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# College of Arts and Sciences

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The College of Arts and Sciences offers baccalaureate and masters programs in a wide range of disciplines encompassing the arts, the humanities, the social and behavioral sciences, and the natural and mathematical sciences. The college also offers associate degrees in paralegal studies and science for engineering; preprofessional programs in engineering, forestry, optometry, pharmacy, and medical sciences; and certificate programs in French, German, Japanese, and Spanish. The College of Arts and Sciences also is principally responsible for the University's general education program through which all University students are provided the opportunity to develop the skills, the knowledge, and the discernment essential to the full development of each person as an individual and as a member of society.

Through its many disciplines the College of Arts and Sciences strives to provide all students an excellent education with the most complete and current resources; to provide service to the University and to the community through its academic programs, through such facilities as the Hummel Planetarium and Psychology Clinic, and through the professional development and cultural opportunities sponsored by the College; and to encourage and support research and scholarship in all the disciplines included in the College.

## **DEGREES OFFERED**

The College of Arts and Sciences offers the following baccalaureate degrees: Bachelor of Arts, Bachelor of Science, Bachelor of Fine Arts, Bachelor of Music, Bachelor of Music Education, Bachelor of Social Work, Bachelor of Individualized Studies, and Bachelor of General Studies. The Associate of Arts is offered in Paralegal Studies and the Associate of Science in Science for Engineering.

## **COLLEGE DEGREE REQUIREMENTS**

General University degree requirements as set forth in Section Four of this *Catalog* as well as specific course requirements set forth in the descriptive curricula must be met by students completing programs administered by the College of Arts and Sciences. All students graduating with majors in the College of Arts and Sciences must have a 2.0 GPA in the major exclusive of any supporting courses. Students pursuing a minor in the College must have a minimum 2.0 GPA in the minor. At least twenty five percent of the courses in the major must be taken at Eastern

Kentucky University. In addition, individual programs may have specific requirements that exceed College requirements. Students should consult with an advisor or department chair to learn the particular requirements of a program.

## **Affiliated Activities and Resources**

### **GULF COAST RESEARCH LABORATORY**

Eastern Kentucky University is affiliated with the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. This affiliation provides undergraduate and graduate students with the opportunity to take courses and conduct research in marine sciences at an established, well equipped laboratory located on the Gulf of Mexico. Students electing to study at Gulf Coast Research Laboratory do not pay out-of-state tuition.

Courses are taught only at Gulf Coast Research Laboratory, Ocean Springs, Mississippi, during the summer. The Laboratory furnishes the staff for course work and research. Applications for the program and additional information are available in the departments of Biological Sciences, Chemistry, and Earth Sciences and in the Division of Natural Areas.

### **TECHNOLOGY INFORMATION CENTER**

The College of Arts & Sciences Technology Information Center (TIC) is a Computer Center that offers a wide variety of services to faculty, staff and students. Located in Memorial Science 270, the Center houses a variety of technological equipment including 21 PCs all of which are connected to the Internet by a 1 GIG connection to quality laser printers, flatbed and slide/film scanners, black and white and color laser printing (including color poster printing), wide format printing and a film recorder (places digital images on film). Software packages available in the Center include Microsoft Office, Adobe Photoshop, Dreamweaver MX (for website development), SPSS and SAS as well as many "course specific" software programs.

We provide technical assistance to faculty and staff in the areas of computer-related problems, workshops for a wide variety of software packages, web development assistance and training in SmartBoard Technology. The Center can be reserved by faculty, staff, and graduate assistants for computer-based classes and workshops. The Center is also equipped with a SmartBoard, making it an excellent room for teaching.

## Pre-Professional Curricula

### PRE-ENGINEERING CURRICULA

There are two pre-engineering curricula offered by the College of Arts and Sciences.

In the first curriculum, referred to as the **Two-Two Curriculum**, students spend two years at EKU and study basic science, mathematics, and courses for their basic education. Students then transfer their credits to the engineering school of their choice. Students can usually complete a degree in engineering after two years of course work at the engineering school.

#### TWO-TWO CURRICULUM

**Major Requirements** ..... 30 hours

PHY 201, 202, MAT 124\*, 224, 225, CHE 111, 112.

**Supporting Course Requirements** ..... 9 hours

PHY 221, TEC 190 and an approved programming language.

**General Education Requirements** ..... 24 hours

Six hours of English composition, 18 hours selected from the humanities and social sciences to satisfy general education requirements at the chosen engineering school.

**University Requirement** ..... 1 hour

ASO 100.

**Total Curriculum Requirements** ..... 64 hours

\*A preparatory course (MAT 109) may be required before admission to MAT 124.

#### THREE-TWO CURRICULUM

In the second curriculum - the **Three-Two Curriculum** - students spend three years at EKU and then take two years of work in engineering at the University of Kentucky or Auburn University and earn a baccalaureate degree from EKU in physics or chemistry and an engineering degree from the engineering school. The additional year spent at EKU allows students to do more work in a science major, thus improving the breadth of their background.

Variations occur depending upon the engineering degree sought and the differing requirements of the University of Kentucky and Auburn University. Inquiries concerning a specific program should be addressed to the pre-engineering advisor, Department of Physics and Astronomy or Department of Chemistry. A program representative of the first two years is given in the **Two-Two Curriculum** above. The third year curriculum will depend primarily on the undergraduate major sought, either physics or chemistry.

A third option available to a student would be to complete requirements for a baccalaureate degree in physics or chemistry at EKU and then to apply to a graduate school in engineering for admission and graduate studies.

### PRE-FORESTRY CURRICULUM

Arrangements made through the Southern Regional Education Board provide for students who wish to prepare as professional foresters to do the first three years of their work at EKU and complete their training in two years and one summer at University of Kentucky or any other accredited school of forestry.

Students may elect a three-year program and graduate with a Bachelor of Science degree with a major in biology by transferring 30 semester hours from an accredited school of forestry.

**Major Requirements** ..... 26 hours  
BIO 121, 131, 141, 315, 328, 335, 536.

**Supporting Course Requirements** ..... 41 hours  
AGR 215, CHE 111, 115, 112, 116, or 116H, CON 221, CSC 174, ENG 300, GLY 108, TEC 190, MAT 124\*, PHY 131; CMS 100 or 300; STA 215 or 270.

**General Education Requirements** ..... 30 hours  
Standard General Education program, excluding blocks IC, II, IVB, VII (QS), and VIII (6 hours). Refer to Section Four of this *Catalog* for details on the General Education and University requirements.

**University Requirement** ..... 1 hour  
ASO 100.

**Free Electives** ..... 12 hours

**Total Curriculum Requirements** ..... 110 hours

\*A preparatory course (MAT 109) may be required before admission to MAT 124.

### PRE-OPTOMETRY CURRICULUM

Students desiring to enter the competition for admission to an optometry school must complete a minimum of three years of pre-optometry courses and most schools require the student to earn a baccalaureate degree before applying. The application deadline for optometry schools is usually in December. Students must also achieve a high score on the Optometry Admissions Test. A minimum of three years work is required in the optometry school for the Doctor of Optometry (O.D.). Most optometry schools require four years for the O.D., and several universities have graduate programs leading to the M.S. and Ph.D. degrees in addition to programs leading to the O.D.

Requirements for admission to optometry schools vary. Students wishing to enter a pre-optometry program should immediately secure transfer information from the optometry school of their choice and then consult with their pre-optometry advisor.

Courses which students may take to meet requirements for admission to optometry schools should include the following.

**Major Requirements** ..... 32 hours  
BIO 121, 141, 320, CHE 361, 362, 366, 367, PHY 131, 132.

**Supporting Course Requirements** ..... 19 hours  
MAT 109, 124, 224; PSY 200; STA 270.

**General Education Requirements** ..... 21 hours  
CHE 111, 115, 112, 116 or 116H, six hours of English composition, six hours social science.

**University Requirement** ..... 1 hour  
ASO 100.

**Total Curriculum Requirements** ..... 73 hours

Most optometry schools have established quotas on the number of students that they will accept from each state. Because of this limitation, students must be accepted by the school of optometry and be certified as a resident of the state in which they live. Present circumstances are such that Kentucky residents will stand the best chance for acceptance at Indiana University, the University of Alabama, and Southern College of Optometry at Memphis, which have contracts with the Commonwealth of Kentucky. Approved students are exempt from the out-of-state tuition charge at the above schools.

For residents in Kentucky to be accepted under the Kentucky quota, application must be made directly to one of the three contract schools listed above. A Certificate of Residency will be

needed which may be secured from the Executive Director, Council on Postsecondary Education, Frankfort, KY 40601. Students from other states should make application to the equivalent board in their state. For further information, the student should consult with the Pre-Medical Science Advisor.

### PRE-PHARMACY CURRICULUM

Students who plan to enter the field of pharmacy may take two years of pre-pharmacy and transfer these credits to a pharmacy school. The courses listed below will meet the requirements of most pharmacy schools. Students wishing to enter the curriculum should determine the admission requirements of the pharmacy school of their choice and after consulting their pre-pharmacy advisor, determine which courses to take.

<b>Major Requirements</b> .....	<b>27 hours</b>
BIO 141, 171, 320, CHE 111, 112, 361, 362, 366, 367.	
<b>Supporting Course Requirements</b> .....	<b>17 hours</b>
ECO 230, MAT 124*, PHY 131, 132.	
<b>General Education Requirements</b> .....	<b>27 hours</b>
Six hours of English composition; 21 hours towards the general education requirements at the chosen pharmacy school.	
<b>University Requirements</b> .....	<b>1 hour</b>
ASO 100.	
<b>Total Curriculum Requirements</b> .....	<b>72 hours</b>

\*A preparatory course (MAT 109) may be required before admission to MAT 124.

### PRE-MEDICAL SCIENCES

Students who have career interests in medicine, dentistry, osteopathic medicine, or podiatry may fulfill general admission requirements of specific professional schools by pursuing the Bachelor of Science degree in Biology or the Bachelor of Science (Biochemistry Option) degree in Chemistry. Students pursuing degrees in either department will concentrate in biology and chemistry, with appropriate and complementary courses in humanities, social sciences, and communications. Courses in mathematics and physics will also be required. Students interested in medical fields are assigned to a pre-medical sciences advisor. These advisors work closely with each student to help plan programs of study and prepare for the process of gaining admission to the chosen professional school.

#### Biology (B.S.)

<b>Major Requirements</b> .....	<b>35-36 hours</b>
BIO 121, 131, 141, 315, 316, 320; 328 or 348; 490, 514, one elective in biology at the 300-500 level.	
<b>Supporting Course Requirements</b> .....	<b>32-33 hours</b>
CHE 111, 115, 112, 116 or 116H, 361, 366, 362 and 367; MAT 124* or 261*; PHY 131, 132; STA 215 or STA 270.	
<b>General Education Requirements</b> .....	<b>30 hours</b>
Standard General Education program, excluding blocks II, IVA, IVB, VII (QS), and VIII (6 hours). Pre-medical and pre-dental students must take PSY 200. Refer to Section Four of this <i>Catalog</i> for details on the General Education and University requirements.	
<b>University Requirement</b> .....	<b>1 hour</b>
ASO 100.	

<b>Free Electives</b> .....	<b>28-30 hours</b>
<b>Total Curriculum Requirements</b> .....	<b>128 hours</b>

\*A preparatory course in mathematics may be required before admission to calculus.

#### Chemistry (B.S.) Pre-Medical

<b>Major Requirements</b> .....	<b>41 hours</b>
<b>Chemistry Core</b> .....	<b>28 hours</b>
CHE 111, 115, 112, 116H, 325, 361, 362, 366, 367, 471, 472, and 473.	
<b>Biochemistry Option</b> .....	<b>13 hours</b>
CHE 480, 481, 525, 530, 531, and 532.	
<b>Supporting Course Requirements</b> .....	<b>34 hours</b>
BIO 121; BIO 131 or 141; 315 or 320; MAT 124, 224, 225; PHY 201, 202.	
<b>General Education Requirements</b> .....	<b>27 hours</b>
Standard General Education program, excluding blocks II, IVA, IVB, VII (QS), and VIII (6 hours). Pre-medical students must take PSY 200. Refer to Section Four of this <i>Catalog</i> for details on the General Education and University requirements.	
<b>University Requirement</b> .....	<b>1 hour</b>
ASO 100.	
<b>Free Electives</b> .....	<b>25 hours</b>
<b>Total Curriculum Requirements</b> .....	<b>128 hours</b>

\*Strongly suggested electives include Histology (BIO 547), Embryology (BIO 546), and Animal Physiology (BIO 348).

#### Chemistry (B.A.) Pre-Dental

<b>Major Requirements</b> .....	<b>30 hours</b>
CHE 111, 115, 112, 116 or 116H, 325, 361, 362, 366, 367, 470, six hours of upper division chemistry electives.	
<b>Supporting Course Requirements</b> .....	<b>13-14 hours</b>
MAT 124* or 261*, PHY 131 or 201, PHY 132 or 202. It is recommended and expected that pre-dental students also take BIO 121, 141, and 320.	
<b>General Education Requirements</b> .....	<b>36 hours</b>
Standard General Education program, excluding blocks II, IVB, and VIII (6 hours). Pre-dental students must take PSY 200. Refer to Section Four of this <i>Catalog</i> for details on the General Education and University requirements.	
<b>University Requirement</b> .....	<b>1 hour</b>
ASO 100.	
<b>Free Electives</b> .....	<b>47-48 hours</b>
<b>Total Curriculum Requirements</b> .....	<b>128 hours</b>

\*A preparatory course in mathematics (MAT 109) may be required before admission to calculus.

### PRE-VETERINARY MEDICINE

Students who have career interest in veterinary medicine may fulfill general admission requirements of specific veterinary schools by pursuing the Bachelor of Science degree in Biology or the Bachelor of Arts degree in Chemistry. Students pursuing degrees in either department will concentrate in biology and chemistry, with appropriate and complementary courses in humanities, social

sciences, and communications. Courses in mathematics and physics will also be required. Students will be assigned to a pre-veterinary advisor. This advisor will work closely with each student to help plan programs of study and prepare for the process of gaining admission to the chosen school of veterinary medicine.

### Biology (B.S.)

<b>Major Requirements</b> .....	<b>35-36 hours</b>
BIO 121, 131, 141, 315, 316, 320; 328 or 348; 490, 514, or elective in biology at the 300-500 level.	
<b>Supporting Course Requirements</b> .....	<b>32-33 hours</b>
CHE 111, 115, 112, 116 or 116H, 361, 366, 362 and 367; MAT 124* or 261*; PHY 131, 132; STA 215 or STA 270.	
<b>General Education Requirements</b> .....	<b>30 hours</b>
Standard General Education program, excluding blocks II, IVA, IVB, VII (QS), and VIII (6 hours). Refer to Section Four of this <i>Catalog</i> for details on the General Education and University requirements.	
<b>University Requirement</b> .....	<b>1 hour</b>
ASO 100.	
<b>Free Electives**</b> .....	<b>28-30 hours</b>
<b>Total Curriculum Requirements</b> .....	<b>128 hours</b>

\*A preparatory course in mathematics may be required before admission to calculus.

\*\* Properly selected electives will allow a student to complete pre-veterinary medicine training.

### Chemistry (B.A.)

<b>Major Requirements</b> .....	<b>30 hours</b>
CHE 111, 115, 112, 116 or 116H, 325, 361, 362, 366, 367, 470, six hours of upper division chemistry electives.	
<b>Supporting Course Requirements</b> .....	<b>13-14 hours</b>
MAT 124* or 261*; PHY 131 or 201; PHY 132 or 202.	
<b>General Education Requirements</b> .....	<b>36 hours</b>
Standard General Education program, excluding blocks II, IVB, and VIII (6 hours). Refer to Section Four of this <i>Catalog</i> for details on the General Education and University requirements.	
<b>University Requirement</b> .....	<b>1 hour</b>
ASO 100.	
<b>Free Electives**</b> .....	<b>47-48 hours</b>
<b>Total Curriculum Requirements</b> .....	<b>128 hours</b>

\* A preparatory course in mathematics (MAT 109) may be required before admission to calculus.

\*\* Properly selected electives will allow a student to complete pre-veterinary medicine training.

## DEPARTMENT OF ANTHROPOLOGY, SOCIOLOGY, AND SOCIAL WORK

### Chair

Dr. Elizabeth Throop  
(859) 622-1644  
Keith 223

### Faculty

A. Banks, P. Black, K. Carmean, J. Curra, M. Gore,  
P. Litzelfeiner, S. McSpirit, K. Miller, M. Miranda, P. Moore,  
C. Olson, P. Paolucci, S. Savage, D. Smith, E. Throop,  
E. Underwood, J. Westerfield and P. Winther

### Baccalaureate Degrees

#### ANTHROPOLOGY (B.A.)

CIP Code: 45.0201

Anthropology is the study of human diversity. It explores the meaning of being human – from the study of culture and social relations, to human biology and physical evolution, to language, to music, art and to vestiges of human habitation. Anthropology addresses fascinating questions such as how peoples' behavior changes over time, how and why people from distant parts of the world and dissimilar cultures are in many ways similar, how the human species has evolved over millions of years, and how individuals understand and operate successfully in distinct cultural settings. Anthropology includes four sub-fields: cultural anthropology, physical anthropology, archaeology, and linguistics. The Anthropology program at ECU offers exposure to all of these sub-fields, with the opportunity to specialize, if so desired. Two great reasons to study anthropology include: 1) study topics are intellectually exciting; and 2) Anthropology prepares students for excellent job and opens doors to various career paths. Anthropological study provides training particularly well suited to the 21<sup>st</sup> century. Anthropology is the only contemporary discipline that approaches human questions from historical, biological, and cultural perspectives. As a result, career opportunities exist in academic, corporate, nonprofit and government settings. Many anthropologists with bachelor's degrees work for contract archaeology firms at archaeological sites, in physical anthropology laboratories, and in museums in a wide range of areas. International health organizations and development banks employ anthropologists to help design and implement a wide variety of programs. Governmental organizations use anthropologists in planning, research, and managerial capacities. Forensic anthropologists find work in university and museum settings along with police departments to help identify mysterious or unknown remains. Anthropology is a career that embraces people of all kinds. It is a discipline that thrives with heterogeneity – in people, ideas, and research methods. Anthropologists know the wisdom of listening to multiple voices and linking the work coming from researchers who bring different backgrounds and apply various approaches to their endeavors.

<b>Major Requirements</b> .....	<b>33 hours</b>
ANT 120, 200, 201, 350, 395 and at least one course from each of the following three categories, for a total of 18 hours: Archaeology: ANT 340, 355, 357, 360, 439, 470; Cultural Anthropology: ANT 375 or 330, 333; Physical Anthropology: ANT 306, 365, 380, or 385; ANT 490 will be classified where appropriate.	
<b>General Education Requirements</b> .....	<b>48 hours</b>
Standard General Education program. Refer to Section Four of this <i>Catalog</i> for details on the General Education and University requirements.	
<b>University Requirement</b> .....	<b>1 hour</b>
ASO 100.	
<b>Free Electives</b> .....	<b>46 hours</b>
<b>Total Curriculum Requirements</b> .....	<b>128 hours</b>

### SOCIAL WORK (B.S.W.)

*CIP Code: 44.0701*

The Social Work Program prepares students for beginning generalist social work practice. The primary purpose of the social work profession is to enhance human wellbeing. Social workers help meet the basic human needs of all people and empower those who are vulnerable, oppressed, or living in poverty. Social workers help identify and manage the environmental forces that create, contribute to, and address problems in living. Social workers are an integral part of most non-profit agencies and also offer their services and knowledge in private practice. The social work program has been continuously accredited by the Council on Social Work Education since 1977.

#### ADMISSION AND PROGRESSION

Any student who is accepted by the University Admissions Office and declares his/her major as social work will be classified as a pre-social work major. Admission to pre-social work does not guarantee admission to the Professional Social Work Program. Admission to the program is required for progression in the major beginning with SWK 350 and 354. To be admitted students must have earned at least 32 hours of college credit, meet the minimum program GPA requirement of 2.50, complete SWK 210 and other supporting course work with a minimum grade of "C," and successfully complete application procedures. Students choosing to double-major must declare social work as the first major. For admission requirements and procedures contact the Social Work Program office.

#### MISSION AND GOALS

The Social Work Program provides a student-centered, collaborative and dynamic environment that prepares students for competent and ethical generalist bachelor level practice. The Program goals are to: (1) provide a fluid curriculum grounded in a liberal arts perspective that appreciates the history of the profession and the needs of the region with different size systems in a variety of settings; (2) integrate into the Program the values of the social work profession and socialization into those values through self assessment and self awareness; (3) integrate social work ethical principles throughout the Program and curriculum; and (4) provide an environment that promotes critical understanding of oppression, populations at-risk, economic and social justice.

<b>Major Requirements</b> .....	<b>45 hours</b>
SWK 210, 225, 310, 311, 335, 350, 354, 355, 358, 360, 390, 410, and 490.	
<b>Supporting Course Requirements</b> .....	<b>15 hours</b>
POL 101, PSY 200, SOC 131, 232, and 400.	
<b>General Education Requirements</b> .....	<b>42 hours</b>
Standard General Education program, excluding blocks VB and VC. Refer to Section Four of this <i>Catalog</i> for details on the General Education and University requirements.	
<b>University Requirement</b> .....	<b>1 hour</b>
ASO 100.	
<b>Free Electives</b> .....	<b>25 hours</b>
To broaden their experience and knowledge, students are encouraged to complete their programs with electives selected from anthropology, child development, economics, health, foreign language, law enforcement, political science, psychology, recreation, sociology, special education, and speech.	
<b>Total Curriculum Requirements</b> .....	<b>128 hours</b>

### SOCIOLOGY (B.A.)

*CIP Code: 45.1101.01*

The sociology program provides students with an advanced understanding of social structure, social institutions, human groups, social stratification, social interaction, social relationships, social deviance (crime, juvenile delinquency), and social change. Sociology faculty are skilled in teaching the theoretical foundations of sociology and methods of social research, while they teach students to think critically. The broad knowledge base of sociology, combined with basic skills in research methods and analysis, contributes to a person's flexibility in a rapidly changing economy where specialized jobs often become outdated. Students who major in sociology possess the advantage of a more general foundation upon which to adapt to changes in the labor market, because they are taught to think critically, communicate effectively, and respond constructively to the challenges and opportunities they will encounter. A major in sociology provides a gateway to many different careers. Many sociology graduates move into professional careers in the following areas: social services, law enforcement, human relations, law and legal services, policy analysis, teaching, and health fields. Others find employment in management and administrative careers in government agencies as well as in a wide range of private sector firms. Still others work to achieve their goals in less traditional careers such as grassroots activism or private entrepreneurship.

<b>Major Requirements</b> .....	<b>36 hours</b>
SOC 131, 232, 395, 460, 461; a minimum of three hours from SOC 420, 463, 465, 480; and 18 hours of sociology electives, 15 of which must be upper division hours.	
<b>General Education Requirements</b> .....	<b>48 hours</b>
Standard General Education program. Refer to Section Four of this <i>Catalog</i> for details on the General Education and University requirements.	
<b>University Requirement</b> .....	<b>1 hour</b>
ASO 100.	
<b>Free Electives</b> .....	<b>43 hours</b>
<b>Total Curriculum Requirements</b> .....	<b>128 hours</b>

**Minors**

**MINOR IN ANTHROPOLOGY**

A student may minor in Anthropology by taking a minimum of 18 hours as follows: ANT 120, 200, 201, 350 and six hours of upper division anthropology electives.

**MINOR IN ARCHAEOLOGY**

A student may minor in Archaeology by taking a minimum of 18 hours as follows: ANT 200, 350 and twelve hours of upper division archaeology electives selected from ANT 340, 355, 357, 360, 439, 470, and 490 (if archaeological topic).

**MINOR IN CANADIAN STUDIES**

A student may minor in Canadian Studies by taking a minimum of 18 hours as follows: ANT 332 and 15 hours selected from: ANT 333, ANT 499 or POL 499, and Canadian topics in the following courses: HIS 300 (e.g., History of Canada), POL 405 (e.g., Government and Politics of Britain and Canada; Politics of the North American Auto Industry; Comparative Civil Liberties: United States, Canada, and Germany; Political Economy and Environment of Canada; North American Politics: United States and Canada), POL 410 (e.g., Canadian Politics), SWK 455 (e.g., Family Violence in the United States and Canada.)

**MINOR IN DEVIANCE/CRIMINOLOGY**

A student may minor in Deviance/Criminology by completing the following courses: SOC 131, SOC 313, SOC 340, SOC 375, and nine hours from ANT 380, FOR 301, HEA 345, CRJ 325, PSY 308, or SOC 347. Note that some of the required and elective courses have prerequisites.

**MINOR IN SOCIAL WELFARE**

A student may minor in Social Welfare by completing the following courses: SOC 131; SWK 210, 310, and 311; three hours from POL 341, 370, 371, or 374; and six hours from SWK 410, 456, 457, SOC 313, 340, 353, 365, 410, 420, 450, GEO 225, ECO 130, 231, or 365.

**MINOR IN SOCIAL INEQUALITIES**

A student may minor in Social Inequalities by completing a minimum of 18 hours as follows: SOC 399, SOC 400, SOC 463, SOC 480, and six credit hours of electives from CRJ 325, CRJ 345, HIS 305, HIS 385, HIS 386, POL 345, POL 373, POL 446, POL 451, SOC 330, SOC 345, SOC 365, SOC 375, SOC 415, SOC 460, or WMS 400. It is suggested that non-majors complete SOC 131 prior to enrolling in upper-division sociology courses. Other electives may be approved for the minor as they are offered. Note that some of the required and elective courses have prerequisites. Average GPA of courses applied to the minor must be 2.0 or better.

**MINOR IN SOCIOLOGY**

A student may minor in Sociology by completing the following courses: SOC 131 and 15 hours of sociology electives, 12 of which must be upper division. Three hours of upper division anthropology may be applied to the 15 hours.

**Certificate**

**CERTIFICATE IN PUBLIC CHILD WELFARE**

The Public Child Welfare Certification Program requires an application and interview process, practicum experiences in public welfare agencies, post graduation work commitment and maintenance of a 3.0 GPA in social work courses. In addition to the BSW degree requirements students must complete **SWK 450**.

See the Social Work Program Director for more complete information on the application and requirements for the Public Child Welfare Certification Program.

**DEPARTMENT OF ART AND DESIGN**

**Chair**

**Mr. Herb Goodman**  
(859) 622-1629  
Campbell 309

**Faculty**

**D. Afsah-Mohallatee, H. Goodman, E. Hale, I. Kumoji, B. Kurzinger, J. Molinaro, M. Ramsey, E. Randall, G. Smith, K. Spears, F. Szorad, and M. Tortorici**

**Baccalaureate Degrees**

**ART (B.A.)**

*CIP Code: 50.0702*

- Major Requirements ..... 69-70 hours**
- Studio Foundations ..... 15 hours**  
ART 100, 101, 152, 153, and 164.
- Art Core ..... 21 hours**  
ART 210, 220, 230, 240, 270, 280, 562
- Teacher Education Option ..... 37 hours**  
ART 460, EDF 103, 203, 319, 413, SED 401, EME 439, ESE 490, 540 and EMS 499.
- Liberal Arts Option ..... 36 hours**  
Additional 15 hours of art or art history electives limited to the following: ART 300, 301, 312, 321, 331, 341, 371, 381, 401, 492, 493, 496, 497, 594, 595. Additional 18 hours excluding studio art courses.
- Supporting Course Requirements ..... 9 hours**  
ARH 390, 391, and 3 hours art history electives.
- General Education Requirements ..... 42 hours**  
Standard General Education program, excluding block VIII (6 hours). Refer to Section Four of this *Catalog* for details on the General Education and University requirements.

University Requirement .....	1 hour
ASO 100.	
Free Electives .....	3-7 hours
Total Curriculum Requirements .....	128 hours

**ART/STUDIO OPTIONS (B.F.A.)***CIP Code: 50.0702*

Major Requirements .....	61-70 hours
<b>Studio Foundations</b> .....	15 hours
ART 100, 152, 153, 164 and	
<b>Interior Design:</b> DES 250.	
<b>All other areas:</b> ART 101.	
<b>Core</b> .....	19-22 hours
ART 499 and	
<b>Interior Design:</b> DES 122, 225, 325, 330, 421** (6 hours).	
<b>All other areas:</b> ART 210, 220, 230, 240, 270, 280, and 562.	
<b>Options*</b>	
<b>Ceramics</b> .....	33 hours
ART 321, 341, 371, 372, 472, 473, 474, 12 hours ART/	
DES/ARH electives.	
<b>Graphic Design</b> .....	33 hours
DES 250, 251, 350, 351, 352, 353, 354, 451, 453, 454,	
and 3 hours ART/DES/ARH electives.	
<b>Interior Design</b> .....	27 hours
DES 222, 226, 322, 326, 327, 328, 422, 426, 3 hours	
ART/DES/ARH electives.	
<b>Jewelry and Metals</b> .....	33 hours
ART 321, 341, 343, 344, 371, 443, 444, 12 hours	
ART/DES/ARH electives.	
<b>Painting</b> .....	33 hours
ART 312, 313, 314, 331, 381, 413, 414, 12 hours	
ART/DES/ARH electives.	
<b>Photography</b> .....	33 hours
ART 312, 331, 381, 382, 383, 483, 484, 12 hours	
ART/DES/ARH electives.	
<b>Printmaking</b> .....	33 hours
ART 312, 331, 332, 333, 381, 432, 434, 12 hours	
ART/DES/ARH electives.	
<b>Sculpture</b> .....	33 hours
ART 321, 322, 323, 341, 371, 423, 424, 12 hours	
ART/DES/ARH electives.	
<b>Supporting Course Requirements</b> .....	9-18 hours
<b>Interior Design:</b> ADM 302; ARH 390, 391; CON 250; TEC	
331; INT 195.	
<b>All other areas:</b> ARH 390, 391, 3 hours of ARH electives.	
<b>General Education Requirements</b> .....	42 hours
Standard General Education program, excluding block VIII	
(6 hours). Refer to Section Four of this <i>Catalog</i> for details	
on the General Education and University requirements.	
<b>University Requirement</b> .....	1 hour
ASO 100.	
<b>Free Electives</b> .....	6 hours
<b>Total Curriculum Requirements</b> .....	128 hours

\*Probationary candidacy and eventual advanced study for the BFA is conditional upon meeting qualifications and having a portfolio reviewed no earlier than the fourth semester (transfers must have 24 hours in Art and/or Design). Students wishing to pursue the BFA degree should consult with a departmental advisor to obtain a copy of the "Entrance Criteria and Degree Requirements for the BFA in Art and Design" in effect for their area at the time of their initial application for admission to the program.

\*\*Students not meeting the requirements for DES 421 will take other ART/DES electives or repeat ART/DES required courses.

**Minors****MINOR IN ART (ART HISTORY)**

A student may minor in art history by completing a minimum of 18 hours as follows: ART 390, 391, 562 and nine hours of art history electives.

**MINOR IN ART (STUDIO)**

A student may minor in art studio by completing a minimum of 18 hours as follows: ART 100, 152, 153; 390 or 391; and six hours of art electives.

**MINOR IN ART (TEACHING)**

A student may minor in art (teaching) by completing a minimum of 24 hours as follows: ART 100, 152, 153, 210, 390, 391, 460; EME 439 or ELE 361.

**DEPARTMENT OF BIOLOGICAL SCIENCES****Chair**

**Dr. Robert Frederick**  
(859) 622-1531  
Moore 235

**Faculty**

**S. Byrd, P. Calie, R. Clark, P. Cupp, D. Eakin, C. Elliott, M. Foster, R. Frederick, M. Frisbie, J. Harley, S. Harrel, C. Ivans, R. Jones, M. Pierce, B. Ramey, G. Ritchison, G. Schuster, W. Staddon, and S. Sumithran**

**Baccalaureate Degrees****BIOLOGY (B.S.)***CIP Code: 26.0101*

<b>Major Requirements</b> .....	35-36 hours
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**Biology Core**

BIO 121, 131, 141, 315, 316, 320; 328 or 348; 490, 514, and one elective in biology at the 300-500 level.

**Options****Aquatic Biology** .....

BIO 525, 542, 557, 558, and one course from BIO 340, 556, 561.

**Botany** .....

BIO 335, 521, 598\*\*, and two courses from BIO 522, 525, 536, 599; BIO 531 or CHE 530 and 532.

**Microbial, Cellular and Molecular Biology**

..... 15 hours  
 BIO 331, 527 or 530, 531, and at least five hours from  
 BIO 511, 527 or 530 (must take course not taken as  
 requirement in the option), 528, and 598.

**Supporting Course Requirements ..... 32-33 hours**

CHE 111, 115, 112, 116 or 116H, 361, 366, 362 and 367;  
 MAT 124\* or 261\*; PHY 131, 132; STA 215 or STA 270.

**General Education Requirements ..... 30 hours**

Standard General Education program, excluding blocks II,  
 IVA, IVB, VII (QS), and VIII (6 hours). Refer to  
 Section Four of this *Catalog* for details on the General  
 Education and University requirements.

**University Requirement ..... 1 hour**

ASO 100.

**Free Electives ..... 12-15 hours****Total Curriculum Requirements ..... 128 hours**

\*A preparatory course in mathematics (MAT 109) may be required  
 before admission to calculus.

\*\*Must enroll for 3 hours credit.

**BIOLOGY/TEACHING (B.S.)**

*CIP Code: 26.0101*

Refer to the College of Education section of this *Catalog*  
 regarding several teacher certification requirements associated with  
 this degree program.

**Major Requirements ..... 35-36 hours**

BIO 121, 131, 141, 315, 316, 320; 328 or 348; 490, 514,  
 one biology elective at the 300-500 level.  
 Strongly recommended: completion of a minor.

**Supporting Course Requirements ..... 33-37 hours**

CHE 111, 115, 112, 116 or 116H, 361, 366; 362 and 367,  
 or 330; CSC 104; MAT 107 or 109 or 124\* or 261\*; PHY  
 131; PHY 132 or GLY 108; STA 215 or STA 270.

**Professional Education Requirements ..... 31 hours**

EDF 103, 203, 319, 413, SED 401, ESE 441, 498, 499.

**General Education Requirements ..... 30 hours**

Standard General Education program, excluding blocks II,  
 IVA, IVB, VII (QS), and VIII (6 hours). Refer to Section  
 Four of this *Catalog* for details on the General Education  
 and University requirements.

**University Requirement ..... 1 hour**

ASO 100.

**Total Curriculum Requirements ..... 130-135 hours**

\*A preparatory course in mathematics (MAT 109) may be required  
 before admission to calculus.

**ENVIRONMENTAL STUDIES (B.S.)**

*CIP Code: 26.1301*

**Major Requirements ..... 33-34 hours**

BIO 121, 131, 316, 320; CHE 111, 115, 112, 116 or 116H;  
 GLY 108 and GLY 109 and GLY 415 or GLY 504.

**Supporting Course Requirements ..... 18 hours**

CSC 104 or CIS 212, EHS 280, ENG 300, PHI 130,  
 POL 374; STA 215 or STA 270.

**Students Majoring in Environmental Studies must Select  
 One of the Following Program Options: ..... 12-16 hours****Land Resources ..... 12-13 hours**

BIO 490; BIO 558 or GLY 535; BIO 521 or BIO 536;  
 must choose 2 of the following: AGR 315 or 318; ECO  
 340, EHS 300, 335.

**Natural History ..... 16 hours**

BIO 514, 553, 554; BIO 335 or BIO 536; BIO 542  
 or 556 or 557; BIO 490.

**Supporting Course Requirements in the****Options ..... 19-23 hours****Land Resources ..... 22-23 hours**

AGR 215, CHE 325, GEO 325, 351 and 353, MAT 107  
 and MAT 108, or MAT 109; must choose 1 of the  
 following: BIO 349 (3 hours), 489, CHE 495, GEO 498,  
 GLY 398.

**Natural History ..... 19-21 hours**

BIO 141, 315; MAT 107 and 108, or 109; Must choose  
 2 of the following: ANT 350; BIO 328 or 348; BIO 335,  
 525, 536, 542, 556, 557, GEO 351, HIS 516.

**General Education Requirements ..... 30 hours**

Standard General Education program, excluding general  
 education course blocks II, IIIB, IVA, VII (QS), and VIII  
 (6 hours). Refer to Section Four of this *Catalog* for details  
 on the General Education and University requirements.

**University Requirement ..... 1 hour**

ASO 100.

**Free Electives ..... 8-12 hours****Total Curriculum Requirements ..... 128 hours****WILDLIFE MANAGEMENT (B.S.)**

*CIP Code: 03.0601*

**Major Requirements ..... 60-62 hours**

BIO 121, 131, 141, 316, 335, 381, 382, 489, 490, 514, 553,  
 554, 557, 584, 585, 586, 587; 558 or 561; BIO 380 or GEO  
 325.

**Supporting Course Requirements ..... 26-27 hours**

CHE 101, 102; MAT 108, MAT 124\* or MAT 261\*; STA  
 215 or STA 270; AGR 215; GEO 351, 353; one class from the  
 following:  
 COM 200, COM 201; CMS 250, 310, 320, 325, 375, 400,  
 420, 450; ENG 300, 301; JOU 305.

**General Education Requirements ..... 30 hours**

Standard General Education program, excluding blocks II,  
 IVA, IVB, VII (QS), and VIII (6 hours). Refer to  
 Section Four of this *Catalog* for details on the General  
 Education and University requirements.

**University Requirement ..... 1 hour**

ASO 100.

**Free Electives ..... 8-11 hours****Total Curriculum Requirements ..... 128 hours**

\*A preparatory course in mathematics (MAT 109) may be required  
 before admission to MAT 124.

**Minor****MINOR IN BIOLOGY**

A student may qualify for a minor in biology by completing 21 semester hours to include BIO 121, 131, 141, and nine additional hours selected from those 300 through 500 level courses normally taken for one of the majors in the department.

Students may also seek a minor in biology in conjunction with the completion of a teaching certificate, which will qualify them to teach biology at the secondary level. Teacher certification with a minor in biology requires the same 21 semester hours of course work stipulated in the above paragraph.

**DEPARTMENT OF CHEMISTRY****Chair**

**Dr. Alan Schick**  
(859) 622-1456  
Moore 337

**Faculty**

**D. Bautista, M. Brock, E. Dueno, S. Godbey, A. Schick,  
D. Smith, D. Tofan, D. Vance, and L. Wilson**

**Baccalaureate Degrees****CHEMISTRY (B.A)**

*CIP Code: 40.0501*

**Major Requirements ..... 30-31 hours**  
CHE 111, 115, 112, 116 or 116H, 325, 361, 362, 366, 367, 470, plus six hours of upper division chemistry electives (which may include FOR 411).

**Supporting Course Requirements ..... 14-54 hours**  
**Chemistry Option ..... 14 hours**  
MAT 124\*; PHY 131 or 201; PHY 132 or 202.

**Chemistry Teaching Option\*\* ..... 54 hours**  
MAT 124\*; PHY 131 or 201; PHY 132 or 202;  
CNM 101, 102; EDF 103, 203; EPY 319, 413;  
SED 401; ESE 490, 499, 551; GLY 302.

**General Education Requirements ..... 36 hours**  
Standard General Education program, excluding blocks II, IVB, and VIII (6 hours). Refer to Section Four of this *Catalog* for details on the General Education and University requirements.

**University Requirement ..... 1 hour**  
ASO 100.

**Free Electives ..... 8-47 hours**  
**Total Curriculum Requirements ..... 128 hours**

\* A preparatory course in mathematics (MAT 109) may be required before admission to MAT 124.

\*\*Following this curriculum and passing the appropriate standardized teacher exams will lead to certification to teach chemistry at the secondary education level.

**CHEMISTRY (B.S.)**

*CIP Code: 40.0501*

**Major Requirements ..... 41-45 hours**  
**Chemistry Core ..... 28-29 hours**  
CHE 111, 115, 112, 116 or 116H, 325, 361, 362, 366, 367, 471, 472, 473 and must include one of the following options:

**Options\*\***

**Biochemistry ..... 13 hours**  
CHE 480, 481, 525, 530, 531, 532.

**Chemistry ..... 16 hours**  
CHE 480, 481, 515, 525, 530, 550. For the program to be approved by the ACS, the student must elect six additional hours of advanced chemistry courses.

**Supporting Course Requirements ..... 22-34 hours**  
**Biochemistry ..... 34 hours**  
BIO 121; 131 or 141; 315 or 320; MAT 124\*, 224, 225, PHY 201, 202.

**Chemistry ..... 22 hours**  
MAT 124\*, 224, 225, PHY 201, 202. A year of foreign language is recommended.

**General Education Requirements ..... 30-33 hours**  
Standard General Education program, excluding blocks II, IVB, VII (QS), and VIII (6 hours) (chemistry) or course blocks II, IVA, IVB, VII (QS), and VIII (6 hours) (biochemistry). Refer to Section Four of this *Catalog* for details on the General Education and University requirements.

**University Requirement ..... 1 hour**  
ASO 100.

**Free Electives ..... 22-27 hours**  
**Total Curriculum Requirements ..... 128 hours**

\* A preparatory course in mathematics (MAT 109) may be required before admission to calculus.

\*\* CHE 349 or 349 A-N may not be used to satisfy area, major, or minor requirements.

**FORENSIC SCIENCE (B.S.)**

*CIP Code: 43.0106*

**Major Requirements ..... 49-56 hours**  
**Core Requirements ..... 39-40 hours**  
CHE 111, 115, 112, 116 or 116H, 325, 361, 362, 366, 367, 470, FOR 301, 411, 465, 495\* and must include one of the following options.

**Forensic Chemistry Option ..... 16 hours**  
FOR 412, 451, six hours of 400 level forensic science electives, three hours upper division chemistry electives.\*\*

**Forensic Biology Option ..... 10-11 hours**  
BIO 315, 331 or 531; CHE 530 or 531.

**Supporting Course Requirements ..... 24-25 hours**  
BIO 121, LAS 210 or PLS 316; MAT 124\*\*\* or 261\*\*\*; PHY 131 or 201; PHY 132 or 202; STA 270.

**General Education Requirements ..... 30 hours**  
Standard General Education program, excluding blocks II, IVA, IVB, VII (3 hours), and VIII (6 hours). Refer to Section Four of this *Catalog* for details on the General Education and University requirements.

<b>University Requirement .....</b>	<b>1 hour</b>
ASO 100.	
<b>Free Electives .....</b>	<b>16-24 hours</b>
<b>Total Curriculum Requirements .....</b>	<b>128 hours</b>

Must have a cumulative GPA of 2.5/4.0 or better.

\*May be retaken to a maximum of 12 hours, but only the required six hours are counted toward the major.

\*\*CHE 330, 349 and 495 may not be used toward the upper division chemistry requirement.

\*\*\*A preparatory course in mathematics (MAT 109) may be required before admission to calculus.

## Minors

### MINOR IN CHEMISTRY

A student may minor in chemistry by completing CHE 111, 115, CHE 112, 116 or 116H plus an additional 12 hours of upper division chemistry.

### MINOR IN CHEMISTRY (TEACHING)

A student may obtain a teaching minor in chemistry by completing CHE 111, 115, CHE 112, 116 or 116H plus an additional 12 credits of upper division chemistry.

[Note: Given the scope of the required PRAXIS exam that must be passed for a certificate extension in chemistry, the following courses are particularly recommended for students seeking a teaching minor in chemistry: CHE 325, 330, 361/366, and 470.]

## DEPARTMENT OF COMPUTER SCIENCE

Acting Chair  
**Dr. Ka-Wing Wong**  
 (859) 622-2398  
 Wallace 417

### Faculty

**K. Chang, B. Janeway, D. Morgan, J. Rezaie, C. Rhee,  
 E. Styer, A. Tarek, K. Wong, and S. Zhang**

### Baccalaureate Degree

#### COMPUTER SCIENCE (B.S.)

*CIP Code: 11.0101*

### **Program Objectives**

Upon completion of this program the graduate will: (1) have a working knowledge of some common programming languages and operating systems; (2) have experience with analysis of software systems, design, documentation, and implementation techniques

both as an individual and as a member of a design team; (3) have experience with analysis of hardware systems, design, and implementation techniques; and (4) be qualified for employment as a computer scientist in industry or in government. In addition, (1) graduates under the accredited general computer science option will be prepared to enter a graduate program in computer science; (2) graduates under the computer technology option will be able to take appropriate network certification examination(s), such as Microsoft Network Certification; and (3) graduates under the computer technology option will be qualified to program industrial and process control systems.

### **Major Requirements ..... 48-54 hours**

#### **Computer Science Core ..... 42 hours**

CSC 160, 190, 191, 195, 200, 310, 312, 330, 340, 370, 440, 460 and two of CSC 300, 320, 350, 390, 400, 425, 490, 540, 545, 546 and 550 that are not required by the option.

#### **Options**

#### **Computer Science (General) ..... 6 hours**

*(Accredited by the Computer Science Accreditation Commission of the Computer Science Accreditation Board)*

CSC 320, 400.

#### **Computer Technology ..... 12 hours**

EET 254, 302, 303, 354.

### **Supporting Course Requirements ..... 21-35 hours**

#### **Computer Science (General) ..... 31-35 hours**

EET 252; MAT 124 or 124H; 214; 224 or 224H; STA 270. Four courses in the natural sciences which must include one biological lab science course and one physical lab science course. Two of these four courses must also be one of the following sequences: BIO 121 and one of BIO 131, 141; CHE 111/115, 112/116; GLY 108, 109; or PHY 201, 202. The other two courses must be chosen from the above sequence courses or from the following: PHY 131, 132, or any 200 level or above science course that counts toward a science major.

#### **Computer Technology ..... 21-22 hours**

3 hours of CSC 349<sup>1</sup>; EET 251, 252, 253, 257, 351; one of MAT 124\*, 124H, 211\* or 261\*.

### **General Education Requirements ..... 30-45 hours**

#### **Computer Science (General) ..... 30 hours**

Standard General Education program, excluding blocks II, IVA, IVB, VII (QS), and VIII (6 hours). Refer to Section Four of this *Catalog* for details on the General Education and University requirements.

#### **Computer Technology ..... 45 hours**

Standard General Education program, excluding block II. Refer to Section Four of this *Catalog* for details on the General Education and University requirements.

### **University Requirement ..... 1 hour**

ASO 100.

### **Free Electives ..... 9-18 hours**

#### **Computer Science (General) ..... 14-18 hours**

#### **Computer Technology ..... 6-7 hours**

### **Total Curriculum Requirements ..... 128 hours**

<sup>1</sup>Under special circumstances, a student may seek an administrative waiver of the CSC 349 requirement from the Computer Science Curriculum Committee and the department chair. Waiver recipients are required to complete three semester hours of additional course work approved by the Computer Science Curriculum Committee.

\*A preparatory course in mathematics (MAT 109) may be required before admission to calculus.

### Minor

#### MINOR IN COMPUTER SCIENCE

A student may minor in computer science by completing CSC 160, 190, 191, 195, 310, 330 and one of CSC 200, 312, or 320.

## DEPARTMENT OF EARTH SCIENCES

### Chair

TBA

(859) 622-1273

Roark 103

### Faculty

W. Borowski, M. Dieckmann, S. Farrar, R. Lierman,  
B. MacLaren, and J. White

### Baccalaureate Degree

#### EARTH SCIENCE/TEACHING (B.S.)

*CIP Code: 40.0703*

#### **Major Requirements ..... 30-32 hours**

AGR 215; AST 135; GEO 215; GLY 108, 109, 303, 304, 351; two from the following: GLY 309, 408, 410, 415, 420, 512, and 550.

#### **Minor Requirements ..... 14-21 hours**

A minor must be taken in an approved base teaching certificate area.

#### **Supporting Course Requirements ..... 18-22 hours**

BIO 100 or BIO 121; GLY 210 or CHE 100 or 101 and 107 or 111 and 115; MAT 108 or higher; PHY 101, 102, or 131; CSC 104 or CIS 212.

#### **Teacher Education Requirements ..... 31 hours**

EDF 103, 203; 319, 413; SED 401; ESE 490, 499, and 551.

#### **General Education Requirements ..... 36 hours**

Standard General Education program excluding blocks II, VA, VB, and VII (QS). Refer to Section Four of this *Catalog* for details on the General Education and University requirements.

#### **University Requirement ..... 1 hour**

ASO 100.

#### **Total Curriculum Requirements ..... 130-143 hours**

#### **GEOLOGY (B.S.)**

*CIP Code: 40.0601*

#### **Major Requirements ..... 44 hours**

GLY 107 or 108 or 109 or 172 or 302 or 303 or 304 or NAT 305; GLY 309, 315, 409, 410, 415, 420, 550; a minimum of 15 additional hours from GLY 351, 408, 490, 499, 512, 540, 580, GEO 355, GEO 553, GEO 556, and STA 215 or 270. The student may elect to substitute GLY

451 or an approved six semester hour summer field camp in geology for GLY 351 and one other course.

#### **Supporting Course Requirements ..... 15-17 hours**

BIO 100 or BIO 121; GLY 210 or CHE 111 and 115; GEO 353 or 355; MAT 108 or higher; PHY 101 or higher.

#### **General Education Requirements ..... 39 hours**

Standard General Education program excluding blocks II, VA, and VB. Refer to Section Four of this *Catalog* for details on the General Education and University requirements.

#### **University Requirement ..... 1 hour**

ASO 100.

#### **Free Electives ..... 27-29 hours**

#### **Total Curriculum Requirements ..... 128 hours**

### Minors

#### MINOR IN GEOLOGY

A student may minor in geology by completing a minimum of 18 semester hours as follows: GLY 107 or 108 or 109 or 172 or 302 or 303 or 304 or NAT 305; a minimum of 15 additional hours of upper-division geology courses.

#### MINOR IN EARTH SCIENCE/TEACHING

A student may minor in earth science (teaching) by completing a minimum of 21 semester hours as follows: GLY 108, 109, 304; GEO 215; AST 135; and any two from the following: GLY 303, 309, 351, 408, 410, 415, 420, and 550; or approved electives from astronomy or geography. The teaching minor in earth science must be coupled with a teaching major in biology, chemistry, computer science/mathematics, mathematics, or physics.

## DEPARTMENT OF ECONOMICS

### Acting Chair

Dr. Fred Ruppel

(859) 622-1769

Beckham 237

### Faculty

S. Dickey, J. Harter, R. Houston, J. O'Connor, F. Ruppel,  
J. Wade, and T. Watkins

### Baccalaureate Degree

#### ECONOMICS (B.A.)

*CIP Code: 45.0601*

Upon completion of a degree in Economics students will: 1) demonstrate a solid knowledge of modern microeconomic and macroeconomic theory; 2) demonstrate the capacity to apply their knowledge of economic theory to issues of public policy and to problems faced by decision makers in the private sector; 3) demonstrate the capacity to do empirical work in economics, including problem formulation, the retrieval and documentation of data, and statistical techniques; 4) demonstrate the capacity to communicate effectively with different audiences. Additionally, students will be prepared for careers in government and business.

Recent graduates are employed in commercial and investment banking, insurance, sales, manufacturing, retailing, and all levels of government. In fact, the federal government hires more Economics students than any other major.

**Major Requirements ..... 33 hours**

A minimum grade of “C” is required in all courses counted towards the major.

**Economics Core ..... 21 hours**

ECO 220, 230, 231, 320, 330, 331, and 420 or 490.

Majors must select an option in General Economics, Applied Economics, International Economics, or Public Policy. General Economics students must take ECO 420.

**Options ..... 12 hours**

**General Economics ..... 12 hours**

Twelve hours of upper division economics courses.

**Applied Economics ..... 12 hours**

ECO 300 and nine hours of upper division economics courses.

**International Economics ..... 12 hours**

ECO 394, 395, and six hours of upper division economics courses.

**Public Policy ..... 12 hours**

ECO 315, 365, and six hours from ECO 324, 333, 370, 394, 580 or 590.

**Supporting Course Requirements ..... 21 hours**

Additional supporting course requirements beyond those specified below must be approved by the advisor in consultation with the Chair of the Department of Economics.

**General Economics:** MAT 211 plus 18 hours of courses as noted above.

**Applied Economics:** MAT 107 or 211; six hours of courses as noted above; and twelve hours from a list of approved courses within specific program areas, including (but not limited to) Agriculture, Construction Technology, and Travel and Tourism.

**International Economics:** MAT 107 or 211; six hours of courses as noted above; and one of the following three alternatives: (1) twelve hours of foreign language, (2) twelve hours of area studies to be pre-approved by the advisor and the Chair, or (3) twelve hours from the core and elective courses listed in the International Studies minor.

**Public Policy:** MAT 107 or 211; POL 101, 321, 374; three hours from POL 370, 371, 377; plus six hours of courses as noted above.

**General Education Requirements ..... 45 hours**

Standard General Education program, excluding general education block II. Refer to Section Four of this *Catalog* for details on the General Education and University requirements.

**University Requirement ..... 1 hour**

ASO 100.

**Free Electives ..... 28 hours**

**Total Curriculum Requirements ..... 128 hours**

**Minor**

**MINOR IN ECONOMICS**

A minor in economics is available to students in any college and requires completion of the following courses with a minimum grade of “C” in each course and with at least nine of the upper

division hours earned at EKU: ECO 230, 231 and twelve hours upper division courses in economics.

**DEPARTMENT OF ENGLISH AND THEATRE**

**Chair**

**Dr. James Keller**  
**(859) 622-5861**  
**Case Annex 467**

**Coordinator of Theatre Programs**

**James Moreton**  
**(859) 622-1315**  
**Campbell 306**

**Faculty**

**E. Allameh, T. Butler, G. Bedetti, H. Bennett, H. Blythe, J. Boord-Dill, L. Bosley, J. Bryant, R. Clewett, C. Cook, D. Core, K. Creech, L. Day-Lindsey, M. Dean, D. Elias, K. Flann, R. Freed, S. Garland, A. Gossage, R. Hardwick, T. Houghton, A. Hunt, G. Hunter, B. Hussey, K. Johnson, J. Keller, J. Kenkel, P. Kopacz, P. Kristofik, S. Kroeg, J. Mace, M. MacLaren, S. Martin, K. McQueen, R. Milde, C. Moore, J. Moreton, R. Mott, M. Myers, G. Nachtwey, C. Neumann, S. Nnoromele, K. Rahimzadeh, C. Rich, S. Robinson, K. Siahkoohi, M. Smith, Y. Smith, J. Stanfill, C. Sweet, B. Szubinska, D. Tenenbaum, H. Tracy, S. Tsiang, E. Walker, and K. Warner**

**Baccalaureate Degrees**

**ENGLISH (B.A.)**

*CIP Code: 23.0101*

Upon completion of an English degree with a Literature emphasis, graduates will: 1) demonstrate a clear sense of the chronological and thematic development of British and American literature, familiarity with canonical writers and works of the age, and a more specialized knowledge in various genres, periods, authors, and literary trends; 2) be prepared for post-baccalaureate professional lives; 3) demonstrate the ability to think, speak, and write more effectively as literary critics. Upon completion of an English degree with a Creative Writing emphasis, graduates will: 1) write a publishable work, critical or creative, and submit it through traditional means/e-submissions; 2) possess knowledge of appropriate writers, the history, pedagogies/theories/genres, 3) possess knowledge of and apply basic research methods in their works, creative or critical, as well as use these skills to research the literary/popular marketplace. Upon completion of the English degree with a Technical Writing emphasis, graduates will: 1) produce various types of technical documents required in the workplace that reflect knowledge of audience, purpose, clarity, and precision; 2) demonstrate competence with hardware/software expected of technical/professional writers.

**Major Requirements ..... 40-54 hours****Core ..... 10 hours**

ENG 301, 302\*\*, 474, 499.

**Options****Literature Emphasis ..... 30 hours**

ENG 350, 351, 352, 353, 410, and a minimum of 15 additional upper division literature hours, three of which must be in British literature and three in American literature, nine of the hours must be at the 400 and 500 level.

**Creative Writing Emphasis ..... 30 hours**

ENG 350, 351, 352, 353, 410, 490; a minimum of 12 additional hours selected from the following: ENG 306, 406, 407, 408, 409, 420, 502, 503, 504, or one course, for which prerequisites have been met, from the Technical Writing Emphasis.

**Technical Writing Emphasis ..... 30 hours**

ENG 350, 351, 352, 353, 410, and a minimum of 15 hours to include ENG 300, 400, 420, 491 and three hours selected from ENG 306, 406, 409, 500, 502, 510.

**Theatre Emphasis ..... 44 hours**

ENG 335, 430, and THE 110, 135, 150, 200, 210, 220, 235; 285 or 385; three hours from THE 310, 311 or 320; THE 341, 390, 391, and 130/330 (4).

**Supporting Course Requirements****Literature Emphasis ..... 12 hours**

Six hours of a particular foreign language\* or American Sign Language and six hours from the following with no more than three hours from any one group: CMS 210, 300, 310; HIS 336, 340, 345, 346; THE 390, 391; CIS 212 or CSC 104.

**Creative Writing Emphasis ..... 12 hours**

Six hours of a particular foreign language\* or American Sign Language and six hours from the following with no more than three semester hours from any one group: CMS 320, 350; COM 201, JOU 305, 307; CIS 212 or CSC 104.

**Technical Writing Emphasis ..... 18 hours**

Six hours of a particular foreign language\* or American Sign Language and twelve hours from the courses below: CCT 290, 302, 570; ART 152, BEM 375; CIS 212 or CSC 104; COM 320A (one credit), 320B, 320C, 320D, 320E, 320F, 320G, 320H, and 320I; TEC 255, 355; CMS 250, 300, 320, 350; CSC 160, 177, 190; GCM 211, 212, 217, 316, 317.

**General Education Requirements ..... 42-48 hours**

Standard General Education program excluding block VIII (6 hours) for the Literature Emphasis, Creative Writing Emphasis, or Technical Writing Emphasis. Refer to Section Four of this *Catalog* for details on the General Education and University requirements.

**University Requirement ..... 1 hour**

ASO 100.

**Free Electives ..... 27-33 hours****Total Curriculum Requirements ..... 128 hours**

\* 3-6 hours may be waived for high school foreign language study. For details, see Foreign Language Placement and Waiver Guidelines.

\*\*Should be taken before enrolling in upper level literature courses (with the exception of ENG 350, 351, 352, 353, and 499).

**ENGLISH/TEACHING (B.A.)**

CIP Code: 23.0101

Upon completion of an English/Teaching degree, graduates will: 1) demonstrate the ability to analyze and produce texts; 2) demonstrate knowledge of English content areas: literature, language, and composition; 3) demonstrate competency in composing expository essays.

**Major Requirements ..... 37-56 hours****Core ..... 22 hours**

ENG 301, 302\*\*, 350 or 351; 352 or 353; 405, 410, 499; 510 or 520.

**Options****English Emphasis ..... 15 hours**

ENG 440, 474; and at least nine additional upper division hours, three of which must be American literature and three British literature; six of these additional hours must be at the 400 level or above.

**Theatre Emphasis ..... 31 hours**

THE 110, 135, 150, 200, 220, 235, 130/330 (2), 341, 390 and 391; ENG 335 or 430 or 474.

**Supporting Course Requirements ..... 6-9 hours****Options****English Emphasis ..... 6 hours**

Six hours of one foreign language\* at the appropriate level or American Sign Language.

**Theatre Emphasis ..... 9 hours**

CMS 100, 205, and 210.

**Professional Education Requirements ..... 34 hours**

EDF 103, 203, 319, 413, SED 401; ESE 490, 499, 543, and 574.

**General Education Requirements ..... 42-45 hours**

Standard General Education program excluding Block VIII (6 hours) for the English Emphasis and Block IC for the Theatre Emphasis. Refer to Section Four of this *Catalog* for details on the General Education and University requirements.

**Free Electives ..... 0-8 hours****University Requirement ..... 1 hour**

ASO 100.

**Total Curriculum Requirements ..... 128-142 hours**

\* 3-6 hours may be waived for high school foreign language study. For details, see Foreign Language Placement and Waiver Guidelines.

\*\*Should be taken before enrolling in upper level literature courses (with the exception of ENG 350, 351, 352, 353, and 499).

**TEACHING ENGLISH AS A SECOND LANGUAGE  
ENDORSEMENT**

Students planning to add a teaching English as a second language endorsement to their certification need to take ENG 510, 515, 520, and, in addition to other teacher education requirements listed, EMS 575.

**Minors**

**MINOR IN ENGLISH**

**Requirements ..... 18 hours**  
 ENG 301, 302\*\*, and at least 12 additional upper level hours in literature and/or writing courses.

\*\*Should be taken before enrolling in upper level literature courses (with the exception of ENG 350, 351, 352, 353, and 499).

**MINOR IN ENGLISH (TEACHING)**

**Requirements ..... 24 hours**  
 ENG 301, 302\*\*, 350 or 351; 352 or 353; 405, 410; 510 or 520; and at least three additional upper level hours. Minor is available only to students having a teaching major in another field.

**Supporting Course Requirements ..... 3 hours**  
 ESE 574.

**Total Curriculum Requirements ..... 27 hours**

\*\*Should be taken before enrolling in upper level literature courses (with the exception of ENG 350, 351, 352, 353, and 499).

**MINOR IN THEATRE ARTS**

**Requirements ..... 18 hours**  
 THE 110, 135, 130/330 (3), 341; 390 or 391; and three hours of theatre arts electives.

**MINOR IN THEATRE ARTS (TEACHING)**

**Requirements ..... 21 hours**  
 THE 110, 135, 130/330 (3), 341; 390 or 391; and six hours of theatre arts electives.

**DEPARTMENT OF FOREIGN LANGUAGES AND HUMANITIES**

**Chair**

**Dr. Ezra Engling**  
 (859) 622-2996  
 Case Annex 368

**Faculty**

**D. Carter, M. Cortes-Castaneda, E. Kim, R. King, T. Kiogora, T. Langenbruch, M. Machado, U. Shin, J. Varela, and N. Wright**

1. Certain courses may be inappropriate for students with native or near-native fluency in a particular language; therefore, written approval from the department chair must be obtained by such students wishing to enroll for credit in these courses.
2. Students must earn 30 of the last 36 hours, exclusive of student teaching, through EKU.
3. Students who transfer credits must earn no fewer than 15 upper-division hours in the major and 9 upper-division hours in the minor at EKU, the exact minimum to be determined by

the department chair in consultation with the foreign language faculty.

4. Eastern Kentucky University students are required to obtain the department chair's written prior approval of any course work they plan to transfer back to EKU for application to the major or minor.
5. A grade of "C" or higher is required in each course to be applied toward the major and minor.
6. Students in teaching programs must attain a minimum 2.5 GPA in their teaching major to be recommended for student teaching.
7. All majors must pass a departmental proficiency exam which covers spoken and written language, culture, and literature; teaching majors must pass the proficiency exam to be recommended for student teaching. Students will ordinarily take the exam no later than in the first semester of their senior year.

**Baccalaureate Degrees**

**FRENCH (B.A.)**

*CIP Code: 16.0901*

**Major Requirements ..... 30 hours**

A student may major in French by completing a minimum of 30 semester hours in French courses numbered 200 and above. The following courses are required: FRE 340, 360; six hours from FRE 301, 302, 313, 314, 315, or 400; and nine hours of upper division electives. A grade of "C" or higher is required in each course for credit toward the major. Students are also required to pass a departmental proficiency exam which covers spoken and written language, culture, and literature.

**Supporting Course Requirements ..... 3 hours**

FCC 220 is required. Strongly recommended: six hours in a second foreign language; three hours each in upper division English courses in grammar and literature; HIS 354.

**General Education Requirements ..... 45 hours**

Standard General Education program, excluding block IIIB. Refer to Section Four of this *Catalog* for details on the General Education and University requirements.

**University Requirement ..... 1 hour**

ASO 100.

**Free Electives ..... 49 hours**

**Total Curriculum Requirements ..... 128 hours**

**FRENCH/TEACHING (B.A.)**

*CIP Code: 16.0901*

**Major Requirements ..... 30 hours**

A student may major in French by completing a minimum of 30 semester hours in French courses numbered 200 and above. The following courses are required: FRE 340, 360; six hours selected from FRE 301, 302, 313, 314, 315, or 400; and nine hours of upper division electives. A grade of "C" or higher is required in each course for credit toward the major. Students must attain a 2.5 GPA in their teaching major and must pass a departmental proficiency exam, which covers spoken and written language, culture, and literature, to be recommended for student teaching.

<b>Supporting Course Requirements</b> .....	<b>3 hours</b>
FCC 220 is required. Strongly recommended: six hours in a second foreign language; three hours each in upper division English courses in grammar and literature; HIS 354.	
<b>Professional Education Requirements</b> .....	<b>34 hours</b>
EDF 103, 203, 319, 413; SED 401; EME 442, EMS 499; ESE 490 and 543.	
<b>General Education Requirements</b> .....	<b>45 hours</b>
Standard General Education program, excluding block IIIB. Refer to Section Four of this <i>Catalog</i> for details on the General Education and University requirements.	
<b>University Requirement</b> .....	<b>1 hour</b>
ASO 100.	
<b>Free Electives</b> .....	<b>15 hours</b>
<b>Total Curriculum Requirements</b> .....	<b>128 hours</b>

**SPANISH (B.A.)***CIP Code: 16.0905*

<b>Major Requirements</b> .....	<b>30 hours</b>
A student who majors in Spanish will take a minimum of 30 semester hours in courses numbered 200 and above; 21 of these hours must be at the 300 level or above. A grade of "C" or higher is required in each course for credit toward the major. Students are also required to pass a departmental proficiency exam which covers spoken and written language, culture, and literature. Strongly recommended: six hours in a second foreign language; three hours each in upper division English courses in grammar and literature; HIS 384.	
<b>General Education Requirements</b> .....	<b>48 hours</b>
Standard General Education program. Refer to Section Four of this <i>Catalog</i> for details on the General Education and University requirements.	
<b>University Requirement</b> .....	<b>1 hour</b>
ASO 100.	
<b>Free Electives</b> .....	<b>49 hours</b>
<b>Total Curriculum Requirements</b> .....	<b>128 hours</b>

**SPANISH/TEACHING (B.A.)***CIP Code: 16.0905*

<b>Major Requirements</b> .....	<b>30 hours</b>
A student may major in Spanish by completing a minimum of 30 hours in courses numbered 200 and above; 21 of these hours must be at the 300 level or above. The following courses are required: SPA 206 (waived in case of demonstrable oral proficiency); 301 and 360; 380 or 381; three hours from 405, 406, 407. A grade of "C" or higher is required in each course for credit toward the major. Students must attain a 2.5 GPA in their teaching major and must pass a departmental proficiency exam, which covers spoken and written language, culture, and literature, to be recommended for student teaching. Strongly recommended: six hours in a second foreign language; three hours each in upper division English courses in grammar and composition; HIS 384.	
<b>Professional Education Requirements</b> .....	<b>34 hours</b>
EDF 103, 203, 319, 413, SED 401; EME 442, ESE 490, 543, and EMS 499.	
<b>General Education Requirements</b> .....	<b>48 hours</b>
Standard General Education Program. Refer to Section Four of this <i>Catalog</i> for details on the General Education and University requirements.	

<b>University Requirement</b> .....	<b>1 hour</b>
ASO 100.	
<b>Free Electives</b> .....	<b>15 hours</b>
<b>Total Curriculum Requirements</b> .....	<b>128 hours</b>

**Minors****MINOR IN FRENCH**

<b>Requirements</b> .....	<b>21 hours</b>
A student may minor in French by completing a minimum of 21 hours in French, 9 hours of which may include 201, 202, 204, 210 and/or 295. A minimum of 12 hours must be in courses numbered 300 and above. A grade of "C" or higher is required in each course for credit toward the minor. [Students entering the program with two or more years of high school French should take FRE 201, 202 or 204, 210, and 12 hours of French at the 300 level or above. Students entering the program with no previous French should take FRE 101, 102, 201, 202, 210, and 12 hours of French at the 300 level or above.]	
<b>Supporting Course Requirements</b> .....	<b>3 hours</b>
FCC 220 is required. Strongly recommended: HIS 354.	
<b>Total Curriculum Requirements</b> .....	<b>24 hours</b>

**MINOR IN HUMANITIES**

A student may minor in humanities by completing the following courses: HUM 124; 226 or 228; 300 or 395; three hours of foreign culture and civilization (FCC) or REL 301; three hours of upper-division art history; three hours from ENG 335, THE 390, 391, or 430; MUS 272, 371, or 372; PHE 200\* or three hours of upper-division philosophy (PHI). When the major and the minor require the same courses, three hours may be waived from the minor upon the recommendation of the Chair of the Department of Foreign Languages and Humanities. \**Students who plan to teach humanities in the public schools should select this course.*

**MINOR IN SPANISH**

<b>Requirements</b> .....	<b>21 hours</b>
A student may minor in Spanish by completing a minimum of 21 semester hours in courses numbered 200 and above; 12 of these hours must be at the 300 level or above. Strongly recommended: HIS 384. A grade of "C" or higher is required in each course for credit toward the minor.	
<b>Total Curriculum Requirements</b> .....	<b>21 hours</b>

**Certificates****CERTIFICATE IN FRENCH CONVERSATION AND CULTURE**

<b>Prerequisites</b> .....	<b>0-6 hours</b>
FRE 101 and 102 (or equivalent).	
<b>Requirements</b> .....	<b>15 hours</b>
FCC 220; nine hours from FRE 201, 202, 204, 210; 320 or 350. A grade of "C" or higher is required in each course for credit toward the certificate.	
<b>Total Curriculum Requirements</b> .....	<b>15-21 hours</b>

**CERTIFICATE IN GERMAN CONVERSATION AND CULTURE**

- Prerequisites** ..... 0-6 hours  
GER 101 and 102 (or equivalent).
- Requirements** ..... 15 hours  
FCC 222; GER 201, 202, 240, and 340.  
A grade of “C” or higher is required in each course for credit toward the certificate.
- Total Curriculum Requirements** ..... 15-21 hours

**CERTIFICATE IN JAPANESE CONVERSATION AND CULTURE**

- Requirements** ..... 15 hours  
FCC 227; JPN 101, 102, 201, 202.  
A grade of “C” or higher is required in each course for credit toward the certificate.
- Total Curriculum Requirements** ..... 15 hours

**CERTIFICATE IN SPANISH**

- Prerequisites** ..... 0-6 hours  
SPA 101 and 102 or 105 (or equivalent).
- Requirements** ..... 15 hours  
SPA 201, 202, 206, and six hours of upper-division Spanish courses. A grade of “C” or higher is required in each course for credit toward the certificate.
- Total Curriculum Requirements** ..... 15-21 hours

**DEPARTMENT OF GEOGRAPHY**

Acting Chair  
**Dr. Richard Sambrook**  
(859) 622-1418  
Roark 201

Faculty

B. Davis, A. Jones, R. Sambrook, D. Yow, and D. Zurick

Baccalaureate Degrees

**GEOGRAPHY (B.A.)**

*CIP Code: 45.0701*

**Program Objectives**

The mission of the Bachelor of Arts in Geography is to sustain a progressive and supportive environment where students can grow intellectually and professionally by: 1) providing a comprehensive and modern curriculum that affirms geography’s historic position at the center of a strong liberal arts tradition; 2) providing a scholastic and experiential foundation that prepares all students to live and work in the information age of a global society; and 3) promoting integrative and holistic geographic perspectives on regional issues (local, regional, and global) through interdisciplinary collaboration in research and teaching. The program values the fundamental joy of learning, all types of intellectual exploration, and pedagogical innovation. Geographic knowledge, theories, and methods provide analytical techniques

applicable to a wide range of questions asked over a broad spectrum of occupations. A bachelor’s degree in geography provides marketable skills and the broad perspectives on environment and society that enable graduates to move beyond entry-level positions. Geography also provides a sound foundation for students who plan to enter graduate work in a variety of fields, from geography to business, land use planning, law, and medicine. The potential for practicing geography in private enterprise and government has grown considerably in recent years. In fact, the U.S. Department of Labor identified geotechnology as one of the three most important emerging and evolving fields along with nanotechnology and biotechnology in 2004. The Department of Geography at ECU is committed to preparing its students for careers in geography as demonstrated by its high quality curriculum, involving undergraduates in faculty research, and its rich history of securing student internships. All students should emerge from the geography major at ECU with realistic ideas about how to implement their geographic knowledge and skills in occupational pursuits in a variety of settings.

- Major Requirements** ..... 39 hours
- Geography Core** ..... 15 hours  
GEO 200, 210, 220, 351, and 490.
- Geography Electives** ..... 24 hours  
**(18 hours must be upper division)**  
Majors are strongly encouraged to select their GEO elective hours and free elective hours in consultation with an advisor from one of the speciality areas:
- Specialty Areas:**
- Global Studies**  
GEO 205, 302, 322; 3 hours from GEO 341, 342, 343, 344, or 347; and 6 hours from ANT 435; ECO 394; GEO 330; HIS 347; POL 220; or an Accredited Study Abroad Program.
- Geotechniques**  
GEO 353, 355, 553, 555, and 556.
- Natural Resources**  
GEO 302, 330, 435; GEO 325 or 430; and 6 hours of upper-division BIO, NAT, GLY, or EHS in consultation with advisor.
- Community and Regional Planning**  
GEO 225; GEO 321 or 330; GEO 430 or 525; 6 hours from GEO 321, 325, 330, 435; and 6 hours of upper-division SOC, POL, RST, SPE or EHS in consultation with advisor.
- Supporting Course Requirements** ..... 12 hours  
CIS 212; GLY 108; SOC 232; and ECO 120 or ECO 230.
- General Education Requirements** ..... 39 hours  
Standard General Education program, excluding blocks IVB, VB, and VII (QS). Refer to Section Four of this *Catalog* for details on the General Education and University requirements.
- University Requirement** ..... 1 hour  
ASO 100.
- Free Electives** ..... 37 hours
- Total Curriculum Requirements** ..... 128 hours

Note: Students interested in Travel and Tourism should contact the Department of Geography.

## Minors

### MINOR IN GEOGRAPHY

A student may minor in geography by completing a total of 18 semester hours as follows: GEO 200, 210, 220, and nine hours of upper-division geography electives.

### MINOR IN GEOTECHNIQUES

A student may minor in geotechniques by completing a total of 18 hours as follows: 6 hours from GEO 200, 210, or 220; GEO 353, 355, 553; GEO 555 or 556.

Note: minor not open to geography majors.

### MINOR IN NATURAL RESOURCE GEOGRAPHY

A student may minor in natural resource geography by completing a total of 18 hours as follows: GEO 210, 200 or 220; GEO 302, 330, 435; GEO 325 or 430.

Note: minor not open to geography majors.

### MINOR IN COMMUNITY AND REGIONAL PLANNING

A student may minor in community and regional planning by completing a total of 18 hours as follows: 6 hours from GEO 200, 210 or 220; GEO 225; GEO 430 or 525, 6 hours from GEO 321, 330, 325 and 435.

Note: minor not open to geography majors.

## DEPARTMENT OF GOVERNMENT

### Chair

**Dr. Sara Zeigler**  
(859) 622-5931  
McCreary 113

### Faculty

**S. Barracca, T. Busson, R. Dean, J. Gershtenson, G. Gunderson, L. Noblitt, D. Patton, G. Rainey, J. Rainey, K. Stewart, E. Tackett, L. Wimberly, and S. Zeigler**

### Paralegal Program

The paralegal programs offer a Bachelor of Arts degree in paralegal science and an Associate of Arts degree in paralegal studies. The objectives of the programs are: (1) to create, implement, and maintain a strong, flexible program directed to the quality education of occupationally competent paralegals; (2) to provide a paralegal education program that leads to employment of its graduates by a wide range of employers; (3) to provide paralegals with a well-rounded, balanced education founded on a beneficial mix of general education, theory, and practical courses stressing understanding and reasoning rather than rote learning of facts; (4) to support the general principles of ethical legal practice,

professional responsibility, and the prohibitions against the unauthorized practice of law by a lay person; (5) to provide an educational program that is responsive to the varied needs of the state of Kentucky and the region and contributes to the overall advancement of the legal profession; (6) to provide a program which instills respect for the legal profession and its foundations, institutions, and quest for justice; and (7) to maintain equality of opportunity in the educational program without discrimination or segregation on the grounds of race, color, religion, natural origin, or sex.

### DEPARTMENTAL DEGREE REQUIREMENTS

Paralegal majors (A.A., B.A.) must attain a minimum grade of "C" in all "major" and "supporting" courses. A minimum grade of "C" must be earned in LAS 210 before taking LAS 220 and 320. A minimum grade of "C" must be earned in LAS 220 before being admitted to any of the other upper division requirements.

### TRANSFER STUDENTS

Transfer students must take a minimum of 15 semester hours of paralegal (LAS) courses at EKU to earn a paralegal degree.

## Baccalaureate Degrees

### PARALEGAL SCIENCE (B.A.)

*CIP Code: 22.0302*

<b>Major Requirements</b> .....	<b>40 hours</b>
LAS 210, 220, 300, 320, 325, 350, 385, 399, 410 and 12 hours from LAS 330, 340, 360, 370, 380, 460 or 490.	
<b>Supporting Course Requirements</b> .....	<b>12 hours</b>
ACC 201, ENG 301, POL 101, and three hours from POL 460, 463, or 464.	
<b>General Education Requirements</b> .....	<b>45 hours</b>
Standard General Education program, excluding block VB. Refer to Section Four of this <i>Catalog</i> for details on the General Education and University requirements.	
<b>University Requirement</b> .....	<b>1 hour</b>
ASO 100.	
<b>Free Electives</b> .....	<b>30 hours</b>
<b>Total Curriculum Requirements</b> .....	<b>128 hours</b>

### POLITICAL SCIENCE (B.A.)

*CIP Code: 45.1001*

<b>Major Requirements</b> .....	<b>33 hours</b>
POL 101, 212, 220, 280, 370 or 374, 551 or 552 or 553. An additional 12 hours of POL courses, all of which must be numbered 300 or above. No more than six hours of POL courses numbered 300 or above may be taken prior to completing POL 280. Diversity Requirement: 3 hours from POL 345, 347, 373, 376, 446, 464, or an appropriate POL course approved by the Chair.	

No more than 6 hours of POL 349 may be applied toward major requirements.

(To identify courses in international relations, comparative government, American government, public administration and methodology see the note preceding POL course descriptions.)

- General Education Requirements ..... 48 hours**  
Standard General Education program. Refer to Section Four of this *Catalog* for details on the General Education and University requirements.
- University Requirement ..... 1 hour**  
ASO 100.
- Free Electives ..... 46 hours**
- Total Curriculum Requirements ..... 128 hours**

**Associate Degree**

**PARALEGAL STUDIES (A.A.S.)**

*CIP Code: 22.0302*

- Major Requirements ..... 37 hours**  
LAS 210, 220, 300, 320, 325, 350, 385, 399, 410 and nine hours from LAS 330, 340, 360, 370, 380, or 460.
- Supporting Course Requirements ..... 25 hours**  
ASO 100, six hours of English Composition\*, three hours general education humanities\*, POL 101\*, MAT 105\* or higher, three hours general education elective\* (not POL), ACC 201, and ENG 301.
- Free Electives ..... 2 hours**
- Total Curriculum Requirements ..... 64 hours**

\*Courses meeting general education requirements.

**Minors**

**MINOR IN PARALEGAL STUDIES**

A student may minor in Paralegal Studies by completing a total of 18 hours as follows: LAS 210, 220, 300, 320, 350, and 410.

**MINOR IN POLITICAL SCIENCE**

A student may minor in political science by completing POL 101 plus 15 hours of which nine hours must be in courses numbered 300 or above. No more than three hours of POL 349 may count toward the minor.

**MINOR IN PUBLIC ADMINISTRATION**

A student may minor in public administration by completing a total of 18 hours as follows: POL 101, POL 370, POL 374, and nine hours from POL 332 or POL 333, POL 371, POL 373, POL 376, POL 377, and POL 565. Upper division courses applied to the public administration minor may not be applied to the political science minor.

**Certificate**

**CERTIFICATE IN PARALEGAL SCIENCE  
(POST-BACCALAUREATE)**

- Requirements ..... 30-31 hours\*\***  
LAS 210, 220, 300, 320, 350, 410, plus 12 hours of LAS courses chosen from LAS 325, 330, 340, 360, 370, 380, 385, 399.\*

\*LAS 399 is a 4 semester hour course.

\*\*Students with 75 hours or more may begin taking courses toward the post-baccalaureate certificate. At least 18 hours toward the certificate must be taken subsequent to receiving a bachelor's degree.

**DEPARTMENT OF HISTORY**

**Chair**

**Dr. David Coleman  
(859) 622-1287  
Keith 323**

**Faculty**

**T. Appleton, D. Blaylock, D. Coleman, A. G. Dunston,  
T. Hartch, R. Huch, J. Lowry, D. Sefton, J. Spock, C. Taylor,  
R. Topmiller, A. Wohicke, R. Weise, and B. Wood**

**Baccalaureate Degrees**

**HISTORY (B.A.)**

*CIP Code: 54.0101*

**Program Objectives**

Upon successful completion of this program, graduates will be able to: 1) demonstrate knowledge of U.S. history, European history, selected aspects of non-Western history at a high level; 2) demonstrate their ability to write effectively (all students in the program will complete term papers as part of their major requirements); and 3) execute a major research project utilizing both primary and secondary sources. All students in the baccalaureate program will submit prior to graduation a formal research project which includes both primary and secondary sources. In addition to pursuing careers in education, graduates of this degree program have found employment in business, journalism, public history, library work, government and law. A history degree is excellent preparation for law school as well as graduate programs in library science, public history and many other fields. Many employers value the research, writing and analytical skills developed through the study of history.

- Major Requirements ..... 33 hours**  
HIS 201, 202, 203, 450, and 21 upper division hours with a minimum of six hours in each of the following distribution areas (including two of the following three courses: 302A, 302B, 302C:

Area I (U.S.): HIS 300 (3 hours), 301, 302A, 303, 304, 305, 309, 401, 402, 403, 404, 405, 406, 407, 411, 412, 413, 415, 420, 424, 433, or 516.

Area II (Europe): HIS 300 (3 hours), 301, 302B, 315, 336, 339, 341, 342, 343, 344, 345, 346, 350, 354, 363, or 365.

Area III (Non-Western): HIS 300 (3 hours), 301, 302C, 308, 320, 347, 374, 375, 378, 380, 383, 384, 385, 386, 387, 434, 474, or 475.

The remaining upper division history course may come from any of the above areas or from other upper division history courses except HIS 302A, B, C.

**General Education Requirements ..... 48 hours**

Standard General Education program. Refer to Section Four of this *Catalog* for details on the General Education and University requirements.

**University Requirement ..... 1 hour**

ASO 100.

**Free Electives ..... 46 hours**

At least three hours of one foreign language is strongly recommended. Students who plan to pursue a graduate degree are strongly encouraged to take at least six hours of a foreign language.

**Total Curriculum Requirements ..... 128 hours**

### HISTORY/TEACHING (B.A.)

*CIP Code: 54.0101*

#### Program Objectives

Upon successful completion of this program, graduates will be able to: 1) demonstrate knowledge of U.S. History, European history, selected aspects of non-Western history at a high level; 2) demonstrate their ability to write effectively (all students in the program will complete term papers as part of their major requirements); and 3) execute a major research project utilizing both primary and secondary resources. All students in the baccalaureate degree program will submit prior to graduation a formal research project which includes both primary and secondary resources. The History/Teaching B.A. is designed above all for those who wish to pursue careers in social studies at the secondary level. Offered in cooperation with the ECU College of Education, the History/Teaching B.A. program includes secondary teaching certification in social studies. Refer to the College of Education section of this *Catalog* regarding the teacher certification requirements associated with this degree program.

**Major Requirements ..... 33 hours**

HIS 201, 202, 203, 450, and 21 upper division hours with a minimum of six hours in each of the following distribution areas (including two of the following three courses: 302A, 302B, 302C):

Area I (U.S.): HIS 300 (3 hours), 301, 302A, 303, 304, 305, 309, 401, 402, 403, 404, 405, 406, 407, 411, 412, 413, 415, 420, 424, 433, or 516.

Area II (Europe): HIS 300, (3 hours), 301, 302B, 315, 336, 339, 341, 342, 343, 344, 345, 346, 350, 354, 363 or 365.

Area III (Non-Western): HIS 300 (3 hours), 301, 302C, 308, 320, 347, 374, 375, 378, 380, 383, 384, 385, 386, 387, 434, 474 or 475.

The remaining upper division history course may come from any of the above areas or from other upper division history courses except HIS 302A, B, C.

**Supporting Course Requirements ..... 18 hours**

ANT 120 or SOC 131, ECO 120, PSY 200, GEO 200; POL 101 and POL 220.

**Professional Education Requirements ..... 31 hours**

EDF 103, 203, 319, 413, SED 401; ESE 449, 490, and 499.

**General Education Requirements ..... 36 hours**

Standard General Education program, excluding Block VB, Block VC, and Block VIII (6 hours). Refer to Section Four of this *Catalog* for details on the General Education and University Requirements.

**University Requirement ..... 1 hour**

ASO 100.

**Free Electives ..... 9 hours**

**Total Curriculum Requirements ..... 128 hours**

### SECOND MAJOR IN HISTORY

A student may complete a second major in history by completing the major requirements listed above.

### Minor

#### MINOR IN HISTORY

Students majoring in other disciplines may minor in History (teaching or non-teaching) by completing the following courses: HIS 202 and 203; HIS 231, HIS 246, or HON 210; HIS 232, HIS 247 or HON 311; nine hours upper division history with three hours in each of the upper-division areas described in the major (refer to major for specific course listings in each area).

## DEPARTMENT OF MATHEMATICS AND STATISTICS

### Chair

Dr. Dirk Schlingmann  
(859) 622-5942  
Wallace 312

### Faculty

R. Blythe, R. Buskirk, P. (Patricia) Costello, P. (Patrick) Costello, M. Cropper, M. Gebert, D. Greenwell, K. Jones, L. Kay, A. Maison, S. Metcalf, R. Nelson, S. Redmond, D. Schlingmann, M. Stribling, R. Thomas, J. Wilson, B. Xu, and M. Yoder

### Baccalaureate Degrees

#### MATHEMATICS (B.S.)

*CIP Code: 27.0101*

#### Program Objectives

Upon successful completion of this program, the graduate will: (1) be able to apply mathematical techniques to social, economic, and scientific problems; (2) understand the importance and power of mathematics in our rapidly changing technological age; (3) be prepared to pursue a graduate program in this or a related area; and (4) be well qualified for employment in any position requiring undergraduate training in mathematics.

**Major Requirements ..... 40 hours**  
 MAT 124\* or 124H; 214; 224 or 224H; 225 or 225H; 301, 308, 315, 408 or 415, 498; one additional MAT course chosen from 408, 415, or any course numbered 505 or above (507 only with departmental approval); nine hours chosen from: CSC 300, 320, any MAT course numbered 300 or above (except for 303, 349, 501, 502), or any STA course numbered 300 or above (except for 349, 500, 503). At most 6 hours of STA courses may be used to fulfill these requirements. Only courses completed with a grade of at least “C-” will count toward the major requirements. At least five upper division courses which satisfy the major requirements must be completed at EKU.

**Supporting Course Requirements ..... 6 hours**  
 CSC 160, 177, or 190; STA 270.

**General Education Requirements ..... 39 hours**  
 Standard General Education program, excluding blocks II and VIII (6 hours). Refer to Section Four of this *Catalog* for details on the General Education and University requirements.

**University Requirement ..... 1 hour**  
 ASO 100.

**Free Electives ..... 42 hours**  
 Students planning to attend a graduate school in mathematics are strongly encouraged to select an in-depth study of a single foreign language as a part of their program.

**Total Curriculum Requirements ..... 128 hours**

\* A preparatory course in mathematics (MAT 109) may be required before admission to calculus.

**MATHEMATICS/TEACHING (B.S.)**

*CIP Code: 27.0101*

**Program Objectives**

Upon successful completion of this program, the graduate will be prepared for certification to teach mathematics at the secondary level and will: (1) understand the principles of pre-college mathematics; (2) be able to explain mathematical concepts and applications to social, economic, and scientific problems; (3) understand the importance and power of mathematics in our rapidly changing technological age; and (4) be prepared to pursue a graduate program in this or some related area.

Refer to the College of Education section of this *Catalog* regarding several teacher certification requirements associated with this degree program.

**Major Requirements ..... 37-42 hours**

**Core ..... 27 hours**

MAT 124\* or 124H; 214; 224 or 224H; 301, 306, 308, 334, 380\*\*.

**Options**

**Mathematics Teaching ..... 10 hours**

MAT 225 or 225H; 315, three hours of courses chosen from: CSC 300, 320; any MAT course numbered 300 or above (except for 303, 349, 501, or 502), or any STA course numbered 300 or above (except for 349, 500, 503).

**Computer Science/Mathematics Teaching**

**..... 15 hours**

CSC 160, 190, 191, 310, 330.

All courses must be completed with a grade of at least “C-.” At least five upper-division courses which satisfy the major requirements must be completed at EKU.

**Supporting Course Requirements ..... 6-9 hours**

**Mathematics Teaching ..... 9 hours**

CSC 104; CSC 160, 177, or 190; STA 270.

**Computer Science/Mathematics Teaching**

**..... 6 hours**

CSC 104; STA 270.

All courses must be completed with a grade of at least a “C-.”

**General Education Requirements ..... 31 hours**

EDF 103, 203, 319, 413; SED 401; ESE 490, 499, 550.

**General Education Requirements ..... 39 hours**

Standard General Education program, excluding blocks II and VIII (6 hours). Refer to Section Four of this *Catalog* for details on the General Education and University requirements.

**University Requirement ..... 1 hour**

ASO 100.

**Free Electives ..... 9-11 hours**

**Total Curriculum Requirements ..... 128 hours**

\* A preparatory course in mathematics (MAT 109) may be required before admission to calculus.

\*\*Students who use a course from another institution as the History of Mathematics course will need to take ESE 574 to meet the reading requirement for secondary education certification.

**STATISTICS (B.S.)**

*CIP Code: 27.0501*

**Program Objectives**

Upon successful completion of this program, the graduate will: (1) understand the applications and use of statistics in everyday life; (2) be able to apply a wide variety of statistical techniques; (3) be familiar with computer packages which perform statistical analysis; (4) be well qualified for employment in industry, government, and the actuarial profession; and (5) be prepared to pursue graduate work in statistics.

**Major Requirements ..... 43 hours**

STA 270, 320, 498, 520, 521, 585, two of STA 370, 375, 501, 575, with a cumulative GPA of 2.0 in these STA courses; MAT 124\* or 124H; 214; 224 or 224H; 225 or 225H; six hours of CSC/MAT/STA numbered 300 or above (except for 349 and CSC 305, 306, MAT 303, 501, 502, STA 500, 503).

**Supporting Course Requirements ..... 3 hours**

CSC 160, 177, or 190.

**General Education Requirements ..... 39 hours**

Standard General Education program, excluding blocks II and VIII (6 hours). Refer to Section Four of this *Catalog* for details on the General Education and University requirements.

**University Requirement ..... 1 hour**

ASO 100.

**Free Electives ..... 42 hours**

**Total Curriculum Requirements ..... 128 hours**

\* A preparatory course in mathematics (MAT 109) may be required before admission to calculus.

**Minors****MINOR IN MATHEMATICAL SCIENCES**

A student may minor in mathematical sciences by completing a minimum of six hours in each of computer science, mathematics, and statistics for a total of 18 hours as follows: computer science—two of CSC 160, 190, 191; mathematics—MAT 261 and 262, or MAT 124 or 124H, and 224 or 224H; and statistics—two of STA 270, 320, 370, 500, 501, 575.

**MINOR IN MATHEMATICS**

A student may minor in mathematics by completing 18 hours including MAT 124 or 124H; 224 or 224H; and ten hours selected from MAT 214; 225 or 225H; 306; an approved MAT 480; STA 370 or 520; or any MAT course numbered 300 or above (except for MAT 349).

**MINOR IN MATHEMATICS/TEACHING**

A student may minor in mathematics teaching by completing a minimum of 20 semester hours as follows: MAT 124 or 124H; MAT 214; MAT 224 or 224H; MAT 301; MAT 334; and STA 270. The teaching minor in mathematics must be coupled with a secondary teaching major in another discipline.

**MINOR IN STATISTICS**

A student may minor in statistics by completing 18 hours of mathematical science courses including 12 hours of STA and six hours selected from any additional STA courses (except for 349), any CSC courses (except for 105, 305, 306, or 349), or any calculus courses.

**DEPARTMENT OF MUSIC****Chair**

**Mr. Rob James**  
(859) 622-3266  
Foster 101

**Faculty**

**J. Allison, C. Beeler, R. Crosby, K. Haddix, H. Hensley, R. James, K. Kean, J. Koontz, J. Martin, H. Mickens, J. Mulholland, P. Newell, C. Rhoades, P. Sehmman, K. Sehmman, J. Willett, and J. Wolf**

**ADMISSION TO THE MUSIC MAJOR PROGRAM**

Admissions to the Bachelor of Music programs requires an audition and theory placement interview. The student is expected to demonstrate acceptable levels of achievement in performance in terms of intonation, tone quality and rhythmic accuracy. Incoming students will be expected to perform two selections of contrasting styles. May be accepted on probationary status at the discretion of the applied teacher and the department chair.

**BACHELOR OF MUSIC CORE REQUIREMENTS****APPLIED MUSIC**

All music majors must complete a minimum of seven semesters of applied lessons with at least three of the upper division levels. Applied students must complete a jury examination at the end of each semester.

**Solo Recital Performance.** Each major is expected to perform the equivalent of a half recital (MUS 399) during the course of study, either separately or as the result of at least four (4) appearances on student recitals (Fridays).

**Ensemble Requirements.** Each major is expected to enroll in a major ensemble reflecting the major applied area of study every semester in residence. Keyboard majors may substitute accompaniment (MUS 313 or 513) for ensemble credits. Even if the student plans to study in two or more applied areas, one of them must be declared the major.

**Recital Attendance.** All majors are expected to attend 16 recitals including the Friday recitals and other departmental concerts held throughout the semester (MUS 101) for at least six semesters. Performances off campus must receive approval by department chair.

**MUSIC TEACHING OPTION**

All wind and percussion majors must complete at least three semesters of MUS 256. Students enrolling in more than three ensembles should receive permission for such participation from their applied teacher, ensemble director, and advisor.

**MUSIC PERFORMANCE OPTION**

All performance majors must pass an audition beyond the entrance audition. They will be on probationary status for one to four semesters. At the end of the probationary period, the student may re-audition for full candidacy. The Audition Committee will consist of at least three members of the music faculty including the applied teacher. All performance majors must give a full recital (MUS 499) in addition to the half recital required of all majors.

**MUSIC MERCHANDISING OPTION**

All music merchandising majors must complete two credits of Co-op (MUS 349). All Co-op projects must be approved by the Co-op office, department chair, and Co-op coordinator.

**MUSIC THEORY AND COMPOSITION OPTION**

Theory and composition majors must complete four credits of beginning composition (MUS 283) and four credits of advanced composition (MUS 483). Composition students may use the performance of their compositions towards the recital requirement.

**MUSIC (B.M.)**

CIP Code: 50.0901

<b>Major Requirements</b> .....	<b>55-75 hours</b>
<b>Core</b> .....	<b>44 hours</b>
MUS 110, 111, 210, 211, or MUS 114 (2) and 115 (2), 181, 182, 281, 282, 366, 399, 480, 383 or 481 or 285, 384, minimum of seven hours of ensemble and minimum of seven hours of applied instrument or voice. Music Ensemble: wind and percussion teaching majors must elect three hours of MUS 256.	
<b>Options</b> .....	<b>11-31 hours</b>
<b>Performance/Instrumental</b> .....	<b>31 hours</b>
MUS 367 or 368, 499 (1), 550 (2), 551 (2), seventeen additional hours of lower and upper division applied. One additional hour of ensemble, three hours of upper division music theory electives, and three hours of upper division music history electives. Six semesters of MUS 101.	
<b>Performance/Vocal</b> .....	<b>31 hours</b>
MUS 220 (1), MUS 367 or 368, 499 (1), 520 (1), 550 (1), 551 (1), seventeen additional hours of lower and upper division applied. One additional hour of ensemble, three hours of upper division music theory electives and three hours of upper division music history electives. Six semesters of MUS 101.	
<b>Music Merchandising</b> .....	<b>26 hours</b>
MUS 190 (2), 191 (2), 290 (2), 349 (2), 390, 391, ACC 201, MGT 301, PUB 375, LAS 210. Six semesters of MUS 101.	
<b>Theory and Composition</b> .....	<b>25 hours</b>
MUS 283 (4), 483 (8), 499 (1), 555 or 556. Three hours of upper division theory electives. Three hours of music electives. Three hours of foreign language. Six semesters of MUS 101.	
<b>Music Education/Instrumental</b> .....	<b>11 hours</b>
MUS 230, 251, 252, 320, 330, 351, 352, 354, 364, 365, 367 (2). (Instrumental students will be excused from taking the methods course that includes their major applied instrument). Six semesters of MUS 101 (0 credit course).	
<b>Music Education/Vocal</b> .....	<b>11 hours</b>
MUS 220 (1), 230, 251, 351, 354, 364, 365, 368 (2), 513 (2). Six semesters of MUS 101 (0 credit course).	
<b>Supporting Course Requirements</b> .....	<b>9-15 hours</b>
Performance .....	9 hours
MUH 272, 371, 372.	
Music Merchandising Option .....	15 hours
CCT 201, three hours of computer electives chosen from the following: CSC 104, 160, 174, 177, 190 or CIS 212, 240; MUH 272, 371, 372.	
Theory and Composition Option .....	9 hours
MUH 272, 371, 372.	
Music Education Option .....	9 hours
MUH 272, 371, 372.	
<b>Professional Education Requirements for Music Education Option</b> .....	<b>34 hours</b>
EDF 103, 203, 319, 413, SED 401, EME 378, EMS 499, ESE 579, ESE 490.	
<b>General Education Requirements</b> .....	<b>36-39 hours</b>
Standard General Education program, excluding blocks IIIA and VIII (6 hours) for Performance, Theory and Composition and Music Education. Blocks IIIA, VII (QS), and VIII	

(6 hours) are excluded for Music Merchandising. Refer to Section Four of the *Catalog* for details on the General Education and University requirements.

**University Requirement** ..... **1 hour**  
ASO 100.

**Free Electives** ..... **0-6 hours**

**Total Curriculum Requirements** ..... **128-138 hours**

**Minor****MINOR IN MUSIC**

**Requirements** ..... **20 hours**  
MUS 110, 111, 181, 182, MUH 371, 372, and four hours of electives in music.

**DEPARTMENT OF PHILOSOPHY  
AND RELIGION****Chair**

**Dr. Steven Parchment**  
(859) 622-1400  
Case Annex 268

**Faculty**

**M. Austin, T. Gooch, B. Gray, R. Messerich, L. Newhart,  
A. Nguyen, P. Nnoromele, S. Parchment, and F. Williams**

**Baccalaureate Degree****PHILOSOPHY (B.A.)**

CIP Code: 38.0101

**Major Requirements** ..... **36 hours**  
PHI 100, 110, 130, 300, 320, 330, 371, 499, and either 350 or 352; plus any additional nine hours in philosophy as approved by the department chair. Six hours of religion may be counted as part of the nine hours.

**General Education Requirements** ..... **48 hours**  
Standard General Education program. Refer to Section Four of this *Catalog* for details on the General Education and University requirements.

**University Requirement** ..... **1 hour**  
ASO 100.

**Free Electives** ..... **43 hours**

**Total Curriculum Requirements** ..... **128 hours**

**Minors****MINOR IN PHILOSOPHY**

A minor consists of 18 hours in philosophy, including at least three hours in PHI 100, 110, 130, 300, or 320. Three hours of religion may be counted in a minor.

**MINOR IN RELIGION**

A minor consists of 18 hours in religion, including at least three hours in REL 301, 305, 306, 315 or PHI 240. Three hours of philosophy may be counted in a minor, and if PHI 240 is taken, six hours of philosophy may be counted.

## DEPARTMENT OF PHYSICS AND ASTRONOMY

**Chair**

**Dr. Mark Biermann**  
(859) 622-1521  
Moore 351

**Faculty**

M. Biermann, M. Ciocca, J. Cook, C. Kulp, and G. Yoder

**Baccalaureate Degrees****PHYSICS (B.S.)**

*CIP Code: 40.0801*

**Program Objectives**

Upon completion of this program the graduate will: 1) be able to apply mathematics to analyze problems in Physics; 2) be able to use fundamental physical results, such as conservation laws, to study physical systems; 3) be able to analyze important processes occurring in physical systems. Additionally, graduates of this program will 1) be prepared for employment in Physics or a related field in the public or private sector; 2) be prepared for admission to a graduate program in Physics or a related field.

**Major Requirements ..... 38 hours****Core ..... 22 hours**

PHY 100\*\*, PHY 201, 202, 300, 301; 306 or 308; 458.  
At the discretion of the chair, PHY 131 may be substituted for PHY 201.

**Options****Physics (General) ..... 16 hours**

PHY 420, 459, 470, six hours from any physics course numbered 300 and above, except PHY 506.

**Engineering Physics ..... 16 hours**

PHY 221, 315, 375, six hours from CSC 300, EET 253, 257, 305, 350, 355, PHY 303, 306, 308, 402, 510, STA 270.

**Supporting Course Requirements ..... 29 hours**

CHE 111, 112, 115, 116 or 116H, CSC 174 (or any approved programming language course), MAT 124\*, 224, 225, 353, EET 252.

**General Education Requirements ..... 33 hours**

Standard General Education program, excluding blocks II, IVB, VII (QS) and VIII (6 hours). Refer to Section Four of this *Catalog* for details on the General Education and University requirements.

**University Requirement ..... 1 hour**

ASO 100.

**Free Electives ..... 27 hours****Total Curriculum Requirements ..... 128 hours**

\*A preparatory course (MAT 109) in mathematics may be required before admission to MAT 124.

\*\*May be waived with the permission of the Chair of the Department of Physics and Astronomy.

**PHYSICS/TEACHING (B.S.)**

*CIP Code: 40.0801*

**Program Objectives**

Upon completion of this program the graduate will: 1) be able to apply mathematics to analyze problems in Physics; 2) be able to use fundamental physical results, such as conservation laws, to study physical systems; 3) be able to analyze important processes occurring in physical systems. Additionally, graduates of this program will: 1) be prepared to take and pass the Praxis exam in Physics; 2) be prepared to teach Physics in a secondary school.

**Major Requirements ..... 30 hours**

AST 135, 330, PHY 201, 202, and fourteen hours of physics courses numbered 300 and above.

**Minor Requirements ..... 14-21 hours**

A teaching minor in mathematics, computer science, chemistry, or earth science is required.

**Supporting Course Requirements ..... 22 hours**

CHE 111, 112, 115, 116 or 116H; MAT 124,\* 224; BIO 100, BIO 102, or NAT 101; and CSC 104 or CIS 212.

**Teacher Education Requirements ..... 31 hours**

EDF 103, 203, 319, 413, SED 401, ESE 451, 490, 499.

**General Education Requirements ..... 30 hours**

Standard General Education program, excluding blocks II, IVA, IVB, VII (QS), and VIII (6 hours). Refer to Section Four of this *Catalog* for details on the General Education and University requirements.

**University Requirement ..... 1 hour**

ASO 100.

**Total Curriculum Requirements ..... 128-135 hours**

\*A preparatory course (MAT 109) in mathematics may be required before admission to MAT 124.

**Associate Degree****SCIENCE FOR ENGINEERING (A.A.S.)**

*CIP Code: 14.9999*

**Program Objectives**

Upon completion of this program the graduate will: 1) be able to apply mathematics to analyze problems in the physical sciences; 2) be able to use fundamental physical results, such as conservation laws, to study physical systems; 3) be able to apply analytical techniques to the analysis of structures and/or mechanisms. Additionally, graduates of this program will: 1) be prepared for employment in the engineering technology career in the public or private sector; 2) be prepared for entrance into a B.S. program in engineering or a related field.

**Major Requirements ..... 18 hours**

PHY 201, 202; MAT 124\*\*, 224.

**Supporting Course Requirements ..... 17 hours**

Three hours Approved Programming Language\*; CHE 111\*, 112\*, 115\*, 116\* or 116H\*; TEC 190, PHY 221 or CHE 361.

- General Education Requirements ..... 24 hours**  
 General Education categories IA, IB, IC, IIB, IIIA or VII, VA, VB, VC.
- University Requirement ..... 1 hour**  
 ASO 100.
- Free Electives ..... 4 hours**  
 Chosen with advisor to satisfy major requirements at the chosen engineering school.
- Total Curriculum Requirements ..... 64 hours**

\*Courses meeting general education requirements.

\*\*A preparatory course (MAT 109) in mathematics may be required before admission to MAT 124.

**Minors**

**MINOR IN PHYSICS**

A student may complete a minor in physics by taking PHY 201, 202, 300, and a minimum of five additional hours of physics 300-level or above for a total of 18 hours. PHY 131 may be substituted for PHY 201, and PHY 132 may be substituted for PHY 202.

**MINOR IN PHYSICS/TEACHING**

A student may complete a teaching minor in physics by taking PHY 201 and PHY 202 plus eleven additional hours in PHY or AST numbered 300 or above. PHY 131 may be substituted for PHY 201 and PHY 132 may be substituted for PHY 202. The teaching minor in physics must be coupled with a teaching major in biology, chemistry, computer science/mathematics, earth science, or mathematics.

**DEPARTMENT OF PSYCHOLOGY**

**Chair**

**Dr. Robert Brubaker**  
 (859) 622-1105  
 Cammack 127

**Faculty**

**D. Beal, T. Botts, R. Brubaker, M. Bundy, C. Clement, S. Falkenberg, V. Falkenberg, J. Flanagan, D. Florell, J. Gore, A. Hale, R. Lorden, D. Mercer, R. Mitchell, J. Palmer, R. Perrine, E. Popp, S. Wilson, and M. Winslow**

**Baccalaureate Degree**

**PSYCHOLOGY (B.S.)**

*CIP Code: 42.0101*

**Program Objectives**

Upon completion of the Psychology degree graduates will: 1) be familiar with the major concepts, theoretical perspectives, empirical findings, and historical trends in psychology; 2) understand and apply basic research methods in psychology, including research design, data analysis, data interpretation, and the

ethical treatment of human subjects; 3) respect and use critical and creative thinking, skeptical inquiry, and when possible, the scientific approach to solve problems related to behavior and mental processes; 4) understand and apply psychological principles to personal, social and organizational issues; 5) be able to weigh evidence, tolerate ambiguity, act ethically, and reflect other values are the underpinnings of psychology as a discipline; 6) demonstrate information competence and the ability to use computers and other technology for many purposes; 7) be able to communicate effectively in a variety of formats related to the discipline of psychology; 8) recognize, understand, and respect the complexity of sociocultural and international diversity; 9) develop insight into their own and others' behavior and mental processes and apply effective strategies for self-management and self-improvement; 10) emerge from the major with realistic ideas about how to implement their psychological knowledge, skills, and values in occupational pursuits in a variety of settings; 11) be prepared for employment and/or graduate training in a variety of fields.

**Major Requirements ..... 37 hours**

PSY 200, 250, 291, 301, and at least 3 hours from each of the following groups:

- (1) Biological Bases of Behavior: PSY 311, 315, 315L
- (2) Cognition/Learning: PSY 313, 317, 317L
- (3) Developmental: PSY 312, 314, 316
- (4) Social/Personality: PSY 300, 305, 308
- (5) Skills: PSY 405, 406, 490, 590
- (6) Capstone: 400 or 401 or 579

In addition, the student must take nine hours of upper-division psychology electives. At least three of these must be numbered 400 or above. (PSY 407 may not be used as an elective.) A minimum grade of "C" is required in all courses counted toward the major.

**General Education Requirements ..... 48 hours**

Standard General Education program. Refer to Section Four of this *Catalog* for details on the General Education and University requirements.

**University Requirement ..... 1 hour**

GSO 100.

**Free Electives ..... 39 hours**

**Total Curriculum Requirements ..... 128 hours**

**SECOND MAJOR IN PSYCHOLOGY**

Requirements are the same for a first or a second major in psychology.

**Minor**

**MINOR IN PSYCHOLOGY**

Requirements for a minor are PSY 200 plus electives in PSY to total 18 hours. Neither PSY 349 nor 407 can be counted toward the minor. A minimum grade of "C" is required of all courses counted toward the minor.