs.
EDU 204	Education Psychology	3	EDU 320	Assessment and Data Driven	3
SE 221	Exceptional Child	3	ART 309	Ceramics II	3
EDU 321	Psych. Of Development	3	ART 208	Watercolor Painting	3
ART 203	Elem. Art Edu & Obs	3	ART 310	Printmaking	3
ART 330	Art His & Appreciation	3	EDU 420	Reading in the Content Field	3
EDU 317	Differentiated Instruction	3	ART 422	Sculpture	3
<b>TOTAL:</b>	<b>MEP should be taken</b>	<b>18</b>	<b>TOTAL:</b>		<b>18</b>

Semester 7		Hrs.	Semester 8		Hrs.
EDU 435	Classroom Management	3	EDU 476	Student Teaching-Elem	5
EDU 316	Techniques in Teaching	3	EDU 477	Student Teaching-Sec	5
EDU 305	Pract. In Classroom Assessment	1	EDU 475	Seminar	2
EDU 417A	Mat Math Teaching Art	2			
ART 423	Adv Tech Problems	3			
ART 421	Figure Painting	3			
<b>TOTAL:</b>		<b>15</b>	<b>TOTAL:</b>		<b>12</b>

Symbol Guide

*Writing Intensive Gen Ed. Hours:	#Field Experience Education Hours:	+Online Course Total Hours:	§Hybrid Course	&8-week Course
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## Requirements for the B.S.Ed. in Elementary Education

Successful completion of the courses listed below will entitle a person to receive the degree B.S. Ed. with a major in Elementary Education and will lead to a Missouri certificate to teach grades 1-6 in the State of Missouri.

Placement in English/Mathematics courses is determined by ACT/SAT scores.

### B.S. Ed. in Elementary Education Academic Map (Fall Admission)

Freshman First Semester		Hrs.	Freshman Second Semester		Hrs.
GE 101	University Seminar	1	ENG 102	Comp. and Rhet. II	3
PE 1XX	P.E. Activity	1	HIS 102	World Civ. II	3
ENG 101	Comp. and Rhet. I	3	MUS 200	World of Music	3
ART 100	Introduction to Art	3	PSC 203	Am. Nat'l Gov't	3
MAT 119	ACT score determines math placement	3	ENV/PH Y 103	Env. or Earth Science	3
PSY 101	General Psychology	3			
<b>TOTAL:</b>		<b>14</b>	<b>TOTAL:</b>		<b>15</b>

Sophomore Third Semester		Hrs.	Sophomore Fourth Semester		Hrs.
SPT 206	Fund. of Speech	3	HIS 206	U.S. History II	3
SA 200	American Diversity or other diversity option	3	EDU 260	Educ. and Cultural Diversity	3
ECO 201	Macroeconomics	3	EDU 202	Obs. in Education	1
BIO 103/104L	Prin. of Biology with Lab	4	EDU 251	Prof. Educator Legal/Ethical Issues	3
EDU 256	Lit for Child. & Adol.	3	EDU 204	Educ. Psychology	3
	MOGEA should be taken at end		EDU 451	eMINTS I	3
<b>TOTAL:</b>		<b>16</b>	<b>TOTAL:</b>		<b>16</b>

Junior Fifth Semester		Hrs.	Junior Sixth Semester		Hrs.
SE 221	Educ. Except. Child	3	EDU 418	Literacy in Elem. Grades	4
EDU 317	Differentiated Instr.	3	EDU 424	Pract. Rdg & Lang. Arts	2
SE 350	Lang. Acquisition	3	EDU 323	Tchg Writing Workshop	2
EDU 321	Psych. of Development	3	EDU 325	Assessment & Data Driven	3
EDU 316	Techniques in Tchg.	3	EDU 315	Tchg Math in Elem. School	3
	MEP should be taken		PED 111	Personal and Comm. Health	2
<b>TOTAL:</b>		<b>15</b>	<b>TOTAL:</b>		<b>16</b>

Senior Seventh Semester			Hrs.	Senior Eighth Semester			Hrs.
EDU 425	Assess. in Rdg	3		EDU 471	Student Teaching	10	
EDU 427	Assess. in Math	3		EDU 475	Seminar in Student Tchg.	2	
EDU 423	Instr. Strategies in Science	3					
EDU 324	Instr. Strategies. in SS	3					
EDU 302	Pract. in Elem. Ed.	1					
EDU 435	Classroom Mgt.	3					
<b>TOTAL:</b>			<b>16</b>	<b>TOTAL:</b>			<b>12</b>

## Requirements for the B.S.Ed. in Special Education

Successful completion of the courses listed below will entitle a person to receive the B.S.Ed. degree with a major in Special Education and Missouri certification in Elementary Education (1-6) and certification in Cross Categorical Special Education (K-12).

Placement in English/Mathematics courses is determined by ACT/SAT scores.

### B.S.Ed. in Special Education Academic Map (Fall Admission)

Freshman First Semester		Hrs.	Freshman Second Semester		Hrs.
GE 101	University Seminar	1	ENG 102	Comp. and Rhet. II	3
PE 111	Personal & Community Health	2	HIS 102	World Civ. II	3
ENG 101	Comp. and Rhet. I	3	MUS 200	World of Music	3
ART 100	Introduction to Art	3	PSC 203	American Nat'l Gov't	3
MAT 119	ACT score determines math placement	3	PHY 103	Earth Science	3
PSY 101	General Psychology	3			
<b>TOTAL:</b>		<b>15</b>	<b>TOTAL:</b>		<b>15</b>

Sophomore Third Semester		Hrs.	Sophomore Fourth Semester		Hrs.
SPT 206	Fund. of Speech	3	HIS 206	U.S. History II	3
SA 200	American Diversity or other diversity option	3	EDU 260	Educ. and Cultural Diversity	3
ECO 201	Macroeconomics	3	EDU 202	Observations in Education	1
BIO 103/104L	Prin. of Biology with Lab	4	EDU 204	Educ. Psychology	3
SE 221	Educ. of the Except. Child	3	EDU 451	eMINTS I	3
	MOGEA should be taken at end		EDU 316	Techniques of Teaching	3
<b>TOTAL:</b>		<b>16</b>	<b>TOTAL:</b>		<b>16</b>

Junior Fifth Semester		Hrs.	Junior Sixth Semester		Hrs.
SE 415	Content Meth. for Sp. Ed.	3	EDU 418	Literacy in Elem. Grades	4
EDU 317	Differentiated Instr.	3	EDU 424	Pract. Rdg & Lang. Arts	2
SE 350	Lang. Acquisition	3	EDU 323	Tchg Writing Workshop	2
EDU 321	Psych. of Development	3	EDU 325	Assessment & Data Driven	3
EDU 256	Lit for Children & Adolescent	3	EDU 315	Tchg Math in Elem. School	3
EDU 251	Prof. Ed. Legal & Ethics Issues	3	PED 1XX	P.E. Activity	1
	MEP should be taken				
<b>TOTAL:</b>		<b>18</b>	<b>TOTAL:</b>		<b>15</b>

Senior Seventh Semester		Hrs.	Senior Eighth Semester		Hrs.
EDU 425	Assess. in Rdg	3	SE 493	Student Teaching K-12 mild/moderate cross- categorical	10
EDU 427	Assess. in Math	3	EDU 475	Seminar in Student Tchg.	2
SE 404	Eval. Of Ability & Achievement	3			
SE 414	Special Education Process	3			
EDU 302	Practicum in Elem. Ed.	1			
SE 432	Classroom/Behavior Mgt.	3			
<b>TOTAL:</b>		<b>16</b>	<b>TOTAL:</b>		<b>12</b>

## Requirements for Middle School Education Certifications

Successful completion of the courses listed below will entitle a person to receive the degree B.S.Ed. with a major in Middle School Education and will lead to a Missouri certificate to teach grades 5-9.

Placement in English/Mathematics courses is determined by ACT/SAT scores.

### B.S.Ed. in Middle School Education Academic Map (Fall Admission)

Freshman First Semester		Hrs.	Freshman Second Semester		Hrs.
GE 101	University Seminar	1	ENG 102	Comp. and Rhet. II	3
PED 111	Pers. & Comm. Health	2	HIS 102	World Civ. II	3
ENG 101	Comp. and Rhet. I	3	PSC 203	Am. Nat'l Gov't	3
MAT 118/119/120	ACT score determines math placement	3	ENV 103 PHY 103	Environmental or Earth Science	3
PSY 101	General Psychology	3		Content Area Course	3
	Content Area Course	3			
<b>TOTAL:</b>		<b>15</b>	<b>TOTAL:</b>		<b>15</b>

Sophomore Third Semester		Hrs.	Sophomore Fourth Semester		Hrs.
SPT 206	Fund. of Speech	3	HIS 206	U.S. History II	3
SA 200	American Diversity or other diversity option	3	EDU 260	Educ. and Cultural Diversity	3
SA 201, 202 SOC 301 or ECO 201	Sociology, Anthropology The Family Macroeconomics	3	EDU 202	Observation in Education	1
BIO 103 104L	Prin. of Biology with Lab	4	EDU 251	Prof. Educ. Legal/Ethical Issues	3
	Content Area Course	3	EDU 204	Educ. Psychology	3
	MOGEA should be taken at end			Content Area Course	3
<b>TOTAL:</b>		<b>16</b>	<b>TOTAL:</b>		<b>16</b>

Junior Fifth Semester		Hrs.	Junior Sixth Semester		Hrs.
SE 221	Educ. Except. Child	3	EDU 460	Middle School Found.	4
EDU 317	Differentiated Instr.	3	EDU 417	Methods in Content Field	2
ART, MUS, SPT, ENG or PHI	Art, music, theater appreciation or literature or philosophy	3	EDU 420	Reading in the Content Field	2
EDU 322	Adol. Development	3	EDU 325	Assess. & Data Driven	3
EDU 316	Techniques in Tchg.	3	ART, MUS, SPT, ENG or PHI	Art, music, theater appreciation or literature or philosophy	2

	Content Area Course	3		Content Area Course	3
	MEP should be taken				
<b>TOTAL</b>		<b>18</b>	<b>TOTAL:</b>		<b>16</b>

Senior Seventh Semester		Hrs.	Senior Eighth Semester		Hrs.
EDU 416	Rdg/Wrtg. in Middle School	3	EDU 471	Student Teaching	10
PED 1XX	P.E. Activity	1	EDU 475	Seminar in Student Tchg.	2
EDU 304	Pract. in Sec Ed.	1			
EDU 435	Classroom Mgt.	3			
	Content Area Course	3			
	Content Area Course	3			
<b>TOTAL:</b>		<b>14</b>	<b>TOTAL:</b>		<b>12</b>

One content area must be chosen. Students may count courses taken as part of their General Education Requirement to fulfil the subject area course requirements, but the course credit only counts once. Students counting multiple courses in both their Gen Ed and Subject Area will fall short of the 120 credits necessary for graduation so will need to add additional education or subject area electives to meet the 120 hour minimum. Students should work with their advisor to insure they meet university and state requirements. Subject area course requirements are as follows:

#### Science for the Middle School

_____	BIO 103	Principles of Biology *	3
_____	BIO 104L	Principles of Biology Lab *	1
_____	CHM 103	Gen & App Chemistry *	3
_____	CHM 104L	Gen & App Chemistry Lab *	1
_____	PHY 103	Earth Science *	3
_____	PHY 104L	Earth Science Lab *	1
_____	PHY 105	Astronomy*	3
_____	PHY 106L	Astronomy Lab*	1
_____	PHY 101	College Physics I	4
_____	PHY 102	College Physics II	4
_____	BIO 400	Ecology	3
	Additional Upper Division Science electives		<u>4</u>
	Total		23

#### Social Studies for the Middle School

_____	HIS 101	World Civilization I *	3
_____	HIS 102	World Civilization II *	3
_____	HIS 205	American History I *	3
_____	HIS 206	American History II *	3
_____	GEO XXX	Any Geography class	3
_____	ECO 201	Macroeconomics*	3
	OR		
_____	HIS 405	Economic History of the U.S.	3
	Additional Upper Division History electives		<u>9</u>
	(2 courses in American History and 1 course in		

European History or 2 courses in European History  
and 1 course American History)

Total 21

### Language Arts Middle School

_____	ENG 300	Intro to Drama and Non-Fiction	3
_____	ENG 301	Intro to Poetry and Fiction	3
_____	ENG 320	Masterpieces of World Lit.*	3
	OR		
_____	ENG 416	African American Literature*	3
_____	ENG 307	Survey of American Literature*	3
_____	ENG 490	Problems in Tchg of Writing	3
_____	ENG 310	Survey of English Literature I*	3
_____	ENG 311	Survey of English Literature II*	<u>3</u>
	Total		21

### Mathematics for the Middle School

_____	MAT 117	Elementary Statistics*	3
_____	MAT 119	Geo & Statistics for Elem Ed*	3
_____	MAT 121	Pre-Calculus*	5
_____	MAT 123	Calculus I*	5
_____	MAT 302	Elements of Geometry	3
	Or		
_____	MAT 407	Modern Geometry	3
_____	MAT 315	Techniques of Math Proofs	3
_____	MAT 406	History of Math	<u>3</u>
	Total		25

### Middle School Business Education

_____	BED 208	Integrated Keyboarding App	3
	Or		
	CS 105	Bus App for Microcomp	3
_____	BAD 101	Intro to Business	3
_____	BAD 250	Personal Finance	3
_____	ECO 201	Principles of Economics*	3
_____	BAD 275	Business Law I	3
_____	BAD 310	Principles of Management	3
_____	MKT 321	Principles of Marketing	3
_____	BED 312	Business Communications	<u>3</u>
	Total		24

\*These courses may satisfy general education requirements, but can count as credit toward the 120 credit total only once. If used to fulfill a general education, must add electives in either education or content area to meet the 120 minimum.

## Secondary Education Certification Requirements

This curriculum prepares prospective teachers for positions in Missouri secondary schools. Candidates must successfully fulfill all certification requirements for the major in the approved subject matter teaching field and satisfy the professional education course requirements for certification.

In addition to the above listed requirements, prospective teachers are required to fulfill all General Education requirements unique to those seeking certification in the state of Missouri. These requirements are available from the major department and the Department of Education.

## Secondary Education Professional Requirements

The Professional Education courses required for all secondary certification areas in the state of Missouri are listed below. Additional education courses may be required for some majors. See an advisor and/or Department of Education contact person for prerequisites and admission procedures to the Education Program for all Blocks. All Professional Education courses must be completed prior to Student Teaching.

### Fourth Semester

These courses are to be taken concurrently.

PSY 101 and ENG 101 are prerequisites

EDU 202	Observations in Education	1
EDU 204	Educational Psychology (WI)	3
SE 221	Education of the Exceptional Child	2

\* Art Majors take ART 203 (3 hrs.) instead of EDU 202

\* All Music Majors take MUS 215 and MUS 403 instead of EDU 202

### Fifth Semester

EDU 270	Instructional Technology	<u>or</u>	3
EDU 451	eMINTS		
EDU 322	Adolescent Development		2
EDU 406	School and Society		3

To register for the following courses the candidates must be admitted to the Teacher Education Program.

### Sixth Semester

EDU 316	Techniques of Teaching	3
EDU 420	Teaching Reading in the Content Fields	3

### Seventh Semester

EDU 304/305	Paraprofessional Training	2
EDU 417	M/M/O	2-3
EDU 435	Classroom Management	3

\*All Music Majors take MUS 215 and MUS 403 instead of EDU 304

\*All Music Majors take MUS 303 and MUS 304 instead of EDU 417

### Eighth Semester

Student Teaching	10
EDU 475 Student Teaching Seminar	2



# Middle School Endorsement

Elementary education majors may add a middle school endorsement covering grades 5-9 by taking the following education classes.

EDU 322	Adolescent Development	2
EDU 417	Materials, Methods, and Observations in Teaching (English, math, science, business or social studies)	2-3
EDU 420	Techniques of Teaching Reading in the Content Fields	3
EDU 460	Middle School Foundations (Philosophy, Organization and Curriculum)	4
EDU 461	Middle School Curriculum and Instruction	3

Additional course work in English, math, science, business or social studies may be required. Students should see an education advisor for a complete list of course requirements.

Secondary education majors in the certification areas of English, math, science or social studies may add a middle school endorsement covering grades 5-9 by taking the following education classes.

EDU 416	Reading and Writing in the Middle School	4
EDU 460	Middle School Foundations (Philosophy, Organization and Curriculum)	4
EDU 320	Assessment and Data Driven Decision Making	3

Additional course work in English, math, science or social studies may be required. Candidates should see an education advisor for a complete list of course requirements.

These are Professional Block courses and may only be taken after the student has been admitted to the Teacher Education Program.

# Education Minor

A minor in education is offered for students majoring in a field other than education. Students who take a minor in education will not be able to gain certification unless they decide later to be formally admitted to Teacher Education and complete all degree requirements. However, many of the education courses for a minor may eventually apply toward a teaching certificate. This minor will benefit anyone interested in future involvement in education as a parent, school board member, etc. All interested students should contact the Department of Education. There are two options for a minor in education, elementary or secondary emphasis.

## Option A: Elementary Emphasis (Total 22 credits)

### Required Courses

EDU 202	Observations in Education	1
EDU 204	Educational Psychology	3
SE 221	Education of Exceptional Children	3
EDU 321	Psychology of Development	3
EDU 256	Literature for Children and Adolescents	3
EDU 260	Education and Cultural Diversity	3
EDU 270	Instructional Technology <u>or</u>	3
EDU 451	eMINTS	

Electives	4 hours credit in an upper division Education course	<u>4</u>
		<b>22</b>

Candidate's selection of elective elementary education courses must have the approval of the Department Head.

**Option B: Secondary Emphasis** (Total 22 credits)

**Required Courses**

EDU 202	Observations in Education	1
EDU 204	Educational Psychology	3
SE 221	Education of Exceptional Children	3
EDU 322	Adolescent Development	2
EDU 256	Literature for Children and Adolescents	3
EDU 260	Education and Cultural Diversity	3
EDU 270	Instructional Technology <b>or</b>	3
EDU 451	eMINTS	
Electives	5 hours credit in an upper division Education course	<u>5</u>
		<b>22</b>

Candidates selection of elective secondary education courses must have the approval of the Department Head.

**Special Education Minor**

**A Minor in Special Education** requires a minimum grade of "C" earned in 21 credit hours of Special Education courses. Approved courses include:

SE 153	Practicum in Special Education	1
SE 154	Practicum in Special Education	2
SE 221	Education of Exceptional Children *	3
SE 350	Language Development	3
SE 404	Assessment of Abilities & Achievement **	3
SE 408	Reading Assessment and Intervention for Exceptional Students**	3
SE 409	Teaching Math to Exceptional Students**	1
SE 410	Consultation and Counseling Techniques for Teachers	3
SE 411	Methods and Materials: Mild/Moderate Disabilities**	3
SE 412	Career Education/Transition	3
SE 413	Introduction to Cross Categorical *	3
SE 432	Behavior Management Principles and Techniques**	3
SE 438/439	Seminar in Special Education Topics (May be repeated)	1-3
SE 450	Advanced Practicum in Special Education	1-2
SE 451	Advanced Practicum in Methods and Materials**	1
SE 452	Advanced Practicum in Math for Exceptional Learners**	1

\* These courses are required for all Special Education Minors

\*\* These courses require admission to the Teacher Education Program

# **HEALTH AND PHYSICAL EDUCATION PROGRAM**

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## **DEPARTMENT OF EDUCATION**

Professor: Kern  
Instructor: Moseley

### **General Education Program**

Lincoln University has chosen to include an Institutional General Education Requirement in Lifetime Wellness of 3 credit hours in the area of Health and Physical Education. This requirement includes 2 credit hours of Personal and Community Health and 1 credit hour in Physical Education Activity. Only 100 level PED activity courses will satisfy the Area 9 activity requirements.

### **Mission**

The mission of the general education curriculum in the Health and Physical Education Program is to provide students with the knowledge and skills necessary to promote Lifetime Wellness.

### **Objectives**

The specific objectives of the Health and Physical Education Program are to ensure that students graduating meet the following competencies.

The students will be able to

1. understand why and how they can protect and improve their personal health and the health of their community
2. understand the functions and interrelatedness of the physical, mental, emotional, social, spiritual, environmental, and societal dimensions of wellness
3. develop an appreciation for lifetime wellness activities by fully engaging in an activity of their choice
4. acquire/develop knowledge and skills needed for enhancing their quality of life
5. demonstrate responsibility for their well being

Physical education activity courses are classified into Fitness Activities or Lifetime Activities. Fitness Activities are courses designed to improve physical fitness during the time frame in which the class is offered. Lifetime Activities are courses designed as introductory classes to develop skills in order for students to enjoy the activity throughout their lives.

Students with physical limitations should consult with the Chair of the Department of Education prior to enrolling in physical education activity courses. Appropriate courses for these students will be determined on an individual basis.

## Course Descriptions

Listed courses may not be taught every semester or every year. Physical Education area advisors have information about projected course offerings for a semester/year.

### Course to Fulfill Health Requirement

- PED 111 PERSONAL AND COMMUNITY HEALTH.** (2). Promotes attitudes, habits, skills, and values leading to happy, efficient and healthy living. Develops understanding of why and how to protect and promote personal health and a healthy world community.

### Courses to Fulfill Activity Requirement

#### Fitness Activities

- 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.

#### Lifetime Activities

- PED 150 SWIMMING.** (1). For non-swimmers. Emphasis on personal adjustment to the water, basic strokes and fundamentals of water safety.
- 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.

## **Professional Health and Physical Education Programs**

### **Mission**

The mission of the Health and Physical Education Program is to prepare professionals who are knowledgeable, passionate (about students, content, and teaching), and committed to providing the highest quality education for every one of their students.

The Health and Physical Education faculty will provide opportunities to expand our students' experiences with and understanding of diverse populations and settings, to help them develop their gifts and talents, to challenge their intellects, to help them become reflective practitioners, and to prepare them for the responsibility and the trust that will be placed in their hands as teachers and other professionals within the schools.

In order to fulfill this mission, the Health and Physical Education Program commits itself to honoring Lincoln University's historic mission, and to providing its students with Council for the Accreditation of Educator Programs (CAEP) accredited programs that incorporate small class size, supportive faculty, up-to-date instruction (including technology), and extensive experiences in schools integrated throughout its programs.

### **Degrees Offered**

Bachelor of Science in Education with a major in Physical Education

The Bachelor of Science in Education degree with a major in Physical Education is awarded to students who complete the Physical Education Teacher Education curriculum, as well as required courses in the Lincoln University Department of Education, and required General Education courses. The Physical Education Teacher Education curriculum is designed to provide (a) quality professional preparation for entry-level Physical Education teaching positions, and (b) educational experiences that enable undergraduates to successfully compete for admission to graduate programs.

The Physical Education Teacher Education curriculum is approved by the Council for the Accreditation of Educators Programs (CAEP) and the Missouri Department of Elementary and Secondary Education (DESE).

Students prepare to teach physical education in grades K-12. The systematic study of teaching and learning theory is accompanied by supervised laboratory and practicum

experiences where theoretical concepts can be applied in face-to-face interactions with pupils.

The Physical Education Teacher Education curriculum addresses the intellectual, social, emotional and physical dimensions of self as they relate to physical activity. It places emphasis on the health enhancement and wellness aspects of human movement arts and sciences. Focus of the curriculum on wellness as a value in life enhances critical thinking, decision making, and problem solving skills regarding healthy lifestyles.

## **Objectives and Assessment**

**Objective 1.** Students demonstrate knowledge of human movement from historical, philosophical, sociological, psychological, and biomechanical perspectives as follows:

- PRAXIS II exit examination

- Assessments embedded in course work

**Objective 2.** Students demonstrate proficiency in a variety of movement forms by performing skills competency tests as part of the requirements for PEP 3784.

**Objective 3.** Students demonstrate they have designed and implemented an appropriate individual physical fitness program through the following assignments.

- Physical fitness profile (PEP 201)

- Individual fitness program (PEP 201)

- Nutrition analysis (PEP 201)

**Objective 4.** Students demonstrate attributes which identify a physical educator as a professional as follows:

- Professional resume (PEP 200)

- Student Teaching Dispositions Assessments

- Three faculty recommendations required for admission to Teacher Education program

**Objective 5.** Students demonstrate appropriate and effective planning, implementation, and evaluation as they teach movement arts and sciences to a diverse student population in the following ways:

- Teaching assignments, including lesson plans and videotapes of their teaching with peers and/or school children (EDU 417P, 417Q, PEP 410)

- Student teaching evaluations

## **Requirements for Certification in Physical Education K-12**

Lincoln University General Education Requirements:

- Area 1: Communications skills (9 hours)

- Area 2: Mathematics skills (3 hours)

  - MAT 117 recommended

- Area 3: Personal and Community Health (2 hours)

- Area 4: Life and Physical Sciences (7 hours)

  - One biology course and one physical science course recommended

- Area 5: Social and Behavioral Sciences (15 hours)

  - Area 5A United States and Missouri Constitution requirement (6 hours)

  - Area 5B International History requirement (3 hours)

	Area 5C Psychology requirement (3 hours)
	Area 5D Sociology/Economics requirement (3 hours)
Area 6:	Humanities and Fine Arts (6 hours)
Area 7:	American Cultural Diversity (3 hours)
Area 8:	International Cultural Diversity (3 hours)
Area 9:	Lifetime Wellness Skills (1 hour)
Area 10:	General Education Skills (1 hour)

PEP 200, 201, 205, 301, , 307, 312, 320, 350, 360, 372, , 378, 379, 380, 381, \*406, 410 and 420.

\*Note: PEP 406 is the designated writing intensive course for Physical Education Teacher Education.

EDU 202, 204, 322, 417P, 417Q, 420, 475, 476, 477 and SE 221.

A program leading to K-12 certification requires 124 credit hours.

## Minor in Physical Education

For students seeking a K-9 minor to complete their elementary teacher certification, a grade of “C” or better in the following courses (22 credit hours) is required for completion of an Elementary Physical Education minor: PEP 200, 201, 205, 301, 350, 372, 406, 420, and EDU 417P. Student teaching (EDU 476) is required for certification in physical education.

## Course Descriptions

Listed courses may not be taught every semester or every year. Physical Education area advisors have information about projected course offerings for a semester/year.

- PEP 200 FOUNDATIONS OF PHYSICAL EDUCATION AND WELLNESS.** (2, fa, sp). Introduction to physical education and wellness. Topics may include history, philosophy, scientific principles, goals and objectives, leadership and related career opportunities in physical education and wellness.
- PEP 201 NUTRITION, FITNESS AND CONDITIONING.** (3, fa, sp). Introduction to theories, concepts, principles, assessments, modes, and training techniques underlying the development of fitness and wellness. Includes a laboratory component. Prerequisite:-
- PEP 205 CPR/SAFETY AND FIRST AID.** (2, fa, sp). Provides knowledge/skill techniques in basic first aid, personal safety, and athletic injuries. Meets requirement of American Red Cross certification for First Aid and Adult/Child CPR. Requires students to serve in the athletic training room as a lab.
- PEP 210 PHYSICAL EDUCATION FOR THE ELEMENTARY CLASSROOM TEACHER.** (1, fa). 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.

- PEP 301 KINESIOLOGY.** (3, sp). 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.
- PEP 312 MOTOR LEARNING.** (2, fa). 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 307 PSYCHOLOGICAL/SOCIOLOGICAL ASPECTS OF PHYSICAL EDUCATION.** (3, sp) 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
- PEP 320 ASSESSMENT IN PHYSICAL EDUCATION.** (3 2, every third semester,). Basic measurement and evaluation theory and application to appropriate selection, construction, administration, and interpretation of measurement/evaluation instruments for physical education with emphasis on alternative and authentic assessment. Prerequisites: grade of “C” or better in PEP 200-
- PEP 350 BASIC PHYSICAL EDUCATION METHODOLOGY.** (1, fa). This course deals with the development of methodology used in physical education in K-12 public school settings. Prerequisite: PEP 200 and at least sophomore standing (30 credit hours).
- PEP 360 EXERCISE PHYSIOLOGY.** (3, fa). A study of cardiovascular, pulmonary and muscular systems as they relate to dynamics of exercise. Prerequisites: grade of “C” or better in PEP 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 Movement and Rhythms .** (3, every third semester). 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. Prerequisite. Includes 10 clinical hours in K-12
- PEP 378 INSTRUCTION AND ANALYSIS IN LIFETIME ACTIVITIES AND DANCE** (3), every third semester. 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.
- PEP 379 INSTRUCTION AND ANALYSIS OF INDIVIDUAL AND TEAM SPORTS** (3, every third semester). 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 10 clinical hours in K-12.



- PEP 380 CARE OF ACTIVITY/SPORT INJURIES – UPPER BODY.** (2, sp)  
Lecture, demonstration and practice of the techniques used in the care and prevention of athletic injuries on the upper body.
- PEP 381 CARE OF ACTIVITY/SPORT INJURIES – LOWER BODY.** (2, fa)  
Lecture, demonstration and practice of the techniques used in the care and prevention of athletic injuries on the lower body.
- PEP 406 CURRICULUM DESIGN IN PHYSICAL EDUCATION.** (2, every third semester). Introduction to curriculum and program design covering all facets of physical education in the public school setting. This course designated writing intensive. Prerequisite: Consent of instructor, grade of “C” or better in EDU 417P or 417Q ,
- PEP 410 PHYSICAL EDUCATION STANDARDS, LAW AND MANAGEMENT.** (3, every third semester). Prepares Physical Education Teacher Education candidates to successfully complete Teacher Education portfolio requirements. Includes
- PEP 420 ADAPTED PHYSICAL EDUCATION.** (3, every third semester). Designed to prepare physical education generalists with knowledge and skills needed to plan and implement appropriate physical education programs for individuals having special needs. Prerequisites: grade of “C” or better in PEP 200, 201, 311 and 350.
- 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.

**B.S.Ed. in Physical Education**  
**Academic Map (Fall Admission)**

<b>Freshman First Semester</b>		<b>Hrs.</b>	<b>Freshman Second Semester</b>		<b>Hrs.</b>
GE 101	University Seminar	1	ENG 102	Comp. and Rhet. II	3
PEP 200	Found. of PE	2	MAT 112/113	App. or College Algebra	3
ENG 101	Comp. and Rhet. I	3	BIO 103	Prin. of Biology	3
PEP 205	CPR, Safety and First Aid	2	BIO 104L	Prin. of Biology Lab	1
PED 1XX	PE Activity	1	EDU 260	Educ. and Cultural Diversity	3
PEP 201	Nut., Fit. & Exercise	3	PED 111	Pers. & Comm. Health	2
PSY 101	General Psychology	3			
<b>TOTAL:</b>		<b>15</b>	<b>TOTAL:</b>		<b>15</b>

<b>Sophomore Third Semester</b>		<b>Hrs.</b>	<b>Sophomore Fourth Semester</b>		<b>Hrs.</b>
SPT 206	Fund. of Speech	3	PEP 301	Kinesiology	3
SA 200	Am. Diversity or other diversity option	3	EDU 204	Educ. Psychology	3
PEP 312	Motor Learning	3	EDU 202	Obs. in Education	1
BIO 208 209L	Human Anat. & Phys. with lab	5	PEP 375 PEP 378 PEP 379	I/A Movement/Rhythms <b>or</b> I/A Lifetime Act./Dance <b>or</b> I/A Ind. & Team Sports	3
SA 201, 202 SOC 301 or ECO 201	Intro. to Soc/Anthro, The Family or Macroeconomics	3	SE 221	Educ. of Except. Child	3
			PEP 307	Psy./Soc. of Phys. Activity	3
			PE 350	Basic P.E. Method.	1
<b>TOTAL:</b>		<b>17</b>	<b>TOTAL:</b>		<b>17</b>

<b>Junior Fifth Semester</b>		<b>Hrs.</b>	<b>Junior Sixth Semester</b>		<b>Hrs.</b>
PEP 360	Exercise Physiology	3	HIS 102	World Civ. II	3
PEP 381	Sports Inj. – Lower Body	2	PEP 380	Sports Inj. – Upper Body	2
PEP 410 PEP 406 PEP 420	P.E. Stand Law Mgt. <b>or</b> Curric. Design in PE <b>or</b> Adapted PE	2/3	PEP 410 PEP 406 PEP 420	P.E. Stand Law Mgt. <b>or</b> Curric. Design in PE <b>or</b> Adapted PE	2/3
PEP 320 EDU 417P EDU 417Q	Psych. of Dev. <b>or</b> M/M/O: Elem. <b>or</b> M/M/O Sec.	3	PEP 320 EDU 417P EDU 417Q	Psych. of Dev. <b>or</b> M/M/O: Elem. <b>or</b> M/M/O Sec.	3
PEP 372 PEP 378 PEP 379	I/A Mov./Rhythms <b>or</b> I/A Lifetime Act./Dance <b>or</b> I/A Ind. & Team Sports	3	ART, MUS, SPT or ENG	Art, music, theater appreciation, literature or philosophy	3

			PHI		
ART, MUS, SPT or ENG PHI	Art, music, theater appreciation, literature or philosophy	3	EDU 322	Adol. Development	2
<b>TOTAL:</b>		<b>16/ 17</b>	<b>TOTAL:</b>		<b>15/ 16</b>

Senior Seventh Semester		Hrs.	Senior Eighth Semester		Hrs.
HIS 205 PSC 203	U.S. History II or Am. Nat'l Gov't	3	EDU 475	Sem. in Student Tchg.	2
PEP 320 EDU 417P EDU 417Q	Assess in PE <b>or</b> M/M/O: Elementary <b>or</b> M/M/O Secondary	3	EDU 476 EDU 477	Student Tchg. Elem. Student Tchg. Sec.	5 5
PEP 410 PEP 406 PEP 420	PE Stand. Law Mgt. <b>or</b> Curric. Design in PE <b>or</b> Adapted P.E.	2/3			
PEP 372 PEP 378 PEP 379	I/A Mov./Rhythms <b>or</b> I/A Lifetime Act./Dance <b>or</b> I/A Ind. & Team Sports	3			
EDU 420	Tchg. Rdg in Content Area	3			
<b>TOTAL:</b>		<b>14/ 15</b>	<b>TOTAL:</b>		<b>12</b>

## Health Certification

### *Certification Requirements for Teachers of Health Education in Missouri (Revised 1997)*

Certification to teach Health in the public schools of Missouri can be obtained from DESE by supplementing teaching degree programs in Education with courses in the following areas:

	PK-9	9-12	PK-12
1 Human Anatomy and Physiology (BIO 208 or PEP 301 and PEP 360)	3	3	3
2 Nutrition (AGR 303A)	3	3	3
3 Drug Education (PED 413)	2	2	2
4 Personal Health (PED 111)	2	2	2
5 Mental Health (PED 414 or PSY 202)	2	2	2
6 Family Life/Sex Education (SOC 301 or PED 413)	3	3	3
7 Safety and First Aid (PEP 205)	2	2	2
8 Community Health (PED 411)	2	2	2
9 Methods in Health PK-9 (EDU 417H)	2	0	2
10 Electives in Health (SOC 406, SOC 409, PEP 201)	<u>1</u>	<u>12</u>	<u>12</u>
<i>Total Credit Hours</i>	22	31	33

### **Minor in Health Education for Elementary Education Majors**

The Health and Physical Education Program in the Department of Education offers a minor in Health Education for Elementary Education majors consisting of 21 hours from the PK-9 list of subject areas for teacher certification in Health. The above list of courses satisfies these state requirements for certification, and obtaining a “C” or better in the respective topic area courses will fulfill a minor in Health Education. We don’t have this minor anymore do we?

## **Objectives**

Students will:

1. be able to deliver to an elementary classroom comprehensive health instruction, including, specifically, drug and alcohol abuse prevention education and AIDS prevention education.

2. develop an understanding of Missouri's Coordinated School Health Program and the Center for Disease Control and Prevention's definition of Comprehensive School Health Instruction.
3. develop an understanding of why and how they can protect and improve their personal health and the health of their communities.
4. understand the functions and interrelationship of the physical, mental, emotional, social, spiritual, environmental, and societal dimensions of wellness and develop an appreciation for lifetime wellness activities.

## Course Descriptions

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

- PED 411 SCHOOL AND COMMUNITY HEALTH.** (2, fa, even). Teachers' roles in promoting health and preventing disease through Comprehensive School Health Program. Integrating health into the classroom. Maximizing community resources. Required for Wellness majors also.
- PED 412 SEX EDUCATION.** (2, sp, even). Course focuses on public issues surrounding human sexuality. Human reproductive anatomy and physiology, intimate behaviors, promotion and prevention of reproduction and disease, and social issues are included in the content.
- PED 413 DRUG EDUCATION.** (2, fa, odd). Course provides an understanding of the use and abuse of legal and illegal drugs. Controversial issues relating to public policy, social policy, prevention and treatment are explored through student debates.
- PED 414 MENTAL, EMOTIONAL, AND SPIRITUAL WELLNESS.** (2, sp, odd). Course focuses on a wealth of perspectives and tools to assist people in achieving mental, emotional and spiritual wellness.
- 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 416 STRESS MANAGEMENT.** (2). Course provides a thorough understanding of stress, its causes and consequences, and an opportunity to personally and/or professionally apply stress management techniques in a variety of settings.

# WELLNESS

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## DEPARTMENT OF EDUCATION

### **Mission**

Lincoln University's B.S. in Wellness degree is an interdisciplinary blending of coursework and learning experiences in seven Wellness areas: physical, mental, emotional, social, spiritual, vocational and environmental. Graduates with this degree often seek and find work in diverse areas from corporate wellness to retirement centers, from YMCAs to governmental agencies, and from church camps to private consulting.

### **Degrees Offered**

Bachelor of Science in Wellness

### **Objectives**

All students completing the Wellness degree program will be able to:

1. demonstrate an understanding of the interdependence among all living organisms and their environments
2. evaluate and promote methods for enhancing well-being from the personal level to the international level
3. network and collaborate with other Wellness professionals with understanding and expression

### **Assessment Program**

Assessment measures allow students and faculty to determine whether students have met the objectives of the program. The Wellness faculty has spread its assessment measures throughout the degree program so that students can receive periodic reports of their progress and follow-up advice.

The primary measures of assessment are:

1. earning a "C" or better in all of the required courses
2. earning a "B" or better for the Wellness Program Design Delivery Portfolio at the completion of WEL 406
3. completing the internship/practicum experience with a "B" or better in WEL 495

### **Computer Skills Requirement**

Students must complete EDU 270 Instructional Technology or a comparable computer science class.

### **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.

- WEL 405 PROGRAM DESIGN IN WELLNESS.** (2, fa, odd). 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, sp even). 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 495 WELLNESS PRACTICUM/INTERNSHIP.** (4). Students are placed 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.

**BS in Wellness**  
**Academic Map (Fall Admission)**

<b>Freshman First Semester</b>		<b>Hrs.</b>	<b>Freshman Second Semester</b>		<b>Hrs.</b>
GE 101	University Seminar	1	ENG 102	Comp. and Rhet. II	3
PHI 201	Religions of the World	3	HIS 102	World Civ. II	3
ENG 101	Comp. and Rhet. I	3	ENV 103	Environ. Science	3
BIO 103 104L	Prin. of Biology w/Lab	4	MAT 117	ACT determines math placement	3
PSY 101	General Psychology	3	SPT 206	Fund. of Speech	3
PED 111	Personal & Comm. Health	2			
<b>TOTAL:</b>		<b>16</b>	<b>TOTAL:</b>		<b>15</b>

<b>Sophomore Third Semester</b>		<b>Hrs.</b>	<b>Sophomore Fourth Semester</b>		<b>Hrs.</b>
ART, MUS, SPT or ENG	Art, music, theater appreciation or literature	3	HIS 206 PSC 203	U.S. History II or Amer. Nat'l Gov't	3
SA 200	American Diversity or other diversity option	3	SOC 301	The Family	3
PED 411	School/Comm. Health	2	PED 412	Sex Education	2
PED 1XX	P.E. Activity	1	PEP 301	Kinesiology	3
PEP 201	Nut., Fit. & Exercise	3	AGR 303A	Human Nutrition	3
PEP 205	CPR, Safety & First Aid	2	PEP 200	Found. of P.E. & Wellness	2
<b>TOTAL:</b>		<b>14</b>	<b>TOTAL:</b>		<b>16</b>

<b>Junior Fifth Semester</b>		<b>Hrs.</b>	<b>Junior Sixth Semester</b>		<b>Hrs.</b>
PEP 360	Exercise Physiology	3	PHI 303	Healthcare Ethics	3
PSY 303	Social Psychology	3	PSY 308	Dev. Psychology	3
PED 413	Drug Education	2	PED 414	Mental, Emot, Spiritual Wellness	2
SOC 302+	Sociology 302 or Higher	3		Elective	3
EDU 270 or CS 103	Instr. Tech. or Intro to MS Office Apps	3		Elective	3
<b>TOTAL:</b>		<b>14</b>	<b>TOTAL:</b>		<b>14</b>

<b>Senior Seventh Semester</b>		<b>Hrs.</b>	<b>Senior Eighth Semester</b>		<b>Hrs.</b>
PED 416	Stress Mgmt.	2	WEL 406	Prog. Delivery/Wellness	2
WEL 405	Prog. Design/Wellness	2	WEL 495	Wellness Internship	4
	Elective	3		Elective	3
	Elective	3		Elective	3
	Elective	3		Elective	3
	Elective	3		Elective	1
<b>TOTAL:</b>		<b>16</b>	<b>TOTAL:</b>		<b>16</b>



# DEPARTMENT OF NURSING AND ALLIED HEALTH

## NURSING PROGRAM

Professors: Bickel, Dahlstrom,  
Associate Professors: Douglas, Jaegers, Long, McSwain  
Assistant Professors: Birk, Heyen, Lane,  
McCord, Murray, Stone, Sullivan  
Instructors: Brashear, Grube, Lockhart, Owen,  
Thompson, Wieberg

### **Mission**

The faculty of the Department of Nursing and Allied Health function within the general framework and policies of Lincoln University, reflecting the mission of the University in the philosophical statements regarding person, nursing, and nursing education. These reflect responsiveness to the educational needs of our students as well as the provision of service to the state and nation.

The Department of Nursing and Allied Health offers a Bachelor of Science in Nursing (BSN) program to prepare individuals for professional nursing practice. Emphasis within the program is placed on roles of the nurse and the *Essentials of Baccalaureate Education for Professional Nursing Practice* as defined by the American Association of Colleges of Nursing (AACN, 2008). The program offers on campus classes, as well as, some online general education and nursing courses. The program is designed for students who desire an initial entry into nursing at the baccalaureate degree level. This program has received initial approval by the Missouri State Board of Nursing. The Lincoln University nursing faculty is seeking national accreditation for this program.

The RN-BSN Nursing Program prepares registered nurses for professional nursing practice. The RN-BSN program serves a diverse student population and courses are offered online to meet the needs of practicing RNs. Emphasis within the program is placed on role development and the AACN Essentials necessary for professional nursing practice. The nursing faculty is committed to meeting the needs of our students and the community through ongoing program evaluation and revision.

The Associate of Applied Science (AAS) in Nursing program, offered only on the Fort Leonard Wood campus, prepares graduates for entry-level associate degree nursing practice in diverse settings where policies and procedures are specified and guidance is available. Emphasis in the program is placed on development of competencies essential to the practice of AAS Nursing as defined by the NLN (Educational Competencies for Graduates of Associate Degree Nursing Programs, 2000). In addition, this program provides a basis for continued studies in nursing.

## **Degrees Offered**

### **Bachelor of Science in Nursing**

The BSN Program has initial approval from the Missouri State Board of Nursing. The faculty are seeking national accreditation.

The RN-BSN Program is fully accredited by the Accreditation Commission for Education in Nursing, 3343 Peachtree Road, NE Suite 850, Atlanta, GA, 30326, (404-975-5000).

### **Associate of Applied Science in Nursing**

The AAS in Nursing Program is fully approved by the Missouri State Board of Nursing and fully accredited by the Accreditation Commission for Education in Nursing, 3343 Peachtree Road NE, Suite 850, Atlanta, GA, 30326, (404-975-5000).

### **Bachelor of Science in Nursing**

#### **Objectives**

The program objectives of the BSN are to prepare students to:

1. Employ concepts from the arts and sciences to form the basis for clinical reasoning.
2. Apply leadership concepts, skills, and decision making in the provision of high quality nursing care, health care team coordination, and the oversight and accountability for care delivery in a variety of settings.
3. Integrate evidence-based practice (EBP) in planning, implementing, and evaluating outcomes of care.
4. Demonstrate skills in using client/patient care and information technologies, information systems, and communication devices that support safe nursing practice.
5. Demonstrate knowledge of healthcare policy, finance, and regulatory environments that influence healthcare trends.
6. Apply effective communication techniques, including negotiation, collaboration, and conflict resolution to produce positive professional relationships.
7. Use clinical prevention and population focused nursing to improve health.
8. Demonstrate core nursing values to achieve optimal health outcomes by applying the professional standards of moral, ethical, and legal conduct.
9. Demonstrate knowledge, skills, and attitudes necessary for practice as a member and leader of the interprofessional health care team.

## **Assessment Program**

Assessment measures allow students and faculty to determine the degree of success that students have in meeting program and student outcome objectives. Formative and summative assessment measures such as student performance rubrics, surveys and standardized nursing exams are used during the nursing program. Student results are analyzed to determine program strengths and deficits. Based on this analysis, curriculum or program revisions are made to enhance student learning. Additionally, based on individual student performance on standardized nursing exams, supplemental instruction will be required in preparation for the national licensure exam.

## **Admission Criteria**

The Lincoln University Department of Nursing and Allied Health has a selective admission procedure. Enrollment is limited to 30 students each semester (Spring/Fall).

Applicants are selected based on the following criteria:

1. Admission to Lincoln University
2. Minimum ACT 21  
Minimum TOEFL of 600 if English is a second language.
3. Minimum cumulative GPA 2.5
4. Have completed the following courses with a grade of C or higher within two attempts
  - GE 101
  - ENG 101
  - ENG 102
  - PSY 101
  - MAT 111
  - MAT 117
  - SPT 206
  - BIO 103/104L
  - BIO 208/209L
  - S/A 201
  - NUR 100
5. Nursing department application with \$25 non-refundable application fee
6. Three reference forms
7. Personal interview by invitation
8. Good academic and non-academic standing

The student is responsible for contacting the Nursing Department office (573) 681-5421 to make sure their application and references have been received and are complete by the deadline. The student is responsible for providing and maintaining a current address and contact number to the Department of Nursing and Allied Health. The Nursing Department will only use Lincoln email addresses.

After the above criteria are met, the admissions committee will review the applicant's admission packet and file for acceptability for interview. After the interview, all applicants will be notified in writing of their acceptance or rejection. If the applicant is denied and chooses to reapply the next semester, the application process will need to be repeated. Applicants who are accepted into the BSN program are requested to confirm in writing their acceptance. Applicants accepted to begin the BSN program may obtain

orientation information in the nursing department or online at <http://www.lincolnu.edu/web/dept.-of-nursing-science/nursing-science>

**The following criteria must be completed prior to beginning Fundamentals of Nursing (NUR 220)** Students must have completed the following courses with a grade of C or higher within two attempts. Program progression requires minimum GPA of 2.0.

PSY 308  
BIO 301/301L  
American Cultural Diversity (Area 7)  
CHEM 103  
Gen Ed Req

Student transcripts must reflect completion of pre-requisite and/or required courses with a “C” or above on the first or second attempt within the last 5 years to be admitted. Registration in a course and then subsequently withdrawing (W) is considered an attempt. If the student has received a D, F, or W in pre-requisite and/or required courses on the second attempt the student must wait 5 years to apply to the nursing program. If extenuating circumstances have occurred, the student may petition the faculty in writing for an exception. Applicants who are accepted into the BSN program are requested to confirm, in writing, their enrollment plans.

Prospective nursing students are required to attend an informational session and are advised to familiarize themselves with the **Missouri Statutes**, 335.066 as excerpted from the **Missouri Nurse Practice Act**, as amended in 1999. This section identifies criteria the Missouri State Board of Nursing may use to deny licensure. According to Missouri Statute 335.046, "an applicant for licensure shall be of good moral character and have completed at least the high school course of study or the equivalent thereof as determined by the State Board of Education, and have successfully completed the basic professional curriculum in an accredited or approved school of nursing and earned a professional nursing degree or diploma." The BSN Student Handbook is distributed to nursing students beginning the BSN program.

## **Admission as a Transfer Student**

Students must complete the nursing “Admission Criteria” as outlined above. Transfer credits from other colleges and universities will be evaluated on an individual basis for equivalency to current program requirements. Only courses completed with a grade of “C” or better will be considered for transfer. Students who wish to enroll in non-nursing classes at other institutions and have those credits count toward their degree at Lincoln University must seek approval prior to enrolling in those classes if they plan to be concurrently enrolled in courses at Lincoln University. Certification of Transfer Credit forms are available in the office of Nursing and Allied Health. Required courses in the social and biological sciences form the basis for making nursing judgments. The nursing faculty, therefore, reserves the right to require students to re-take any course when credit was earned several years prior to enrollment in the BSN program.

## **Practicum Requirements**

Nursing students are required to meet health requirements established by the University. All applicants accepted for admission to the BSN program must be

physically and mentally healthy. Because students are provided practicum experiences in a variety of health care agencies, students must assure that they are in good health throughout their enrollment in the BSN program..

Students must maintain documentation of immunizations/titers, i.e., Hepatitis B, DTaP, MMR, and Varicella and yearly Mantoux (TB) testing and influenza vaccine. Students are required to have a 10 panel drug plus alcohol screen. Due to the nature of practicum experiences and the risk of exposure to illness and injury, all nursing students are encouraged to have health insurance. The cost of treatment for any injury or illness is the responsibility of each student.

Nursing students are required to provide documentation of certification to perform adult (one man, two man), child and infant cardiopulmonary resuscitation (CPR) prior to beginning practicum nursing courses in the BSN program. Students must document current CPR certification throughout their enrollment in the BSN program.

## **Criminal Background Checks**

All students entering the practicum portion of the nursing major will complete the University's criminal record check at the students' expense. This 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. Corequisite: 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 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, AGR 303A.

**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, AGR 303A.

**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 200, NUR 220, NUR 230/230L. Co-requisites: NUR 305, NUR 322/322L, NUR 340.

**NUR 305 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, NUR 230/230L. Co-requisites: NUR 300, NUR 322/322L, NUR 340.

**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, NUR 230/230L. Co-requisites: NUR 300, NUR 305, NUR 340.

**NUR 340 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, NUR 230/230L. Co-requisites: NUR 300, NUR 305, NUR 322/322L.

**NUR 360 INTRODUCTION TO NURSING RESEARCH (3)** This online 8 week 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 6 hours of theory/week per 8-week session. Prerequisites: NUR 300, NUR 305, NUR 322/322L, NUR 340. Co-requisite: NUR 365.

**NUR 365 NURSING OF WOMEN & CHILDREN (8)** 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 5 hours of theory and 9 hours of practicum per week. Prerequisites: NUR 300, NUR 305, NUR 322/322L, NUR 340. Co-requisite: NUR 360.

**NUR 400 MEDICAL-SURGICAL NURSING II (5)** 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 6 hours of practicum per week. Pre-requisites: NUR 360, NUR 365. Co-requisite: NUR 420.

**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 360, NUR 365. Corequisite: NUR 400.

**NUR 435 MEDICAL-SURGICAL NURSING III (5)** 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 6 hours of practicum per week. Pre-requisite: NUR 400, NUR 420. Co-requisite: NUR 460, NUR 475.

**NUR 460 LEGAL & ETHICAL ISSUES IN PROFESSIONAL NURSING (3)** This course studies 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 400, NUR 420. Co-requisites: NUR 435, NUR 475.

**NUR 475 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, NUR 420. Co-requisites: NUR 435, NUR 460.

## **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 in writing for an exception.



## **Readmission**

A student eligible for readmission to the BSN program must complete the requirements in the current bulletin at the time of readmission. A student, who exits the BSN program for any reason or fails to progress with his or her class, is not guaranteed readmission to the program. The nursing faculty reserves the right to require a readmitted student to audit or re-take a nursing course when the current course varies significantly from content during prior enrollment or when faculty believe that the amount of time since the student was enrolled in the course has been sufficient to jeopardize the student's success in the BSN program. These students may be allowed to document course competence by successfully writing the final examination(s) for the courses involved. When a student desires readmission to the program, he/she should write a letter to the department head describing the reasons for withdrawal or exclusion, when readmission is desired, and the changes which have occurred to facilitate program completion. This letter should be received in the department office prior to finals week in order for the request to be reviewed by the nursing faculty. The student will be notified in writing of the response to his/her request and whether space is available to accommodate him/her. Eligible candidates can only be admitted if space is available.

## **Degree/Licensure Requirements for the BSN**

A minimum of 123 credit hours with a minimum GPA of 2.00 is required for graduation with a BSN degree. Students must complete all general education and nursing courses with grades of "C" or better.

Nursing - A minimum of 60 credit hours in nursing are required for graduation. A minimum of 30 credit hours of 300 and/or 400 level course work must be successfully completed in residence to obtain a baccalaureate degree. Specific major requirements are NUR 200, 220, 230/230L, 300, 305, 322/322L, 340, 360, 365, 400, 420, 435, 460, and 475.

Non-nursing – A minimum of 63 credit hours of general education are required for graduation. Precollege level courses do not count toward graduation requirements. For general education requirements, refer to the academic map. Successful completion of the BSN requirements qualifies the student for consideration by the faculty for recommendation to receive the Bachelor in Science Degree with a major in Nursing.

Completion of these requirements also qualifies the graduate to apply to the Missouri State Board of Nursing to become a registered nurse by writing the National Council Licensing Examination for Registered Nurses (NCLEX R.N.). However, completion of the program does not guarantee eligibility to write the NCLEX-R.N.

## BSN Academic Map (Fall Admission)

The following course must be taken prior to application to the program: GE101, ENG 101 and ENG 102, PSY 101, MAT 111, MAT 117, SA 201, SPT 206, BIO 103/104L, BIO 208/209L, and NUR 100

Freshman First Semester		Hrs	Freshman Second Semester		Hrs
GE 101	University Seminar	1	MAT 117	Elem. Statistics	3
ENG 101	Comp. and Rhet. I	3	ENG 102	Comp. and Rhet. II	3
BIO 103/ 104L	Prin. of Biology w/Lab	4	BIO 208/ 209L	Anatomy & Physiology w/Lab	5
MAT 111	Interm. Algebra	3	SPT 206	Fund. of Speech	3
PSY 101	General Psychology	3	NUR 100	Pre-Nursing Survey	3
SA 201	Intro. to Sociology	3			
<b>TOTAL:</b>		<b>17</b>	<b>TOTAL:</b>		<b>17</b>

Sophomore Third Semester		Hrs	Sophomore Fourth Semester		Hrs
HIS 101/102	World Civ. I or II	3	NUR 200	Pharmacology in Nsg	3
BIO 301/ 301L	Microbiology w/Lab	4	NUR 220	Fund. of Nursing	5
PSY 308	Dev. Psychology	3	NUR 230	Prin. of Nursing Skills	4
SA 200	Am. Div /other diversity option	3	AGR 303A	Prin. of Nutrition	3
CHM 103	Living with Chemistry	3			
<b>TOTAL:</b>		<b>16</b>	<b>TOTAL:</b>		<b>15</b>

Junior Fifth Semester		Hrs	Junior Sixth Semester		Hrs
NUR 300	Gerontological Nsg	2	NUR 360	Intro to Nsg Research	3
NUR 305	Psychosocial Nsg	3	NUR 365	Nsg of Women & Children	8
NUR 322	Health Assessment	3	NUR 335	Death/Bereavement or other international diversity option	3
ART, MUS, SPT, ENG or PHI	Art, music, theater appreciation or literature or philosophy	3			
NUR 340	Medical Surgical Nsg I	5			
<b>TOTAL:</b>		<b>16</b>	<b>TOTAL:</b>		<b>14</b>

Senior Seventh Semester		Hrs	Senior Eighth Semester		Hrs
NUR 400	Medical Surgical Nsg II	5	NUR 435	Medical Surgical Nsg III	5
NUR 420	Leadership/Mgt. in Nsg	3	NUR 460	Legal/Eth Issues Prof. Nursing	3
ART, MUS, SPT, ENG or	Art, music, theater appreciation or literature or philosophy	3	NUR 475	Community Health Nursing	5

PHI					
HIS 205/206 PSC 203/204	U.S. History I or II or Am. Nat'l Gov't or Am. State & Local Gov't	3			
PED 1XX	P.E. Activity	1			
<b>TOTAL:</b>		<b>15</b>	<b>TOTAL:</b>		<b>13</b>

## **RN-Bachelor of Science in Nursing Program**

### **Objectives**

The program objectives of the RN-BSN program are to prepare students to

1. employ concepts from the arts and sciences to form the basis for clinical reasoning.
2. apply leadership concepts, skills, and decision making in the provision of high quality nursing care, healthcare team coordination, and the oversight and accountability for care delivery in a variety of settings.
3. integrate evidence based practice (EBP) in planning, implementing, and evaluating outcomes of care.
4. demonstrate skills in using client/patient care and information technologies, information systems, and communication devices that support safe nursing practice.
5. demonstrate knowledge of healthcare policy, finance, and regulatory environments that influence healthcare trends.
6. apply effective communication techniques, including negotiation, collaboration, and conflict resolution to produce positive professional relationships.
7. use clinical prevention and population focused nursing to improve health.
8. demonstrate core nursing values to achieve optimal health outcomes by applying the professional standards of moral, ethical, and legal conduct.
9. demonstrate knowledge, skills, and attitudes necessary for practice as a member and leader of the interprofessional healthcare team.

Achievement of these outcomes will enable graduates to practice within complex healthcare systems and assume the roles: provider of care; designer/manager/coordinator of care; and member of a profession.

### **Assessment Program**

Assessment measures allow students and faculty to determine the degree of success that students have in meeting program and student outcome/objectives. Formative and summative assessment measures such as discussions, quizzes, case studies, , surveys, focus groups and group projects are used during the nursing program. Student results are analyzed to determine program strengths and deficits. Based on this analysis, curriculum or program revisions are made to enhance student learning.

### **Admission Criteria**

To be admitted to the RN-BSN program, the applicant must

1. have a Certificate of Admission to Lincoln University
2. have a current RN license in good standing in the state where practicum will be completed
3. complete the RN-BSN application form. This form may be obtained in the Nursing Office (100 Elliff) or online at <http://www.lincolnu.edu/web/dept.-of-nursing-science/bsn-forms>
4. completed at least 64 hours of college credit and be eligible for junior standing, to include the following:

## Nursing:

Medical-Surgical, Obstetrics, Pediatrics, Mental Health	25 credits
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### \*Non-Nursing:

English composition (I & II)	6
Science: to include anatomy and physiology, microbiology, and chemistry	16
Sociology	3
Psychology	3
Mathematics	3
Other: to include 3 credits in history/government	8

\*Students who have not completed the specified non-nursing courses listed above may be admitted if they have accumulated 64 hours of college credit.

Students must plan their program of study to include any general education courses required for a bachelor's degree that they have not completed a part of their previous education. Persons interested in the RN-BSN program are encouraged to call or visit the Department of Nursing and Allied Health for information and/or an appointment with an academic advisor.

## **Admission as a Transfer Student**

Transfer credits from other colleges and universities will be evaluated on an individual basis for equivalency to current program requirements. Only courses completed with a grade of C or better will be considered for transfer. Required courses in the social and biological sciences form the basis for making nursing judgments.

Transcripts from diploma programs will be evaluated on an individual basis. The Department of Nursing and Allied Health may grant up to 34 hours of lower division nursing credits. Additional college credits may be awarded for the sciences, social sciences, and humanities after transcript evaluation.

## **Practicum Requirements**

Prior to beginning practicum courses, NUR 430 Professional Nursing Practice and NUR 470 Community Health Nursing, students must submit to the course instructor verification of the following:

- RN licensure in good standing in the state where practicum will be completed
- Criminal background fingerprint check This is valid for 2 years.
- American Heart Association Healthcare Provider CPR certification (adult: 1 and 2 man, infant, and child)
- Professional liability insurance coverage 1,000,000/3,000,000
- Hepatitis B vaccine series
- MMR vaccine (2 doses) or antibody test
- DTaP vaccine within the past 10 years
- Annual Influenza vaccine
- Varicella vaccine or titer
- Annual Mantoux TB skin test
- Ten panel drug plus alcohol screen. This is valid for 2 years
- Individual practicum agency requirements

Due to the nature of practicum experiences and the risk of exposure to injury and illness, all nursing students are strongly encouraged to have health insurance. The cost of treatment for illness or injury is the responsibility of the individual student.

## **Criminal Background Checks**

All students entering a practicum experience will need to complete a criminal background check at the student's expense. This investigation meets statutory requirements and is to insure 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. Criminal background checks will be valid for a period of two years.

Students must meet the requirements of agencies where Lincoln University participates in practicum experiences. If the results of the criminal background check reveals 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 practicum.

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 to have 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 practicum.

## **Progression**

RNs must have and maintain a current RN license in good standing in the state they are completing their practicum experiences. Each student must satisfy all requirements for all components of each nursing course. A grade of C or above in nursing courses is necessary for progression to the next course in the nursing sequence. Students who receive a grade below C (75%) must repeat the course. Students who twice withdraw failing and/or fails (below a C) a nursing course will be denied progression. A student may repeat two nursing courses within a five year period. If extenuating circumstances have occurred, the student may petition the faculty in writing for an exception. Practicum courses include practicum experiences that must be successfully completed in order to pass the course. Unsatisfactory performance in theory or practicum will result in failure of 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%. A student will need to complete all nursing courses in the RN-BSN program within a five year period.

## **Program Requirements**

Nursing students must meet the Lincoln University requirements for graduation as outlined in the *Undergraduate Bulletin*. Students must also complete the University's general education requirements for the bachelor's degree.

The RN-BSN program requires completion of a total of 121 credits, including 32 credit hours of upper division (300 or above) nursing courses. A minimum of 40 hours of upper division courses (those numbered 300-499) is required for graduation. If the one hour of activity physical education is waived, then a minimum of 120 hours of academic credit is required. Elective hours can be used to meet the total number of hours required for the degree. Additionally, a minimum of 30 credit hours of 300- and/or 400- level

course work must be successfully completed in residence to obtain a baccalaureate degree; a minimum of 12 of these 30 semester hours must be in the major and, if a minor is declared, at least 6 of these 30 hours must be in the minor.

The following upper division nursing courses are required for the RN-BSN:

NUR 310 (3 hr) Concepts of Professional Nursing

NUR 320 (2 hr) Health Assessment I

NUR 321 (2 hr) Health Assessment II

NUR 350 (3 hr) Pathophysiology

NUR 360 (3 hr) Introduction to Nursing Research

NUR 420 (3 hr) Leadership/Management in Nursing

NUR 430 (5 hr) Professional Nursing Practice

NUR 460 (3 hr) Legal and Ethical Issues in Professional Nursing

NUR 470 (5 hr) Community Health Nursing \*

In addition, the student must select at least 3 credit hours from the following elective nursing courses:

NUR 315 (3 hr) Pharmacology in Nursing

NUR 325 (3 hr) Computers in Nursing

NUR 330 (3 hr) Nursing in Groups

NUR 335 (3hr) Death and Bereavement: Cultural Variations \*\*

NUR 415 (1-3 hr) Special topics

NUR 425 (1-3 hr) Independent study

\*NUR 470 Community Health meets the PED 111 General Education Requirement.

\*\*NUR 335 Death and Bereavement: Cultural Variations can be used to meet the International Cultural Diversity General Education Requirement as well as the nursing elective.

## **Computer Skills Requirement**

Nursing students must be able to utilize university email and on-line course management systems, internet, power point, and word-processing throughout the nursing program. Computer hardware and software requirements for the on-line program are outlined in the RN-BSN Student Handbook.

## RN-BSN Academic Map

Junior Fall Semester		Hrs	Junior Spring Semester		Hrs
NUR 310	Concepts of Prof. Nsg.	3	NUR 350	Pathophysiology	3
NUR 320	Hlth Assessment I	2	NUR 360	Intro. to Nsg. Research	3
NUR 321	Hlth Assessment II	2	NUR XXX	Nursing Elective	3
CHM 103	Living with Chemistry	3	PED 124	Walking	1
MAT-117	Elem Statistics	3	SA 200	Am. Cultural Diversity	3
SPT 206	Fund. of Speech	3			
<b>TOTAL:</b>		<b>16</b>	<b>TOTAL:</b>		<b>13</b>

Senior Fall Semester		Hrs	Senior Spring Semester		Hrs
NUR 420	Leader/Mgmt. in Nsg.	3	NUR 460	Legal/Ethical Issues in Nsg.	3
NUR 430	Prof Nsg. Practice	5	NUR 470	Community Hlth Nsg.	5
SPT 209	Intro to Theatre	3	HIS 102	World Civilization II	3
PHI 303	Health Care Ethics	3	NUR 335	Death and Bereavement	3
				Upp. Div. Elective if needed	3
<b>TOTAL:</b>		<b>14</b>	<b>TOTAL:</b>		<b>17</b>

\*All general education requirements must be completed.

\*\*Upper division courses suggested if needed to meet the 40-hour upper division requirement.

### 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 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 315 PHARMACOLOGY IN NURSING.** (3). This course is designed to increase the knowledge of, and apply advanced pharmacology to nursing practice. This course has 6 hours of theory/week per 8 week session. Prerequisite: Admission to the RN-BSN program or permission of instructor.

**NUR 320 HEALTH ASSESSMENT I.** (2, fa). This course emphasizes concepts and skills of comprehensive assessment applicable to the adult and child with specific health history skill development. This course has 4 hours of theory/week per 8 week session. Prerequisite: NUR 104.



- NUR 321 HEALTH ASSESSMENT II.** (2, fa). This course emphasizes concepts and skills of comprehensive physical exam assessment for the adult and child with specific attention to physical examination skill development. This course has 4 hours of theory/week per 8 week session. Prerequisite: NUR 320.
- NUR 325 COMPUTERS IN NURSING.** (3). This course introduces use of information management and technologies to promote quality patient outcomes and inform practice decisions. This course has 6 hours of theory/week per 8 week session. Prerequisite: CS 103.
- NUR 330 NURSING IN GROUPS.** (3). This course provides theoretical foundation for utilizing the nursing process with families, groups, and communities, and populations. Emphasizes the baccalaureate nursing roles. This course has 6 hours of theory/week per 8 week session. Prerequisite: NUR 310 or permission of instructor.
- 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.