
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 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, and Bachelor of Individualized 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. In addition, individual programs have specific requirements in regard to minimum GPA's within the major, minimum number of hours to be earned at Eastern, and other matters. 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.

SCIENCE LEARNING RESOURCE CENTER

The Science Learning Resource Center (SLRC), a division of the College, was established for the purpose of enhancing what the student learns in the classroom via a diverse number of innovative uses of audio-video and computer assisted instruction. Instruction is on an individualized basis and is an extension of the natural and mathematical sciences courses and research efforts. The SLRC, located in the Memorial Science Building, presently contains microcomputers, printers, a plotter, a scanner, a small science library, and audio-video equipment and provides students with computer assisted instruction, computer simulations, and audio-video presentations.

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 Eastern 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 Requirements	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 Eastern and then take two years of work in engineering at the University of Kentucky or Auburn University and earn a baccalaureate degree from Eastern in physics or chemistry and an engineering degree from the engineering school. The additional year spent at Eastern 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 Eastern 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 Eastern Kentucky University 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 131, 141, 211, 315, 328, 335, 536.	
Supporting Course Requirements	41 hours
AGR 215, CHE 111, 112, CON 221, CSC 174, ENG 300, GLY 108, TEC 190, MAT 124*, PHY 131; SPE 100 or 300; STA 215 or 270.	

General Education Requirements	28 hours
Standard General Education program, excluding course categories 03, 04, 13, 14, 15, 16, 20 and 21. Refer to Section Four of this <i>Catalog</i> for details on the General Education and University requirements.	
University Requirements	4 hours
ASO 100 and three hours of restricted electives.	
Free Electives	12 hours
Total Curriculum Requirements	112 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 141, 211, 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	23 hours
CHE 111, 112, six hours of English composition, six hours social science, HPR 180, 282.	
University Requirements	4 hours
ASO 100 and three hours of restricted electives.	
Total Curriculum Requirements	78 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.

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

*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.)

- Major Requirements** 34-36 hours
BIO 131, 141, 211, 315, 316, 320; 328 or 348; 490, 514, one elective in biology at the 300-500 level.
- Supporting Course Requirements** 32-33 hours
CHE 111, 112, 361, 366, 362 and 367; MAT 124* or 261*; PHY 131, 132; STA 215 or STA 270.
- General Education Requirements** 33 hours
Standard General Education program, excluding course categories 03, 13, 14, 15, 16 and 21. PSY 200 is substituted for HEA 281 for pre-medical and pre-dental students.

- University Requirements** 4 hours
ASO 100 and three hours of restricted electives.
- Free Electives** 19-25 hours
- Total Curriculum Requirements** 128 hours

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

**Chemistry (B.S.)
Biochemistry Option**

- Major Requirements** 37 hours
CHE 111, 112, 325, 361, 362, 366, 367, 471, 472, 473, 480, 481 (2), 530, 531, and 532.
- Supporting Course Requirements** 37 hours
MAT 124 224, and 225; PHY 201, 202; BIO 141, 211, 315 or 320, and 331 as free electives.
- General Education Requirements** 33 hours
Standard General Education program, excluding course categories 03, 04, 13, 14, 15, 16, and 21. PSY 200 is substituted for HEA 281 for pre-medical and pre-dental students.
- University Requirements** 4 hours
ASO 100 and three hours of restricted electives.
- Free Electives** 17 hours
- Total Curriculum Requirements** 128 hours

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

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.)

- Major Requirements** 34-36 hours
BIO 131, 141, 211, 315, 316, 320; 328 or 348; 490, 514, or elective in biology at the 300-500 level.
- Supporting Course Requirements** 32-33 hours
CHE 111, 112, 361, 366, 362 and 367; MAT 124* or 261*; PHY 131, 132; STA 215 or STA 270.
- General Education Requirements** 33 hours
Standard General Education program, excluding course categories 03, 13, 14, 15, 16 and 21. Refer to Section Four of the EKU Undergraduate Catalog for details on the General Education and University requirements.

University Requirements 4 hours
 ASO 100 and three hours of restricted electives.
Free Electives** 19-25 hours
Total Curriculum Requirements 128 hours

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

Chemistry (B.A.)

Major Requirements 30 hours
 CHE 111, 112, 325, 361, 362, 366, 367, 470, six hours of upper division chemistry electives.

Supporting Course Requirements 13-14 hours
 MAT 124* or 261*; PHY 131 or 201; PHY 132 or 202. It is recommended and expected that pre-medical and pre-dental students in this degree program also take BIO 141, 211, 315, 320, 348, 546, 547 as free electives.

General Education Requirements 39 hours
 Standard General Education program, excluding course categories 14, 15, 16 and 21. PSY 200 is substituted for Health 281 for pre-medical and pre-dental students. Refer to Section Four of the EKU Undergraduate Catalog for details on the General Education and University requirements.

University Requirements 4 hours
 ASO 100 and three hours of restricted electives.

Free Electives** 41-42 hours
Total Curriculum Requirements 128 hours

* 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. Steven Savage
 (859) 622-1644
 Keith 223

Faculty

M. Allen, A. Banks, P. Black, D. Burnham, K. Carmean, J. Curra, J. Denton, R. Futrell, M. Goldstein, M. Gore, S. McSpirit, M. Miranda, D. Smith, R. Welch, and P. Winther

Social Work Program

To major in social work a student must declare social work as a first major. To enroll in either of the practicum courses, SWK 390 or SWK 490, a student is required to complete the prerequisites for the specific course; maintain a cumulative grade point average of 2.0; attain a minimum grade of "C" in each course specified for the major and supporting courses; and apply for admission to the specific practicum course the semester prior to enrollment. For additional information, contact the practicum instructor.

ADMISSION

Any student who is accepted by the University Admissions Office and declares their major as social work will be admitted as a pre-social work major. Admission to pre-social work does not guarantee admission to the Professional Social Work Program. For admission requirements and procedures see the Program Coordinator.

Baccalaureate Degrees

ANTHROPOLOGY (B.A.)

CIP Code: 45.0201

Major Requirements 33 hours
 ANT 120, 201, 210, 211, 350, 390, 395, and nine hours selected from three of the following four categories:
 ANT 353, 355, 360, 470 or equivalent;
 ANT 330, 331, or 435;
 ANT 310;
 ANT 365, 380, or 385;
 and three hours in anthropology to be selected in consultation with the advisor.

General Education Requirements 51 hours
 Standard General Education program. Refer to Section Four of this *Catalog* for details on the General Education and University requirements.

University Requirements 4 hours
 ASO 100 and three hours of restricted electives.

Free Electives 40 hours
Total Curriculum Requirements 128 hours

SOCIAL WORK (B.S.W.)

CIP Code: 44.0701

Major Requirements 45 hours
 SWK 210, 225, 310, 311, 335, 350, 354, 355, 358, 360, 390, 410, and 490.

Supporting Course Requirements 15 hours
 POL 101, PSY 202, SOC 131, 232, and 400.

General Education Requirements 45 hours
 Standard General Education program, excluding course categories 09 and 12. Refer to Section Four of this *Catalog* for details on the General Education and University requirements.

University Requirements 4 hours
 ASO 100 and three hours of restricted electives.

Free Electives 19 hours
 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.

Total Curriculum Requirements 128 hours

SOCIOLOGY (B.A.)

CIP Code: 45.1101.01

- Major Requirements 30 hours**
SOC 131, 232, 395, 461, a minimum of three hours from SOC 420, 460, 463, or 470; and 15 hours of sociology electives, 12 of which must be upper division hours.
- General Education Requirements 51 hours**
Standard General Education program. Refer to Section Four of this *Catalog* for details on the General Education and University requirements.
- University Requirements 4 hours**
ASO 100 and three hours of restricted electives.
- Free Electives 43 hours**
- Total Curriculum Requirements 128 hours**

Minors

MINOR IN ANTHROPOLOGY

A student may minor in anthropology by taking a minimum of 18 hours as follows: ANT 120, 201; ANT 210 or 211; and nine hours of upper division anthropology electives.

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, PLA 220, ECO 130, 231, or 365.

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.

Certificates

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 Coordinator for more complete information on the application and requirements for the Public Child Welfare Certification Program.

DEPARTMENT OF ART AND DESIGN

Chair

Dr. Gil Smith
(859) 622-1629
Campbell 309

Faculty

D. Afsah-Mohallatee, G. Civey, D. Halbrooks, E. Hale, B. Kurzinger, J. Molinaro, M. Ramsey, K. Spears, and M. Tortorici

Baccalaureate Degrees

ART (B.A.)

CIP Code: 50.0702

- Major Requirements 79 hours**
- Studio Foundations 15 hours**
ART 100, 101, 152, 153, and 164.
- Art Core 27 hours**
ART 210, 220, 230, 270, 280, 390, 391, 562, and three hours art history elective.
- Teacher Education Option 37 hours**
ART 460, EDF 103, 203, EPY 319, 413, SED 401, EME 439, ESE 440, 490, and EMS 499.
- Liberal Arts Option 1: 37 hours**
ART240; in consultation with Art advisor, select additional 9-12 hours of art and/or art history electives, and an appropriately related non-Art minor up to 25 hours; additional hours up to 37 may be taken as free electives.
- Liberal Arts Option 2: 37 hours**
ART 240; select additional 9-12 hours of art and/or art history electives, and up to 25 hours of free electives.
- General Education Requirements 45 hours**
Standard General Education program, excluding course categories 07 and 08. Refer to Section Four of this *Catalog* for details on the General Education and University requirements.
- University Requirements 4 hours**
ASO 100 and three hours of restricted electives.
- Total Curriculum Requirements 128 hours**

ART/STUDIO OPTIONS (B.F.A.)

CIP Code: 50.0702

- Major Requirements 73 hours**
- Studio Foundations 15 hours**
ART 100, 101, 152, 153, and 164.
- Art Core 31 hours**
ART 210, 220, 230, 240, 270, 280, 390, 391, 499, 562, and three hours art history elective.
- B.F.A. Studio Options 15 or 27 hours**
- Ceramics 15 hours**
ART 371, 372, 472, 473, and 474.
- Graphic Design 27 hours**
ART 250, 254, 350, 351 or 352, 451, 452, 453, and 454 with additional requirement of three hours credit to be approved by area chair in accordance with departmental policy.

Jewelry and Metalsmithing	15 hours
ART 341, 343, 344, 443, and 444.	
Painting	15 hours
ART 312, 313, 314, 413, and 414.	
Photography	15 hours
ART 381, 382, 383, 483, and 484.	
Printmaking	15 hours
ART 331, 332, 433 for six hours, and 434.	
Sculpture	15 hours
ART 321, 322 for six hours, 423, and 424.	
Art Electives	12 hours
Hours to be taken outside the student's selected option, nine hours must be upper division. (Due to a 27 hour option, design majors do not have the 12 hour art elective requirement.)	
General Education Requirements	45 hours
Standard General Education program, excluding course categories 07 and 08. Refer to Section Four of this <i>Catalog</i> for details on the General Education and University requirements.	
University Requirements	4 hours
ASO 100 and three hours of restricted electives.	
Free Electives	6 hours
Total Curriculum Requirements	128 hours

INTERIOR DESIGN (B.A.)*CIP Code: 19.0601*

Major Requirements	69 hours
IDH 121, 221, 222, 224, 229, 322, 326, 327, 328, 329, 330, 331, 422, 426, 428**; CON 250, 350; TEC 331, ADM 201 and 302, ART 152 and 153.	
Supporting Course Requirements	10 hours
ART 390 and 391; and four hours from the following: ART 100, 101, 250, 280; JOU 325; TEC 391; OHO 362A, 362E, 362K; IDH electives.	
General Education Requirements	45 hours
Standard General Education program, excluding course categories 07 and 08. Refer to Section Four of this <i>Catalog</i> for details on the General Education and University requirements.	
University Requirements	4 hours
ASO 100 and three hours of restricted electives.	
Total Curriculum Requirements	128 hours

**Students must have a minimum 2.25 GPA and a minimum 2.6 Major GPA in the major to enroll in IDH 428. Students not meeting these requirements will take other IDH electives or repeat IDH required courses to meet these criteria.

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.

MINOR IN INTERIOR DESIGN

A student may minor in Interior Design by completing a minimum of 18 hours as follows:

IDH 121, 224, 229, 320, 328, and select 3 hours from ADM 302 or an IDH elective.

DEPARTMENT OF BIOLOGICAL SCIENCES**Chair**

Dr. Barbara Ramey
(859) 622-1531
Moore 235

Faculty

S. Byrd, P. Calie, R. Clark, P. Cupp, D. Eakin, C. Elliott, W. Farrar, M. Foster, R. Frederick, J. Harley, S. Harrel, R. Jones, T. Keefe, M. Pierce, G. Ritchison, G. Schuster, W. Staddon, and S. Sumithran

Baccalaureate Degrees**BIOLOGY (B.S.)***CIP Code: 26.0101***Major Requirements** **34-36 hours****Biology Core**

BIO 131, 141, 211, 315, 316, 320; 328 or 348; 490, 514, and one elective in biology at the 300-500 level.

Options**Aquatic Biology** **15 hours**

BIO 525, 542, 557, 558, and one course from BIO 340, 524, 556, 561.

Botany **15-16 hours**

BIO 335, 521, 598**, and two courses from BIO 522, 524, 525, 536, 599; BIO 531 or CHE 530 and 532.

Microbial, Cellular and Molecular Biology

..... **15-18 hours**

BIO 331, 527, 530, 531, and one course from BIO 528, 597, CLS 350, or CHE 530 and 532.

Supporting Course Requirements **32-33 hours**

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

General Education Requirements **33 hours**

Standard General Education program, excluding course categories 03, 13, 14, 15, 16 and 21. Refer to Section Four of this *Catalog* for details on the General Education and University requirements.

University Requirements 4 hours
 ASO 100 and three hours of restricted electives.
Free Electives 4-25 hours
Total Curriculum Requirements 128 hours

*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 34-36 hours
 BIO 131, 141, 211, 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, 112, 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, EPY 319, 413, SED 401, ESE 441, 498, 499.

General Education Requirements 30 hours
 Standard General Education program, excluding course categories 03, 04, 13, 14, 15, 16 and 21. Refer to Section Four of this *Catalog* for details on the General Education and University requirements.

University Requirements 4 hours
 ASO 100 and three hours of restricted electives.

Total Curriculum Requirements 132-138 hours

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

ENVIRONMENTAL STUDIES (B.S)

CIP Code: 26.0603

Major Requirements 34 hours
 BIO 131 or 141, 211, 316, 320; CHE 111, 112; GLY 108 and GLY 109 and GLY 415.

Supporting Course Requirements 18 hours
 CSC 104, 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: 15-17 hours

Environmental Technology 16 hours
 CHE 325, 361, 366, 480, 481; GLY 535; PHY 510.

Land Resources 15-17 hours
 BIO 490; BIO 558 or GLY 535; GEO 355 or GEO 556; BIO 521 or BIO 536; must choose 2 of the following: AGR 315 or 318; ECO 580, 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 18-21 hours
Environmental Technology 18 hours
 MAT 124**, 224; PHY 131, 132.

Land Resources 18-19 hours
 AGR 215, CHE 325, GEO 353, MAT 107 and MAT 108, or MAT 109; must choose 1 of the following: BIO 489, CHE 495, GEO 498, GLY 398.

Natural History 19-21 hours
 BIO 131 or BIO 141 (must take course not taken as Major Requirement); BIO 315; MAT 107 and 108, or 109; Must choose 2 of the following: ANT 350; BIO 328 or 348; BIO 335, 524, 525, 536, 542, 556, 557, GEO 353, HIS 516.

General Education Requirements 27 hours
 Standard General Education program, excluding general education mathematics requirement and course categories 03, 04, 07, 13, 14, 15, 16 and 21.

University Requirements 4 hours
 ASO 100 and three hours of restricted electives.

Free Electives 7-12 hours
Total Curriculum Requirements 128 hours

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

WILDLIFE MANAGEMENT (B.S.)

CIP Code: 03.0601

Major Requirements 59-62 hours
 BIO 131, 141, 211, 315, 316; 320 or 342; 328 or 348; 335, 381, 382, 489, 490, 514, 553, 554, 585, 586; one course from BIO 340, 518, 522, 525, 532, 536, 542, 556, 557, 558, 561, 599.

Supporting Course Requirements 26-27 hours
 CHE 111, 112; MAT 108 or MAT 124* or MAT 261*; STA 215 or STA 270; AGR 215; minimum of 9 semester hours from CHE 330; 361 and 366; 362 and 367; GLY 108, GEO 335, 353, 556, STA 271, PHY 131, 132.

General Education Requirements 33 hours
 Standard General Education program, excluding course categories 03, 13, 14, 15, 16 and 21. Refer to Section Four of this *Catalog* for details on the General Education and University requirements.

University Requirements 4 hours
 ASO 100 and three hours of restricted electives.

Free Electives 2-6 hours
Total Curriculum Requirements 128 hours

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

Minors

MINOR IN BIOLOGY

A student may qualify for a minor in biology by completing 21 semester hours to include BIO 131, 141, 211, 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. C. Frank Shaw III
 (859) 622-1456
 Moore 337

Faculty

M. Brock, R. Eisenberg, R. Fraas, S. Godbey, T. Otieno, J. Reeder, A. Schick, W. Schulz, V. Stubblefield, D. Vance, and L. Wilson

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

CIP Code: 40.0501

Major Requirements 30 hours

CHE 111, 112, 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 451, 490, 499; GLY 302.

General Education Requirements 37-40 hours

Standard General Education program, excluding course categories 14, 15, 16 and 21. Additionally, Category 13 is excluded for the Teaching option. Refer to Section Four of this *Catalog* for details on the General Education and University requirements.

University Requirements 4 hours

ASO 100 and three hours of restricted electives.

Free Electives 3-40 hours**Total Curriculum Requirements 128 hours**

^ 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 37-44 hours**Chemistry Core 28 hours**

CHE 111, 112, 325, 361, 362, 366, 367, 471, 472, 473 (2) and must include one of the following options.

Options**Biochemistry 9 hours**

CHE 480, 481, 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 22-37 hours

Biochemistry 37 hours
 BIO 131 or BIO 141; 211, 331; 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 33-36 hours

Standard General Education program, excluding course categories 03, 14, 15, 16 and 21 (chemistry) or course categories 03, 13, 14, 15, 16 and 21 (biochemistry). Refer to Section Four of this *Catalog* for details on the General Education and University requirements.

University Requirements 4 hours

ASO 100 and three hours of restricted electives.

Free Electives 17-22 hours**Total Curriculum Requirements 128 hours**

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

FORENSIC SCIENCE (B.S.)

CIP Code: 43.0106

Major Requirements 53-54 hours**Core Requirements 35 hours**

CHE 111, 112, 325, 361, 362, 366, 367, 470, FOR 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 14-15 hours

BIO 211, 315, 331 or 531, CHE 530.

Supporting Course Requirements 19-20 hours

LAS 210 or PAD 316, MAT 124** or 261**; PHY 131 or 201; PHY 132 or 202; STA 270.

General Education Requirements 36 hours

Standard General Education program, excluding course categories 03, 14, 15, 16 and 21. Refer to Section Four of this *Catalog* for details on the General Education and University requirements.

University Requirements 4 hours

ASO 100 and three hours of restricted electives.

Free Electives 17-20 hours**Total Curriculum Requirements 128 hours**

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.

** 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, CHE 112, and an additional 12 hours of upper division chemistry courses.

MINOR IN CHEMISTRY (TEACHING)

A student may obtain a teaching minor in chemistry by completing CHE 111, CHE 112, 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: CHE 325, 330, 361/366, and 470.]

DEPARTMENT OF COMPUTER SCIENCE

Chair
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Wallace 417

Faculty

D. Fields, B. Janeway, C. Rhee, R. Rink, E. Styer, and K. Wong

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 45-51 hours**Computer Science Core 33 hours**

CSC 190, 191, 195, 200, 302, 306, 310, 312, 370, and two of CSC 300, 350, 390, 401, 425, 440, 450, 460, 490, 545, or 546 or 550 that are not required by the option.

Options

Computer Science (General) 12 hours
(Accredited by the Computer Science Accreditation Commission of the Computer Science Accreditation Board)

CSC 320, 350, 400; 440 or 460.

Computer Technology 18 hours

CSC 401; EET 253, 254, 302, 303, 354.

Supporting Course Requirements 21-35 hours

Computer Science (General) 30-35 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 131, 141; CHE 111, 112; 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 hours
CSC 104, 3 hours of CSC 349¹; EET 251, 252, 257; EET 351; one of MAT 124*, 124H, 211* or 261*.

General Education Requirements 30-42 hours

Computer Science (General) 30 hours
Standard General Education program, excluding categories 03, 04, 13, 14, 15, 16 and 21. Refer to Section Four of this *Catalog* for details on the General Education and University requirements.

Computer Technology 42 hours
Standard General Education program, excluding categories 03, 04, and 21. Refer to Section Four of this *Catalog* for details on the General Education and University requirements.

University Requirements 4 hours
ASO 100 and three hours of restricted electives.

Free Electives 10-19 hours

Computer Science (General) 14-19 hours

Computer Technology 10 hours

Total Curriculum Requirements 128 hours

¹Under 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.

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

Minors**MINOR IN COMPUTER SCIENCE**

A student may minor in computer science by completing CSC 190, 191, 195, 302, 310, and one of the CSC 200, 312, or 320.

DEPARTMENT OF EARTH SCIENCES

Acting Chair
Dr. Malcolm P. Frisbie
(859) 622-1273
Roark 103

Faculty

C. Dean, M. Dieckmann, R. Ewers, S. Farrar, K. Houck, B. MacLaren, and J. Maki

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, 304, 351, 390, and two from the following: GLY 307, 309, 408, 410, 415, 420, and 550.
- Minor Requirements** 16-21 hours
A teaching minor must be taken in another natural science, computer science, or mathematics.
- Supporting Course Requirements** 14-18 hours
NAT 101, BIO 100, 102, or 141; CHE 101 or 111; MAT 109 or 124; NAT 171, PHY 101, 102, or 131; CSC 104 or CIS 212.
- Teacher Education Requirements** 31 hours
EDF 103, 203; EPY 319, 413; SED 401; ESE 451, 490, and 499.
- General Education Requirements** 34 hours
Standard General Education program, excluding course categories 03, 13, 14, 15, 16 and 21. Refer to Section Four of this *Catalog* for details on the General Education and University requirements.
- University Requirements** 4 hours
ASO 100 and three hours of restricted electives.
- Total Curriculum Requirements** 134-143 hours

GEOLOGY (B.A)*CIP Code: 40.0601*

- Major Requirements** 31 hours
GLY 108, 109, 309, 311, 409, 410, 415, 420; and a minimum of three additional hours from GLY 351, 408, 490, 499, 535, 540, 550, 580.
- Supporting Course Requirements** 21-23 hours
BIO 100 or NAT 101; CHE 101 or 111; MAT 109; NAT 171 or PHY 101 or 131; two semesters of foreign language approved by department.
- General Education Requirements** 30 hours
Standard General Education program, excluding course categories 03, 04, 13, 14, 15, 16 and 21. Refer to Section Four of this *Catalog* for details on the General Education and University requirements.
- University Requirements** 4 hours
ASO 100 and three hours of restricted electives.
- Free Electives** 40-42 hours
- Total Curriculum Requirements** 128 hours

GEOLOGY (B.S.)*CIP Code: 40.0601*

- Major Requirements** 40 hours
GLY 108, 109, 309, 311, 409, 410, 415, 420, 550, and minimum of 9 additional hours from GLY 351, 408, 490, 499, 535, 540, 580. 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 additional course.
- Supporting Course Requirements** 28 hours
BIO 100 or NAT 101; CHE 111, 112; GEO 353 or 355; MAT 124*, PHY 131, 132. STA 270 and some computer science are strongly recommended.

- General Education Requirements** 33 hours
Standard General Education program, excluding course categories 03, 13, 14, 15, 16 and 21. Refer to Section Four of this *Catalog* for details on the General Education and University requirements.
- University Requirements** 4 hours
ASO 100 and three hours of restricted electives.
- Free Electives** 23 hours
- Total Curriculum Requirements** 128 hours

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

Minors**MINOR IN GEOLOGY**

A student may minor in geology by completing a minimum of 18 semester hours as follows: GLY 108, 109; and 309 or 410 or 415; and a minimum of 8 additional hours of upper division geology courses, excluding GLY 302, 307, and 349. Either GLY 304 or GLY 390 may be counted toward the minor, but not both.

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 307, 309, 351, 390, 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**Chair**

Dr. John A. Wade
(859) 622-1769
Beckham 237

Faculty

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

Baccalaureate Degree**ECONOMICS (B.A.)***CIP Code: 45.0601*

- 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, 315, and six 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, 394, 570, 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 48 hours
Standard General Education program, excluding general education course category 21. Refer to Section Four of this *Catalog* for details on the General Education and University requirements.

University Requirements 4 hours
ASO 100 and three hours of restricted electives.

Free Electives 22 hours

Total Curriculum Requirements 128 hours

Minors

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
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Coordinator of Theatre Programs
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Faculty

E. Allameh, G. Bedetti, H. Bennett, H. Blythe, T. Boord-Dill, H. Brown, R. Clewett, D. Core, J. Culross, T. Culross, M. Dean, D. Elias, R. Freed, G. Gray, A. Harnack, O. Hill, A. Hunt, B. Hussey, K. Johnson, J. Kenkel, P. Kopacz, P. Kristofik, M. McLaren, R. Milde, J. Miller, J. Moreton, M. Myers, S. Nnoromele, J. Pellegrino, K. Rahimzadeh, C. Rich, S. Robinson, J. Steinbach, J. Stephens, G. Sutton, D. Sutton, C. Sweet, B. Szubinska, H. Tracy, K. Warner, C. Whitaker, and I. White

Baccalaureate Degrees

ENGLISH (B.A.)

CIP Code: 23.0101

Major Requirements 39 hours

Core 24 hours

ENG 301, 302**, 350, 351, 352, 353, 410, and 474.

Options

Literature Emphasis 15 hours

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 15 hours

A minimum of 15 additional hours selected from the following: ENG 306, 307, 406, 420, 502 or one course, for which prerequisites have been met, from the Technical Writing Emphasis.

Technical Writing Emphasis 15 hours

A minimum of 15 additional hours to include ENG 300, 400, 420, 500 (may be taken twice but must include at least one practicum); 510 or one of the following crossover courses in the Creative Writing Emphasis, assuming prerequisites have been met: 306, 307, 406, 502.

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: SPE 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: SPE 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 any three tracks following: ACS 201, 290, 302, 480; ART 152, 356; BEM 375; CIS 212 or CSC 104, CIS 240; COM 320A (1 hour credit) and additional one-hour courses from 320B, 320E, 320G, 320H, and 320I; PMT 211 & 212 (lab), 217, 316, 317; SPE 300, 320, 350, 353.

General Education Requirements **51 hours**
Standard General Education program. Refer to Section Four of this *Catalog* for details on the General Education and University requirements.

University Requirements **4 hours**
ASO 100 and three hours of restricted electives.

Free Electives **16-22 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, and 353).

ENGLISH/TEACHING (B.A.)

CIP Code: 23.0101

Major Requirements **33 hours**
ENG 301, 302**; 350 or 351; 352 or 353; 405, 410, 474; 510 or 520; and at least nine additional upper division literature 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.

Supporting Course Requirements **6 hours**
Six hours of one foreign language* at the appropriate level or American Sign Language

Professional Education Requirements **34 hours**
EDF 103, 203, EPY 319, 413, SED 401; ESE 443, 498, 499, and 574.

General Education Requirements **51 hours**
Standard General Education program. Refer to Section Four of this *Catalog* for details on the General Education and University requirements.

Free Electives **3 hours**

University Requirements **1 hour**
ASO 100.

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, and 353).

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.

PERFORMING ARTS (B.F.A.)

CIP Code: 50.0501

Major Requirements **65 hours**
THE 110, 135, 200, 235, 280, 285 (2), 130/330 (3), 340 (2), 341, 385 (2); 390 or 391; 498; eight hours of applied voice: (MUS 122, 222, 322, 422), MUS 181, 182, three hours from 272, 273, 371, or 372, and two hours vocal ensemble consisting of appropriate sections of MUS 225 or 226 starting the first semester of entrance into the program. Candidates must meet piano certification

requirements as stated in the music section of this *Catalog*. Fourteen hours to be chosen, in consultation with the departmental advisor, from the following courses: THE 150, 210, 220, 285, 310, 311, 320, 335, 385, 390, 391, 430, 435, 442, 490, 499, MUS 272, 273, 371, 372, 322, 422, 225, or 226.

General Education Requirements **51 hours**
Standard General Education program. Refer to Section Four of this *Catalog* for details on the General Education and University requirements.

University Requirements **4 hours**
ASO 100 and three hours of restricted electives.

Free Electives **8 hours**

Total Curriculum Requirements **128 hours**

THEATRE/TEACHING (B.A.)

CIP Code: 23.1001.02

Major Requirements **28 hours**
THE 110, 135, 150, 200, 220, 235, 130/330 (2), 341; 390 and 391.

Supporting Course Requirements **9 hours**
SPE 100, 205 and 210.

Minor Requirements **27 hours**
A 27-hour teaching minor in English is required. ENG 301, 302, 350 or 351; 352 or 353; 405, 410; 510 or 520; 335 or 430; and ESE 574.

Professional Education Requirements **31 hours**
EDF 103, 203, EPY 319, 413, SED 401; ESE 443, 498, and 499.

General Education Requirements **49 hours**
Standard General Education program, excluding course in Category 21. Refer to Section Four of this *Catalog* for details on the General Education and University requirements.

University Requirements **4 hours**
ASO 100 and three hours of restricted electives. (Restricted electives may count toward the minor to reduce the hours in the total curriculum.)

Total Curriculum Requirements **148 hours**

THEATRE (B.A.)

CIP Code: 50.0501

Major Requirements **41 hours**
THE 110, 135, 150, 200, 210, 220, 235; 285 or 385; three hours from THE 310, 311 or 320; THE 341, 390, 391, 430, 130/330 (4).

General Education Requirements **51 hours**
Standard General Education Program. Refer to Section Four of this *Catalog* for details on the General Education and University requirements.

University Requirements **4 hours**
ASO 100 and three hours of restricted electives.

Free Electives **32 hours**

Total Curriculum Requirements **128 hours**

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, and 353).

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, and 353).

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. Anne Brooks
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 Case Annex 368

Faculty

A. Bettler, D. Carter, M. Cortes-Castaneda, K. Hill, R. King, T. Kiogora, T. Langenbruch, U. Shin, 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 Eastern.
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 Eastern, the exact minimum to be determined by the department chair in consultation with the foreign language faculty.

4. Eastern students are required to obtain the department chair's written prior approval of any course work they plan to transfer back to Eastern 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 303, 313, 314, 315, 316, 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 48 hours
 Standard General Education program, excluding category 07. Refer to Section Four of this *Catalog* for details on the General Education and University requirements.

University Requirements 4 hours
 ASO 100 and three hours of restricted electives.

Free Electives 43 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 303, 313, 314, 315, 316, 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.

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.	
Professional Education Requirements	34 hours
EDF 103, 203; EPY 319, 413; SED 401; EME 442, EMS 499; ESE 443 and 490.	
General Education Requirements	48 hours
Standard General Education program, excluding category 07. Refer to Section Four of this <i>Catalog</i> for details on the General Education and University requirements.	
University Requirements	4 hours
ASO 100 and three hours of restricted electives.	
Free Electives	9 hours
Total Curriculum Requirements	128 hours

SPANISH (B.A.)

CIP Code: 16.0905

Major Requirements	30 hours
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.	
General Education Requirements	51 hours
Standard General Education program. Refer to Section Four of this <i>Catalog</i> for details on the General Education and University requirements.	
University Requirements	4 hours
ASO 100 and three hours of restricted electives.	
Free Electives	43 hours
Total Curriculum Requirements	128 hours

SPANISH/TEACHING (B.A.)

CIP Code: 16.0905

Major Requirements	30 hours
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.	
Professional Education Requirements	34 hours
EDF 103, 203, EPY 319, 413, SED 401; EME 442, ESE 443, 490, and EMS 499.	

General Education Requirements	51 hours
Standard General Education Program. Refer to Section Four of this <i>Catalog</i> for details on the General Education and University requirements.	
University Requirements	4 hours
ASO 100 and three hours of restricted electives.	
Free Electives	9 hours
Total Curriculum Requirements	128 hours

Minors**MINOR IN FRENCH**

Requirements	21 hours
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.]	
Supporting Course Requirements	3 hours
FCC 220 is required. Strongly recommended: HIS 354.	
Total Curriculum Requirements	24 hours

MINOR IN HUMANITIES

A student may minor in humanities by completing the following courses: HUM 124; 226 or 228; 300 or 400; 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

Requirements	21 hours
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.	
Total Curriculum Requirements	21 hours

Certificates

CERTIFICATE IN FRENCH CONVERSATION AND CULTURE

Prerequisites 0-6 hours
 FRE 101 and 102 (or equivalent).
Requirements 15 hours
 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.
Total Curriculum Requirements 15-21 hours

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

Chair
Dr. Bruce E. Davis
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 Roark 201

Faculty
 K. Bhattarai, A. Jones, R. Sambrook, and D. Zurick

Baccalaureate Degrees

GEOGRAPHY (B.A.)
CIP Code: 45.0701

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 below:

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 521; 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 42 hours
 Standard General Education program, excluding course categories 04, 09, and 14. Refer to Section Four of this *Catalog* for details on the General Education and University requirements.

University Requirements 4 hours
 ASO 100 and three hours of restricted electives.

Free Electives 31 hours
Total Curriculum Requirements 128 hours

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

GEOGRAPHY/TEACHING (B.A.)

CIP Code: 45.0701

Major Requirements 30 hours
 GEO 200, 210, 220, 302; GEO 321 or 322; GEO 330; 3 hours from GEO 341, 342, 343, 344, or 347; GEO 450, GLY 108, and three hours of upper division geography electives.

Minor 21 hours
 Unless the student has a second major in an appropriate discipline, a 21 hour teaching minor is required. A history (teaching) minor is strongly recommended to complement the geography major, but state requirements also permit a minor in Art, English, French, Mathematics or Spanish.

Professional Education Requirements 31 hours
 EDF 103, 203; EPY 319, 413; SED 401; ESE 449, 490, and 499.

General Education Requirements 45 hours
 Standard General Education program, excluding course categories 12 and 14. Refer to Section Four of this *Catalog* for details on the General Education and University requirements.

University Requirements 4 hours
 ASO 100 and three hours of restricted electives.

Total Curriculum Requirements 131 hours

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, 220, 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 521, 6 hours from GEO 321, 330, 325 and 435.

Note: minor not open to geography majors.

DEPARTMENT OF GOVERNMENT

Chair
Dr. Richard Vance
(859) 622-5931
McCreary 113

Faculty

P. Blanchard, T. Busson, R. Dean, J. Ewalt, K. Johnson, J. McCord, G. Rainey, J. Rainey, 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 (AA, 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. A grade of "C-" is insufficient to meet this requirement.

TRANSFER STUDENTS

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

Baccalaureate Degrees

PARALEGAL SCIENCE (B.A.)

CIP Code: 22.0103

Major Requirements **40 hours**
LAS 210, 220, 300, 320, 325, 350, 385, 399, 410 and 12 hours from LAS 330, 340, 360, 370, 380, 460 or 490.
Supporting Course Requirements **12 hours**
ACC 201, ENG 301, POL 101, and three hours from POL 460, 463, or 464.
General Education Requirements **51 hours**
Standard General Education program, excluding course category (12). Refer to Section Four of this *Catalog* for details on the General Education and University requirements.
University Requirements **4 hours**
ASO 100 and three hours of restricted electives.
Free Electives **21 hours**
Total Curriculum Requirements **128 hours**

POLITICAL SCIENCE (B.A.)

CIP Code: 45.1001

Major Requirements **33 hours**
POL 101; nine hours from international relations and/or comparative courses, six hours of which must be from courses numbered 300 and above: nine hours from American Government and/or Public Administration courses; in addition to POL 101; POL 280, three hours from POL 551, 552 or 553; plus six other hours in political science. A total of 18 hours must be in courses numbered 300 or above. No more than six hours of POL 349 may count toward this major. (*To identify courses in international relations, comparative government, American government, public administration, and methodology see the note preceding POL course descriptions.*)

General Education Requirements	51 hours
Standard General Education program. Refer to Section Four of this <i>Catalog</i> for details on the General Education and University requirements.	
University Requirements	4 hours
ASO 100 and three hours of restricted electives.	
Free Electives	40 hours
Total Curriculum Requirements	128 hours

Associate Degree

PARALEGAL STUDIES (A.A.)

CIP Code: 22.0103

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	28 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, ENG 301, and three hours of restricted electives.	
Total Curriculum Requirements	65 hours

Two of these five hours of restricted electives must be in general education.

Minors

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.

DEPARTMENT OF HISTORY

Chair
Dr. Ronald K. Huch
 (859) 622-1287
 Keith 323

Faculty

T. Appleton, D. Blaylock, L. Chase, D. Coleman, A. G. Dunston, H. Everman, M. Klatte, M. Lewis, D. Sefton, J. Spock, P. Szkoc, C. Taylor, S. Warren, R. Weise, and B. Wood

Baccalaureate Degrees

HISTORY (B.A.)

CIP Code: 45.0801.01

Major Requirements 34 hours

HIS 200, 202, 203, 449, 450, and 21 upper division hours with a minimum of six hours in each of the following areas:

Area I (U.S.): HIS 300 (3 hrs), 303, 305, 401, 402, 403, 405, 406, 408, 411, 412, 413, 415, 420, 433, 500, 507, 509, 516, 530, or 531.

Area II (Europe): HIS 300 (3 hrs), 315, 336, 339, 342, 343, 344, 345, 346, 347, 350, 354, 360, 363, 365, 500, or 549.

Area III (Non-Western): HIS 300 (3 hrs), 320, 374, 375, 378, 383, 384, 474, 475, or 500.

The remaining upper division history course may come from any of the above areas or from other upper division history courses.

Formal term papers are to be written as part of the course requirements in two of the seven upper division history courses. The two courses with term papers must be in different areas of upper division course distribution.

General Education Requirements 51 hours

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

University Requirements 4 hours

ASO 100 and three hours of restricted electives.

Free Electives 39 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: 45.0801.01

Major Requirements 34 hours

HIS 200, 202, 203, 449, 450, and 21 upper division hours with a minimum of six hours in each of the following areas:

Area I (U.S.): HIS 300 (3 hrs), 303, 305, 401, 402, 403, 405, 406, 408, 411, 412, 413, 415, 420, 433, 500, 507, 509, 516, 530, or 531.

Area II (Europe): HIS 300, (3 hrs), 315, 336, 339, 342, 343, 344, 345, 346, 347, 350, 354, 363, 365, 500, or 549.

Area III (Non-Western): HIS 300 (3 hrs), 320, 374, 375, 378, 383, 384, 474, 475, or 500.

The remaining upper division history course may come from any of the above areas or from other upper division history courses.

Formal term papers are to be written as part of the course requirements in two of the seven upper division history courses. The two courses with term papers must be in different areas of upper division course distribution.

Supporting Course Requirements 21 hours

ANT 120 or SOC 131, ECO 120 or 130, PSY 200, GEO 200 or GEO 220 or GEO 322; POL 101 and POL 220 or POL 100.

Professional Education Requirements 31 hours
 EDF 103, 203, EPY 319, 413, SED 401; ESE 449, 490, and 499.
General Education Requirements 45 hours
 Standard General Education program, excluding course categories 09 and 12. Refer to Section Four of this *Catalog* for details on the General Education and University Requirements.
University Requirements 4 hours
 ASO 100 and three hours of restricted electives.
Total Curriculum Requirements 135 hours

SECOND MAJOR IN HISTORY

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

Minors

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

Acting Chair
Dr. Ken Nelson
(859) 622-5942
Wallace 312

Faculty

P. Bland, R. Buskirk, K. Cain, V. Camerlengo, P. (Patricia) Costello, P. (Patrick) Costello, B. Givan, D. Greenwell, K. Jones, L. Kay, M. LeVan, A. Maison, S. Metcalf, R. Nelson, D. Ng, R. Pierce, D. Ryoti, M. Stribling, R. Tennant, J. Wilson, and M. Yoder

Baccalaureate Degrees

COMPUTER SCIENCE/MATHEMATICS TEACHING (B.S.)

CIP Code: 13.1399.05

Program Objectives

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

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

Major Requirements 41 hours
 CSC 190, 191, 195, 302; 305 or 306; 310; MAT 124* or 124H; 214; 224 or 224H; 301, 308, 334, 380. 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 Requirement 6 hours
 CSC 104, STA 270. All courses must be completed with a grade of at least a "C-".
Professional Education Requirements 31 hours
 EDF 103, 203, EPY 319, 413, SED 401, ESE 450, 490, 499.
General Education Requirements 42 hours
 Standard General Education program, excluding course categories 03, 04 and 21. Refer to Section Four of this *Catalog* for details on the General Education and University requirements.
University Requirements 4 hours
 ASO 100 and three hours of restricted electives.
Free Electives 4 hours
Total Curriculum Requirements 128 hours

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

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 39 hours
 MAT 124* or 124H; 214; 224 or 224H; 225 or 225H; 301, 308, 315, 353; 408 or 415; one additional MAT course chosen from 408, 415, or any course number 505 or above (507 only with departmental approval); six hours chosen from: CSC 300, 320, STA 370, 520, 521, and any MAT course numbered 300 or above (except for 303, 349, 380, 501, 502). 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 180 or 190, and any three hour STA course numbered 270 or above (except 349).
General Education Requirements 42 hours
 Standard General Education program, excluding course categories 03, 04 and 21. Refer to Section Four of this *Catalog* for details on the General Education and University requirements.

University Requirements	4 hours
ASO 100 and three hours of restricted electives.	
Free Electives	37 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

* 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	36 hours
MAT 124* or 124H; 214; 224 or 224H; 225 or 225H; 285, 301, 308, 315, 334, 380; three hours of courses chosen from: CSC 300, 320, STA 370, 520, 521, and any MAT course numbered 300 or above (except for 303, 349, 501, or 502). 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	9 hours
Three hours of an approved programming language, CSC 104, STA 270. All courses must be completed with a grade of at least a "C-".	
Professional Education Requirements	31 hours
EDF 103, 203, EPY 319, 413, SED 401, ESE 450, 490, 499.	
General Education Requirements	42 hours
Standard General Education program, excluding course categories 03, 04 and 21. Refer to Section Four of this <i>Catalog</i> for details on the General Education and University requirements.	
University Requirements	4 hours
ASO 100 and three hours of restricted electives.	
Free Electives	6 hours
Total Curriculum Requirements	128 hours

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

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	42 hours
STA 270, 271, 370, 520, 521, two of STA 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
Three hours of an approved programming language.	
General Education Requirements	45 hours
Standard General Education program, excluding courses in categories 03 and 21. Refer to Section Four of this <i>Catalog</i> for details on the General Education and University requirements.	
University Requirements	4 hours
ASO 100 and three hours of restricted electives.	
Free Electives	34 hours
Total Curriculum Requirements	128 hours

* 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—CSC 180 or 190 or 300; one other course selected from CSC 190, 195, 300, or approved sections of CSC 178; mathematics—MAT 261 and 262, or MAT 124 or 124H, and 224 or 224H; and statistics—two of STA 270, 271, 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; CSC 195 or 300; STA 370 or 520; or any MAT course numbered 300 or above (except for MAT 349).

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. Robert James
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 Foster 101
 Rob.james@eku.edu

Faculty

J. Allison, C. Beeler, R. Bromley, M. Chambers, R. Crosby,
 D. Duncan, D. Greenlee, J. Martin, H. Mickens, C. Rhoades,
 J. Roberts, P. Sehmman, K. Sehmman, S. White, 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.

Piano, Theory, and Music Literature Requirements. All majors must complete four credits of class piano (MUS 110-111, 210-212 or MUS 114-115), 16 credits of music theory (MUS 181-182, 281-282), 9 credits of music history and literature (MUS 272, 371-372), 3 credits chosen from MUS 285, MUS 383, or MUS 481. All majors must also complete Electronic Music MUS 384.

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 eight 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

Major Requirements 70-84 hours

Core 53 hours

MUS 110, 111, 210, 211, or MUS 114 (2) and 115 (2), 181, 182, 272, 281, 282, 366, 371, 372, 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.

Options

Performance/Instrumental 31 hours

MUS 367 or 368, 499 (1), 550 (2), 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, and three hours of upper division music history. Six semesters of MUS 101.

Performance/Vocal 31 hours

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 and three hours of upper division music history. Six semesters of MUS 101.

Music Merchandising 26 hours
 MUS 349 (8), 390, 391, ACC 201, MGT 301, PUB 375, LAS 210. Six semesters of MUS 101.

Theory and Composition 26 hours
 MUS 283 (4), 483 (4), 555 or 556. Three hours of upper division theory. Three hours of music electives. Three hours of lower division and six hours of upper division selected from any area in Arts and Sciences, except music. Six semesters of MUS 101.

Music Teaching/Instrumental 17 hours
 MUS 230, 251, 252, 320, 330, 351, 352, 354, 364, 365, 367, EME 378, ESE 479 (instrumental students will be excused from taking the methods course that includes their major applied instrument). Six semesters of MUS 101.

Music Teaching/Vocal 17 hours
 MUS 220 (1), 230, 252, 351, 354, 364, 365, 368, 513 (2), EME 378, ESE 479. Six semesters of MUS 101.

Professional Education Requirements for Music Teaching Option 28 hours
 EDF 103, 203, EPY 319, 413, SED 401, ESE 490, EMS 499.

Supporting Course Requirements 6 hours
 Performance 6 hours
 Six hours of Foreign Language.
 Music Merchandising Option 6 hours
 ACS 201, CSC 104 or CIS 212.
 Theory and Composition Option 6 hours
 Six hours of Foreign Language.
 Music Teaching Option 6 hours
 MAT 105 or 107, CSC 104 or CIS 212.

General Education Requirements 39 hours
 Standard General Education program, excluding course categories 03, 04, 07 and 08. Refer to Section Four of the *Catalog* for details on the General Education and University requirements.

University Requirements 4 hours
 ASO 100 and three hours of restricted electives.

Total Curriculum Requirements 128-147 hours

Minors

MINOR IN MUSIC

Requirements 18 hours
 MUS 181, 182, 371, 372, and four hours of electives in music. Candidates must pass the Piano Proficiency Requirement or take MUS 110 and 111 which cannot be counted as a part of the minor.

DEPARTMENT OF PHILOSOPHY AND RELIGION

Chair
Dr. Ron Messerich
 (859) 622-1400
 Case Annex 268

Faculty
J. Brooks, B. Gray, B. Harris, 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, 333, 371, 499; 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 51 hours
 Standard General Education program. Refer to Section Four of this *Catalog* for details on the General Education and University requirements.
University Requirements 4 hours
 ASO 100 and three hours of restricted electives.
Free Electives 37 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. Christopher E. Laird
 (859) 622-1521
 Moore 351

Faculty
M. Ciocca, J. Cook, B. Milbrath, D. Sousa, J. Wernegreen, and G. Yoder

Baccalaureate Degrees

PHYSICAL SCIENCE/TEACHING (B.S.)

CIP Code: 40.0101

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

Major Requirements 46 hours
 AST 135, BIO 317 or NAT 363, CHE 111, 112, 325, 361;

PHY 201, 202, 300, 301; GLY 302, six hours from GLY 108, 109, 304, 390.

Supporting Course Requirements 14 hours
BIO 100 or NAT 101, CSC 104, MAT 124*, 224.

Professional Education Requirements 31 hours
EDF 103, 203, EPY 319, 413, SED 401, ESE 451, 498, 499.

General Education Requirements 30 hours
Standard General Education program, excluding course categories 03, 04, 13, 14, 15, 16 and 21. Refer to Section Four of this *Catalog* for details on the General Education and University requirements.

University Requirements 4 hours
ASO 100 and three hours of restricted electives.

Free Electives 3 hour

Total Curriculum Requirements 128 hours

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

PHYSICS (B.S.)

CIP Code: 40.0801

Major Requirements 37 hours

Core 21 hours

PHY 201, 202, 300, 301; 306 or 308; 558. At the discretion of the chair, PHY 131 may be substituted for PHY 201.

Options

Physics (General) 16 hours

PHY 520, 559, 570, 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, 502, 510, STA 270.

Supporting Course Requirements 29 hours

CHE 111, 112, 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 course categories 03, 04, 14, 15, 16 and 21. Refer to Section Four of this *Catalog* for details on the General Education and University requirements.

University Requirements 4 hours

ASO 100 and three hours of restricted electives.

Free Electives 25 hours

Total Curriculum Requirements 128 hours

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

PHYSICS/TEACHING (B.S.)

CIP Code: 40.0801

Major Requirements 30 hours

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

Minor Requirements 10-21 hours

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

Supporting Course Requirements 22 hours
CHE 111, 112; MAT 124, 224; BIO 100, BIO 102, or NAT 101; and CSC 104 or CIS 212.

Teacher Education Requirements 31 hours
EDF 103, 203, EPY 319, 413, SED 401, ESE 451, 490, 499.

General Education Requirements 31 hours
Standard General Education program, excluding course categories 03, 04, 13, 14, 15, 16 and 21. Refer to Section Four of this *Catalog* for details on the General Education and University requirements.

University Requirements 4 hours
ASO 100 and three hours of restricted electives.

Total Curriculum Requirements 128-139 hours

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

Associate Degree

SCIENCE FOR ENGINEERING (A.S.)

CIP Code: 14.999.01

Major Requirements 18 hours

PHY 201, 202; MAT 124*, 224.

Supporting Course Requirements 35 hours

MAT 225; three hours Approved Programming Language*; CHE 111*, 112*; ASO 100; ENG 101* and 102* or 105*; TEC 190, PHY 221, or CHE 361, three hours from each of Areas II* and III*; four hours restricted electives.

Free Electives 11 hours

Chosen with advisor to satisfy general education and major requirements at the chosen engineering school.

Total Curriculum Requirements 64 hours

*Courses meeting general education requirements.

Minors

MINOR IN PHYSICS

A student may complete a minor in physics by taking PHY 201, 202, and a minimum of eight additional hours of physics numbered 300 and 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 M. Adams
(859) 622-1105
Cammack 127

Faculty

J. Batts, D. Beal, T. Botts, R. Brubaker, M. Bundy, C. Clement, R. Enzie, S. Falkenberg, V. Falkenberg, J. Flanagan, D. Florell, L. Koppes, R. Lorden, D. Mercer, R. Mitchell, R. Perrine, M. Wells, S. Wilson, and M. Winslow

Baccalaureate Degree

PSYCHOLOGY (B.S.)

CIP Code: 42.0101

- Major Requirements 37 hours**
 PSY 200, 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: PSY 349 (2 hours) and 449 (1 hour) or 401 or 400
- 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 349, 407, and 449 may not be used as electives.) A minimum grade of "C" is required in all courses counted toward the major.
- General Education Requirements 51 hours**
 Standard General Education program. Refer to Section Four of this *Catalog* for details on the General Education and University requirements.
- University Requirements 4 hours**
 ASO 100 and three hours of restricted electives.
- Free Electives 36 hours**
- Total Curriculum Requirements 128 hours**

SECOND MAJOR IN PSYCHOLOGY

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

Minors

MINOR IN PSYCHOLOGY

Requirements for a minor are PSY 200 plus electives in PSY to total 18 hours.